KG
11365
591

KG 11365.591

KG 11365.591

HARVARD
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July 3, 1908 (Friday)

$\underline{u}$ Herculis Phot T 9-inch caps
W obs. Thompson un

17 - 12 - 53.2
14 58.

2 14
12

9 46
4

9 50

July 3, 1908

8-5-18

Index left.

1986 ← Var di

238.1

22.0	39.5	
53.3	31.3	
	70.8	-2.48
202.5		
233.7	31.2	-2.44
15.9		
57.9	42.0	
	73.2	-2.40

Index right.

108.4		
147.6	39.2	
297.6		
322.4	24.8	
	64.0	-2.71
~~322.4~~		
115.2		
141.7	26.5	-2.72
291.2		
328.0	36.8	
	63.3	-2.74
		~~-2.68~~
		-2.58

8	16	47
	22	5.
8	11	2.
+5		-34.
13	10	28

8126.5 489

July 3, 1908

Same again.
Index right. A.

108.8
8 20 45 148.0 39.2 ✓
296.0
321.0 $\frac{25.0}{64.2}$ ✓ ✓ −2.71 ✓

289.2 ~~116.6~~
327.7 ~~140.8~~ 38.5 ✓ −2.74 ✓
115.9
139.7 $\frac{23.8}{62.3}$ ✓ ✓ −2.77 ✓

Index left. B:
16.2
56.0 39.8 ✓
205.6 24.0 ✓
229.6 $\overline{63.8}$ ✓ −2.75 ✓

21.5
51.3 29.8 ✓ −2.76 ✓
105.8 32.2 ✓
238.0 $\overline{62.0}$ ✓ −2.79 ✓

−2.75 ✓

8 44 25
65 10. ✓
8 32 35. ✓
45 −34. ✓
13 32 1. ✓
8126.5639 ✓

July 3. 1908.

Index left. B.

18.4
8 53 20 56.7 38.3 ✓

205.2 26.0 ✓
231.2 64.3 ✓ -2.70 ✓
~~25.0~~

25.0 26.2 ✓
51.2 -2.69 ✓
198.0 38.6 ✓
236.6 64.8 ✓ -2.68 ✓

Index right. A.

290.7 37.3 ✓
328.0
115.2 25.5 ✓
140.7 62.8 ✓ -2.76 ✓

295.6 26.4 ✓
9-0-47 322.6 -2.71 ✓
11 4 7 ✓ 106.6 39.1 ✓
8 57 4. ✓ 145.7 65.5 ✓ -2.66 ✓
+5 -34. ✓
13 56 30. ✓ -2.70 ✓
8126.5809 ✓

July 3. 1902.

u Ophiuchi Phot T Trunch cap
W obs Thompson

17 9 +1.4°
16 22
---
0 47
12
---
11 13

For measurements see next page

July 3. 1904.

Index left
90.0
9 28 20 167.0 77.0
278.4
334.2 55.4
132.4

Slowly moving clouds have just come into this region, further move from above set.(alone considered) the variable is pretty well up in brightness so that observations on this star abandoned for ~~the~~ night

July 3. 1908.

Doublestar (new list) = Burnham Cat. 10012. Phot R. W ob. Thompson rec.

20 8 +6.2
16 47
3 21
12
8 39

P.A. 193° dis. 44". Mags. 6.8, 7.0.

Index right and above

182.9 ← North + botr. dis.
9-51-47 283.2 100.3
9.7
87.0 77.3
177.6 −0.05

187.2 79.6 +0.02
266.8
356.3 105.2
101.5 184.8 +0.09
175.2

Index left + below.

270.0 98.7
(∴ North ~~+ botr.~~ 8.7
was botr. by 106.0 69.5
measts.) 175.5 168.2 −0.22

9 56 4.
+5 −34. 289.8 65.5 −0.28
14 55 30. 355.3
10 0 20
8126.6218 91.2 96.8
11 7. 188.0 162.3 −0.34 mean −0.13

July 3. 1908.

Double star (new list) # Burnham's Cat 10216.

Phot R. M obs. Thompson rec.

20 21 — 2.5
17 15
2 56
12
9 4 Clouds.

M's watch used for times. Watch 34 secs fast.

Stopped by clouds

L. P. P.

July 6, 1908 (Monday)

u Herculis, Phot T 7-inch cap.
Mob. Thompson rec.

17 12 + 33.2
14 55

2 17
12

9 43

For measurements see next page

July 6, 1908.

— Herculis Phot T Fundcap.
Mok Thompson

8 4-25

Index left B.

18.8 ← Nadir
54.6 35.8

203.0
231.5 28.5
64.3 -2.70

24.6
52.5 27.9 -2.66

198.2
236.6 38.4
66.3 -2.63

Index right. A.

288.9
330.4 41.5
113.6
141.6 28.0
69.5 -2.52

296.6 26.0 -2.62
322.6
108.7
146.8 38.1
64.1 -2.71

8 11-40

16 5.
8 8 2.
+5 -48.

13 7 14.
8129.5 466

-2.64

July 6, 1908.

Index right. A.

8 14-20

288.5
326.8 38.3
115.8 24.2
140.0 62.5 −2.77 ✓

297.2 24.8 −2.73 ✓
322.0
107.5
147.3 39.8
64.6 −2.69 ✓

Index left. B.

198.3
237.8 39.5
25.2 25.3
58.5 64.8 −2.68 ✓

206.5 24.3 −2.68
230.8
16.0 40.7
56.7 65.0 −2.68 ✓

−2.70

8-20-20
34 40. ✓
8 17 20. ✓
+5 −48 ✓
13 16 32. ✓
8/29.55 32 ✓

S.T. 15 55m
H.A. ~~1h20~~ – 1h 20m.
R.A. 1h 32.5 Nov B.
Dec +32.5
Sprocket – 4.5 B
– 3.5 b.

L. P. P.

July 6, 1908

ξ Boötis.

1	14	46	+19.7
	16	10	
	-1	24	

Components not separated with ordinary eye-piece. Measurement abandoned for the night

July 6, 1908

U Sagittae

19 12 + 19.3
16 38
2 34
12
9 26

Index right A.
2735 Vaich
9 39 45 345.5 72.0 ✓
104.4
153.4 49.0 ✓
121.0 ✓ −1.17 ✓

281.5 54.3 ✓
335.8 −1.12 ✓
92.0 71.3 ✓
163.3 125.6 ✓ −1.07 ✓
~~Index~~ left. B.
179.4
257.0 77.6 ✓
9.0
67.0 58.0 ✓
135.6 ✓ −0.86 ✓

197.2 52.8 ✓ −0.92 ✓
9 43 5. ✓ 244.0
+5 −48. ✓
94 6 25 14 42 17. ✓ 359.0 76.6 ✓
86 10 ✓ 8129.6127 ✓ 75.6 129.4 ✓ −0.99 ✓
9 43 5. ✓
mean −1.02

July 6, 1908
sameagan
Index left B.

9 49 24
180.3
254.1 73.8 ✓
11.5
653 53.8 ✓
127.6 ✓ -1.03 ✓

193.0
243.2 50.2 ✓ -1.06 ✓
0.0
74.0 74.0 ✓
124.2 ✓ -1.10 ✓

Index right. A.
89.7
167.4 77.7 ✓
282.1 53.9 ✓
336.0 131.6 ✓ -0.95 ✓

104.2
154.0 49.8 ✓ -1.05 ✓
272.7 72.1 ✓
344.8 121.9 ✓ -1.15 ✓

mean -1.06 ✓

9-55-30
10 4 54 ✓
9 52 27 ✓
+5 -48 ✓
14 51 39 ✓
8129.6191 ✓

S.T 17 10
~~H~~ A -2h 0m
P.A 305.5 Nr B.
Dec +18.6°
Sprocket -7.5 B.
-7.0 b

July 6, 1908

Double star. (new list.) = Burnham's Cat. 10216. Phot. R. W. obs.

20 21. — 2.5 Thompson rec.
17 23
2 58
12
9 2

20 21
17 20
2 01
12
9 1

P.A. 189°; Dist. 60".

For meas'ts, see fol. pages.

July 6, 1908.

175.0

10-25-20 285.5

3.0

95.8

183.7

Wrong image dis. in above measts.
Now start on p. 17.

July 6. 1908

Index left + below. B.

282.9 North + both dis

10 26 20. ±

358.5
101.3 75.6
179.2 77.9
153.5 0.51

286.5
354.2 67.7 0.60
102.5
179.7 77.2
144.9 0.68

Index right + above. A.

197.2
268.2 71.0
16.5
83.3 66.8
137.8 0.82

198.5
266 2 67.7 0.80
14.5
87.2 72.7
140.4 0.77

mean 0.70

10 30 20

10 28 20.
+5 -48.
15 27 32.
8129.6441

W's watch used for times
Watch 48 secs secs.

L. P. P.

July 8, 1908 (Wednesday)

u Herculis Phot T 7-inch cap.
Wob. Thompson rec.

17 12 + 33.2
15 5
2 7
12
9 53

For meas'ts, see fol. pages.

July 8, 1908.

Index left.

19.4 Nar dis

8-4-5 57.6 38.2

201.3 31.7

233.0 69.9 2.51

Twilight too strong.
New start on p. 20.
Measts. on pp. 20 + 21.

June 8, 1908

Index right A.

~~8-15-0~~ 289.4
8-15-0 327.5 38.1
115.4
140.9 25.5
63.6 -2.73

295.0
321.8 26.8 -2.71
109.3 37.7
147.0 64.5 -2.69

Index left. B.
196.8 40.5
237.3
25.8 24.2
50.0 64.7 -2.69

206.3 -2.66
8-21-50 231.2 24.9
36 50. 16.7 41.8
8. 12 25. 58.5 66.7 -2.62
+5 -1 9.
13 17 16. -2.68
8 13 1. 5 5 37

July 8, 1908
surmagan
Index left B.

201.0
8-29-50 ~~8-29-50~~ 236.2 35.2 ✓

24.4 25.6 ✓
50.0 60.8 ✓ -2.83 ✓

205.6 31.0 ✓ -2.64 ✓
236.6
17.1 40.9 ✓
58.0 71.9 ✓ -2.44 ✓

Index right. A.
108.3
147.5 39.2 ✓

296.0 24.7 ✓
320.7 63.9 ✓ -2.72 ✓

116.6 24.3 ✓ -2.73 ✓
8-38-0 140.9
289.6 38.8 ✓
328.4 63.1 ✓ -2.74 ✓

67 50.
8 33 55.
+5 -1 9.
13 32 46. -2.68 ✓
8131.5645- ✓

In group above, altitude high & emergent pencils gave trouble. Observer had to sit in cramped position in a chair on account of high altitude, which probably accounts for the large difference in first two sets.

July 8. 1908.

ξ Boötis Phot T Finchcap
W ob. Thompson rec.

14 46 + 19.7
16 20
1 34

Index right A.

9-8-50

1899
248.4 58.5
7.5
67.1 59.6 75.3
118.1 -1.23

188.4 52.0 -1.32
240.4
8.2
66.2 58.0
110.0 -1.42

Index left: B.
104.2 50.5
154.7
280.0
334.5 54.5
105.0 -1.54

102.4 51.5 -1.57
153.9
283.6
334.5 50.9
102.4 -1.60

-1.48

9 16 5
24 55.
9 12 28.
+5 -1 9.
14 11 19.
8/31. 5912

July 8, 1908.

S.T. 16 42.
H.A. +1h 54m
Dec +19.9
P.A. 92.5 Ver B.
Sprocket.

Sprocket not read but region thoroughly identified

Comp. Star for ξ Bootis (Susp. by Barr of varibility) = +19° 2801 (6.3).

July 8. 1908.

R X Herculis Phot. II.
W ob. Thompson rec.

18. 16 + 12.0
16 50
1 26
1 2
1 0 34

Index right & below A.
192.7 van dis
245.6 52.9
18.4
55.0 36.6
89.5 −1.93

201.0
238.6 37.6 −1.92
10.7
63.6 52.9
90.5 −1.90

Index left & above B.
98.5
156.6 57.5
287.5
326.5 39.0
96.5 −1.74

108.6
147.4 38.8 −1.69
274.0 61.9
335.9 100.7 −1.64

−1.80

9 43 10

9 50.7
93 17.
9 46 38.
+5 −1 9.
14 45 29.

8131.6149

July 8, 1908.

Index left + above. B.

96.6 61.0 ✓
157.6
284.8 44.2 ✓
329.0 105.2 ✓ −1.53 ✓

953-0

107.5 41.3 ✓ −1.60 ✓
148.8
277.0 58.0 ✓
335.0 99.3 ✓ −1.67 ✓

Index right + below. A.

11.2 52.3 ✓
63.5
201.5 36.5 ✓
238.0 88.8 ✓ −1.95 ✓

19.4 37.1 ✓ −1.91 ✓
56.5
191.0 54.4 ✓
245.4 91.5 ✓ −1.87 ✓

10-0-2
113 2.
9 56 31. ✓
85 -1 9. ✓
14 55 22. ✓
8/31.6 2/8 ✓

−1.76 ✓

July 8. 1908.

Index right + below. A.

9.0
10 8 40 62.9 53.9
199.2
238.2 39.0
177.7 92.9 −1.84
~~57~~
57.0
185.5 85
246.5
274.4

Index left + above. B.

338.0 67.2
105.2
248.2 37.0
285.2 104.2 −1.55

276.6 ~~327.7~~ 61.9 −1.54
~~10 11 45~~ 338.5 ~~94.7~~
10. 14 20 105.2 ~~+5~~ 43.3
23 0. 148.5 105.2 −1.53
10 11 30.
+5 −1 9.
15 10 21. −1.69

8131.6322

Something wrong in 2d. set above. Probably circle wrongly read. This set cannot be used.

July 8. 1908.

Index left + above. B.

	285.6	42.2		
10 17 35	327.8			
	95.5	64.5		
	160.0	106.7	−1.49	
	275.8	62.8		−1.50
	338.6			
	104.6.	43.4		
	148.0	106 2	−1.51	

Index right + below. A.

	189.8	55.8		
	245.6			
	17.5	39.3		
	56.8	95.1	−1.78	
	198.9	40.6		−1.71
10-28-15	239.5			
45 50.	5.1	59.9		
10 22 55.	65.0	100.5	−1.64	
+5 −1 9.				
15 21 46.				
8131.6402				−1.60

July 8. 1908.

Index right + below. A.

189.0 59.8
248.8

10-31-15

16.2 41.5
57.7
101.3 -1.62

199.0 40.2
239.2 -1.61

5.7 62.1
67.8
102.3 -1.60

Index left + above B.

93.7 66.8
160.5

285.0 45.1
330.1
111.9 -1.37

104.6 43.9 -1.43
148.5

275.5 63.2
338.7
107.1 -1.49

10 39 35
7 0 50
10 35 25.
+5 -1 9.
15 34 16.

4131.6488

S.T. 17 2 -1.52
H A -0 24
P A 330 Nr A
Dec +12.1
Sprocket -5.5 A
-4.5 B
-4.0 C

L. P. P.

W's watch used for time
Watch~~es~~ 1m 9 sec fast

July 9, 1908. (Thursday).

u Herculis Phot T 7-inch cap
W obs. Thompson rec

17 12 +33.2
15 10
2 2
12
9 58
17 12
15 30
2 42
12
10 18

For measurements see next page.

July 9, 1908.

Index left B.

8 - 9 - 0

18.4
545 36.1 ✓
204.2
231.3 27.1 ✓
63.2 ✓ -2.74 ✓

25.0 26.0 ✓ -2.70 ✓
51.0
198.0 39.2 ✓
237.2 65.2 ✓ -2.67 ✓

Index right A.

289.6 38.1 ✓
327.7
115.5 25.4 ✓
140.9 63.5 ✓ -2.73 ✓

296.0 25.5 ✓ -2.76 ✓
321.5
110.5 36.1 ✓
146.6 61.6 ✓ -2.80 ✓

mean -2.73 ✓

8 - 16 - 50

	25	50. ✓
4	12	55. ✓
+5		-16. ✓
13	12	39. ✓

4132.5504 ✓

July 9, 1908.

Index right A.

8-20-10

288.7
328.4 39.7
114.8
140.2 25.4
65.1 -2.67

294.9 27.2 -2.68
322.1
108.8 37.5
146.3 64.7 -2.69

Index left B.

198.6 36.8
235.4
24.6 26.4
51.0 63.2 -2.74

204.4 26.3 -2.77
230.7
18.8 35.4
54.2 61.7 -2.80

8 26-20
46 30.
8 23 15.
45 -16.
13 22 59.
8/32,5576

mean -2.72

July 9, 1908.

ξ Boötis Phot T 7 inch cap

Obs. Thompson rec (Susp. by Barr of variability).

14 46 +19.7
16 20
1 34

Index right + above A. S. V. dir.,

ξ 9.0
9-5+20 65.0 56.0 ✓

191.0
246.7 55.7 ✓
111.7 ✓ −1.32

10.4
61.8 51.4 ✓ −1.41 ✓

190.4
248.0 57.6 ✓
109.0 ✓ −1.44 ✓

Index left + below: B.

280.7 55.3 ✓
336.0

101.7
154.1 52.4 ✓
107.7 ✓ −1.47 ✓

280.6 54.4 ✓ −1.51 ✓
335.0

102.5
152.6 50.1 ✓
104.5 ✓ −1.55 ✓

9-11-14
16 34. ✓
9 8 17. ✓
+5 −16. ✓
14 8 1. ✓
8132.5889

Same comp. star as on July 8. −1.46 ✓

Sprocket-readings etc omitted, as observer wished to set immediately on RX Herculis. Region, however, thoroughly identified before beginning.

July 9, 1908.

~~No I.~~

R X Herculis. I.

18 16
16 45
1 31
12
10 29

Index left B.

97.8
9 27-5 158.5 60.7
285.0
336.8 51.8
+ 112.5 −1.36

106.5
150.2 43.7 −1.46
275.5
336.2 60.7
10.44 −1.55

Index right A.

9.5
63.6 54.1
198.3 40.1
238.4 94.2 −1.80

18.1 38.7 −1.74
9-35-30 56.8
62 35. 185.8 60.4
9 31 18. 246.2 99.1 −1.68
+5 −16.
14 31 2. −1.60
8132.6049

~~No II~~

July 9 1908.

Index right A.

8.5
9 37 40 65.9 57.4 II
200.3
237.6 37.3
94.7 -1.79
[illegible]

16.5
55.7 39.2 -1.72
186.5
247.7 61.2
100.4 -1.65

Index left. B.

274.8
334.2 59.4
105.8
146.8 41.0
101.2 -1.63

285.1
329.4 44.3 -1.61
96.9
155.5 58.6
102.9 -1.59

-1.66

9-45-19
22 59.
9 41 30.
+5 -16.
14 41 14.
2132.6119

July 9 1908.
Index left B.

III

9-4715

275.7 61.7
337.4
106.5
147.5 41.0
102.7 −1.59
~~28~~

285.3 −1.59
328.2 42.9
96.8
156.6 59.8
102.7 −1.59

Index right A.
189.3 55.9
245.2
18.1
54.9 36.8
92.7 −1.84

199.0 −1.86
237.3 38.3
11.0
64.4 53.4
91.7 −1.87

−1.72

9 5542
104 57.
9 52 28.
5 −16.
14 52 12.
8132.6195+

~~Alo IV~~

July 9, 1908.

10-3-30

Index right. A.

IV

191.8 51.2
243.0
17.8
55.0 37.2 / 88.4 −1.96

201.1 35.7 −2.00
236.8
11.8
61.8 50.0 / 85.7 −2.03

Index left. B.

96.6 58.9
155.5
285.8
326.9 41.1 / 100.0 −1.66

106.8 41.2 −1.68
148.0
278.0
335.0 57.0 / 98.2 −1.70

−1.84

10-11-10

14 40.
10 7 20.
+5 −16.

15 7 4.
8132.6300

July 9, 1908.

Index left B.

V.

97.5 58.1 ✓
10-17-55 155.6
286.8 39.3 ✓
326.1 97.4 ✓ −1.72 ✓

107.4 41.0 ✓ −1.72 ✓
148.4
278.8 56.2 ✓
335.0 97.2 ✓ −1.73 ✓

Index right A.

13.0 50.2 ✓
63.2
200.8 35.2 ✓
236.0 25.4 ✓ −2.04 ✓

19.4 36.4 ✓ −2.07 ✓
10-26-20 55.8
195.2 46.8 ✓
242.0 23.2 ✓ −2.10 ✓

44 15. ✓
10 22 2. ✓
+5 −16. ✓
15 21 52. ✓ S.T. 17 54 −1.90 ✓
2132.6402 ✓ H A − 0h 31m
P A 332.5 New B
Dec +12.1
Sprocket −5.5 A L.P.P.
−4.5 B
−40.6

W's watch used for time—watch 16 secs fast.

July 10, 1908 (Friday)

u Herculis Wob. Thompson sec
Phot T Inch cap.

17 12 +33.2
15 11
2 1

19
9 59

17 12
15 48
2 24
12 40
36

For results, see next page.

July 10, 1908

Index left. B. ← Var. dis.

8 27 20

19.5
544 34.9
2050
2297 24.7
59.6 −2.87

24.0 −2.83
499 25.9
198.2 36.1
2343 62.0 −2.79

Index right. A.

290.0 39.6
3296
115.3 24.6
1399 64.2 −2.71

295.0 −264
321.6 26.6
107.0 41.4
148.4 68.0 −2.57

Mean −2.74

8 36-40
64 0.
½ 32 0.
+5 −25.
13 31 35.
8133.5636

Measurements made through gaps in clouds and also through some thin clouds; but the greatest possible care exercised, (The measurements being made slowly and when the images were steady) and group considered good.

over

July 10, 1908

As clouds became thicker after group, the images were not set and sprocket and so forth were not read, but region thoroughly identified before beginning

July 10, 1908

ξ Boötis. (Susp. of var. by Barr.)

W obs. Thompson rec

Phot T 7inch cap

14 46 +197
16 42
7 58

Indexnight + above

189.0 ← S.V. dis.
9-21-55 247.4 58.4
14.5 44.3
58.8 102.7 −1.59

193.4
241.1 47.7 −1.56
7.8
65.6 57.8
105.5 −1.52

~~91.4~~ 69.3
~~760.4~~
279.4 61.6
341.0 130.9 −0.96

~~100.3~~
9 29 0 ~~151.6~~ −1.02
271.0 70.0
341.0
102.4 49.3 −1.21
151.7 119.3

Reject above group. See page 43 −1.32

July 10, 1908.
same again.

Index left below. B.
S.V. dir.

9 43 48

272.0
340.2 68.2
102.2
154.2 52.0
120.2 −1.19

280.[illegible] 53.3 −1.26
333.5
97.6
158.1 60.5
113.8 −1.33

Index right & above. A.
189.3 57.4
246.7
15.5
56.0 40.5
97.9 −1.71

195.8 42.6 −1.66
238.4
7.4
66.3 58.9
101.5 −1.62

9 51 50
9 5 30.
9 47 45.
+5 −25.
14 47 20.
8133.6162

Same comp. star as on July 8. −1.46

S.T. 17 31
H A +2h 44m
Dec +19.9°
P.A. 272.6 NdB.
Sprocket. −6.5 B
−5.5 b

July 10, 1908

The group on page 41 rejected as the observations were made through quite continuous masses of clouds of varying density, the images, much of the time at setting, being almost invisible and images while faint seemed to be varying continually so that equilizations were almost impossible; Hence a second group was taken on page 42, the images in that group being bright and steady and the sky practically clear.

Double star (new list) = Burnham's Cat.
6040. Phot. R. Wds. Thompson etc.

12 2 +56.1
17 42
— 5 40

PA 81.7° dist. 22" mags. 7.0, 7.4.

For measts. see next page.

July 10, 1908

10 23-35

~~190.0~~
~~273.4~~
~~13.5~~
~~57.0~~

Index left + below.

192.6
271.3 78.7 ✓ Pr. + both dis.
8.8
91.0 82.2 ✓
160.9 ✓ 0,36 ✓

190.0 80.0 ✓ 0,40 ✓
270.0
10.0 76.4 ✓
86.4 156.4 ✓ 0,45 ✓

Index right + above.

102.0 816 ✓
183.6
281.4 78.1 ✓
359.5 159.1 ✓ 0,40 ✓

101.0 821 ✓ 0,39 ✓
183.1
281.4 78.1 ✓
359.5 160.2 ✓ 0.38 ✓

0.40 ✓

10 35-0
58 35. ✓
10 29 18. ✓
+5 -25. ✓
15 28 53. ✓
8133.6450 ✓

July 10, 1908

As circle was evidently read wrongly in one of the settings ~~on pv~~ in first set on the previous page, this set was rejected and another set taken.

Ws watch used for time. Watch 25 sec fast

L. P. P.

July 11, 1908 (Saturday)

u Herculis. Phot T. 7-inch cap. →
W obs. Thompson rec.

17 12 + 33.2
15 15
1 57
12
10 3

17 12
15 25
1 47
12
10 13.

17 12
15 38
1 52
12 60
10 18

For results, see next page.

July 11, 1908

Index left B.

14.5 Var dis.

8= 6 -20

51.7 366 ✓

205.6

229.0 23.4 ✓

60.0 ✓ -2.86 ✓

245.

49.0 24.5 ✓ -2.84 ✓

198.7 36.8 ✓

235.5 61.3 ✓ -2.81 ✓

Index right A.

289.7 40.7 ✓

330.4

115.0 25.4 ✓

140.4 66.1 ✓ -2.64 ✓

296.5 24.3 ✓ -2.66 ✓

8-17- 10

320.8

23 30. ✓

105.7 40.5 ✓

8 11 45. ✓

146.2 64.8 ✓ -2.68 ✓

+5 -28 ✓

13 11 17. ✓ -2.75 ✓

8134.5 49.5 + S T 16-14

A H. - 0h 58

Dec +32.5

P.A. 133.0 Ver B

Sprocket - 4.5 B

- 3.5 T

July 11, 1908

ξ Boötis

W.D. Thompson rec Phot T 7-inch cap

14 46 +19.3
14 30
1 44

For measurement see next page

Same comp. star as on July 8.

July 11, 1908.

Index right + above. A.

9 6-30

1882
2443 ← S. V. dis.
8.5 ~~[illegible]~~ 59.1
65.5 ~~[illegible]~~ 57.0
~~[illegible]~~ 116.1 −1.28

1882
2468 58.6 −1.27
8.3 58.4
667 117.0 −1.26

Index left + below. B.

281.5
335.2 53.7
100.7 52.7
1534 106.4 −1.50

281.0
3349 53.9 −1.56
103.7 47.3
151.0 101.2 −1.63

9 15 40
22 10.
9 11 5.
[illegible] −28.
14 10 37.
8134.5907

S. T. 17 51 −1.42
H. A + 2h 9m
Dec +19.9°
P. A. 92.5 Nr B
Sprocket −6.5 B
−5.5 C

July 11, 1908

Fourth type star +59°—2810
Phot T W obs. Thompson sec. (9.5 in cap)

24 1 +58.3
17 10
6 51
12
5 9

For measts. see next page.

July 11, 1908

Index left + above β.

82.6 ← 4th. type div.

9-57-57

171.5   88.9 ✓

253.6   103.4 ✓

357.0   192.3 ✓

167.7 ✓   +0.23 ✓

73.6   105.0 ✓   +0.20 ✓

178.6

265.4   84.0 ✓

349.4   189.0 ✓

171.0 ✓   +0.17 ✓

Index right + below. A.

357.0   85.6 ✓

82.6

162.9   108.1 ✓

271.0   193.7 ✓

~~271.0~~   166.3 ✓   +0.26 ✓

345.0   105.0 ✓   +0.26 ✓

90.0

174.0   88.0 ✓

262.0   193.0 ✓

167.0 ✓   +0.25 ✓

+0.23 ✓

106-10

124 7. ✓

10 2 4. ✓

+5 -28 ✓

15 1 36. ✓

8134.6261 ✓

S.T. 17 42

H.A. -6h 7m

Dec +59.2°

P.A. 260 New B

Sprocket -0.5

+0.5

July 11, 1908
Double star (new list) = Burnham's Cat
11772. Phot R AW. ob. Thompson rec. 9.5 in. cap

22 25 +57.8
18 0
4 25
12
7 35

P.A. 192°.0 dist 40"

For measurements see next page

July
June 11, 1908

Index below, B.
120.0 Pr. Nor. + bttr. dis.
10-29-55 161.1 41.1 ✓
302.8
342.2 39.4 ✓
80.5 ✓ 2.18 ✓

120.0 41.3 ✓
161.3 2.14 ✓
300.2 41.8 ✓
342.0 83.1 ✓ 2.10 ✓

Index above, A.
31.0 40.0 ✓
71.0
209.0 43.0 ✓
252.0 83.0 ✓ 2.11 ✓

327 38.7 ✓
10-36-5 71.4 2.18 ✓
66 0. ✓ 210.6
10 33 0. ✓ 250.5 39.9 ✓
+5 -28. ✓ 78.6 ✓ 2.24 ✓
15 32 32. ✓ 2.16 ✓
8134.6476 ✓

W's watch used for times. Watch 28 secs fast.

L. P. P.

July 13, 1908 (Monday)

u Herculis Phot T 7-inch cap.
W obs. Thompson rec.

17 12 +32.3
15 20
1 52
12
10 8

17 12
15 55
1 47
12
43

8 50 Clouds have now become much more abundant. Sky now pretty cloudy every where.

July 13, 1908

Index left B.

17.5 Nardis
54.5
200.0 37.0
231.5 31.5
68.5 −2.56

21.9
51.7 29.8 −2.56
197.9 34.9
236.8 64.7 −2.55

Index right. ct.
290.9 36.1
327.0
112.8 27.4
140.2 63.5 −2.73

272.6 27.4 −2.69
320.0
107.5 34.5
146.0 61.9 −2.65

−2.63

7-59 40

8-6-4 8
6 28.
8 3 14.
+5 −30.
13 2 44.
8136.5 4363

M's watch used for times; watch 30 secs fast

July 13. 1908.
Index right A.

8-19-45

290.9
325.8 34.9
113.6
140.3 26.7
61.6 −2.80
~~294.3~~
~~521.2~~
~~108.8~~
145.0

−2.76

294.3 26.9
321.2
108.8 37.1
145.9 64.0 −2.71

Index left. B.
196.3 40.0
236.3
24.0 27.0
51.0 67.0 −2.61

202.1 −2.60
229.1 27.0
15.4 40.6
56.0 67.6 −2.59

8-26-10
45 55.
4 22 58.
+5 −30.
13 22 28.
+136.5572

−2.62

ST 16 17
HA 0h 57m
Dec +32.5
PA 135.0 Var B
Sprocket −4.5 B
−3.5 B

July 13, 1908.

~~Some twilight~~
A little twilight at beginning of first group. Measurements of both groups made through more or less light clouds, but the greatest possible care exercised and measurements considered good

L. P. P.

July 15, 1908 (Wednesday).

u Herculis Phot T 9-inch cap.
W.b. Thompson rec
17 12 +33.2
15 32
1 40
12
1 0 20

Clouds

July 15, 1908

Index left B. Var. Leo.

8-1-20

197.9
233.6 35.7 ✓
23.7
50.0 26.3 ✓
62.0 ✓ -2.79 ✓

202.2 27.6 ✓ -2.66 ✓
229.8
16.9 41.7 ✓
58.6 69.3 ✓ -2.53 ✓

Index right. A.

107.4 36.8 ✓
144.2
294.5 24.6 ✓
319.1 61.4 ✓ -2.81 ✓

113.6
138.5 24.9 -2.76 ✓
288.0
327.0 39.0
63.9 -2.72 ✓

8-9-15

10 35. ✓
8 5 -18. ✓
+5 +17. ✓
13-5 - 35 ✓
8138. 5455+ ✓

-2.71 ✓

July 15, 1908

Index right A.

8-11-46

187.2
146.2 39.0
295.5
318.5 23.0
62.0 -2.79

115.5 24.0
139.5 -2.74
286.0 40.6
326.6 64.6 -2.69

Index left. B.

15.6
56.5 40.9

203.6 23.4
227.0 64.3 -2.70

24.8 25.1 -2.60
49.9

8-18-0
29 40.
& 14 50.
+5 : +17.
13 15 7.
&132.55 22

194.0 44.9
238.9 70.0 -2.51

S.T. 16 18 -2.67

~~H~~ A -0h 55m

Dec +32°.5

P.A. 131.5 Ner B.

Sprocket -4.5 B
-3.5 b

July 15, 1908

Altitude high; troubled also by clouds more or less but great care exercised, and general result considered good

R

R. V. Ophiuchi

17 19 +7.8
16 52
0 27
12
11 33

For measts. see fol. pages.

July 15, 1908

A. Index above comp at dis.

9-26-47

7.5
63.5 56.0

195.1 41.4
236.5 97.4 +1.72

14.8 41.7 +1.67
56.5

185.5 59.6
245.1 101.3 +1.62

Index below B.

277.7
335.5 57.8

105.7 40.5
146.2 98.3 +1.70

287.2 40.8 +1.69
328.0
98.9 58.1
157.0 98.9 +1.68

93750
6 4 37.
9 32 18.
+5 +17.
14 32 35.
8/38.6060

+1.68

July 15, 1908

Index below B.

9-40-45

277.1
336.0 58.9 ✓

107.2
145.4 38.2 ✓
97.1 ✓ +1.73

286.5 +1.70
326.8 40.3 ✓

96.1
155.2 59.1 ✓
99.4 ✓ +1.67

Index above A.

183.2
249.2 66.0 ✓

16.0
58.2 42.2 ✓
108.2 ✓ +1.46

192.9 +1.42
240.5 47.6 ✓

9-50-5

90 50. ✓
9 45 25. ✓
45 +17. ✓
14 45 42. ✓
8138.6151. ✓

2.9
67.5 64.6 ✓
112.2 ✓ +1.37

+1.56

July 15, 1908

Index above A.

9-53-55
9

184.0
247.2 63.2
139
60.8 46.9
110.1 +1.42

191.8
241.8 50.0 +1.38
6.2
70.1 63.9
113.9 +1.33

Index below. B.

92.8
160.2 67.4
283.1
328.1 45.0
112.4 +1.36

105.0
156.5 45.5 +1.40
275.5
339.2 63.7
109.2 +1.44

+1.39

10 4 57
11 8 52.
9 59 26.
+5 +17.
14 59 43.
8138.6248

July 15, 1908

Index below. B.

10-8-30

93.9	66.1 ✓		
160.0			
283.0	46.8 ✓		
329.8	112.9 ✓	+1.35	
163.2	48.8 ✓		+1.32
152.0			
272.0	66.8 ✓		
338.8	115.6 ✓	+1.29	

Index above A.

358.5			
71.2	72.7 ✓		
190.8	53.0 ✓		
243.8	125.7 ✓	+1.07	
11.1	49.0 ✓		+1.06
61.0			
174.4	77.8 ✓		
252.2	~~127.8~~ 126.8 ✓	+1.05	

+1.19

10-16-50

	25	20. ✓
10	12	40. ✓
+5		+17. ✓
15	12	57. ✓

8138.6340 ✓

Feb 15, 1908

Index above. A.

359.8
71.0 71.2

10 21 0 ±

189.8
242.9 53.1 / 124.3 +1.10

10.8
61.0 50.2 +1.12

181.9
254.3 72.4 / 122.6 +1.14

Index below. B.

271.3
340.5 69.2

101.7
150.6 48.9 / 118.1 +1.23

280.1
333.0 52.9 +1.17

10-28-10
49 10.
10 24 35.
+5 +17.
15 24 52.
2132.6423

91.0
162.0 71.0 / 123.9 +1.11

+1.14

July 15, 1908

Index below B.

Index below

269.0 72.8

10-30-42 341.8

102.8

150.3 47.5

120.3 +1.19

279.7 54.4 +1.10

334.1

90.5

164.4 73.9

128.3 +1.01

Index above. A.

178.0

250.6 72.6

7.2

64.5 57.3

129.9 +0.98

188.8

244.7 55.9 +0.94

10-37-35

356.6

68 17.

74.3 77.7

10 34 8.

133.6 +0.90

+5 +17.

15 34 25.

+1.02

2130.6489 S T 18 29

H, A +1h 1m

Dec 7°.8

PA 286 Ver B

L. P. A.

Sprocket − 2.5 B

− 1.5

W's watch used for time. Watch 17secs slow

July 16/1908 (Thursday).

u Herculis Phot T 7-inch cap
W obs. Thompson rec

17 12 +33.2
15 42
1 30
12
10 . 30

For measurements see next page

July 16, 1908.
Index right. A.

8-0-40

117.8 Var. dir.
143.8 26.0 ✓
293.5
320.2 26.7 ✓
52.7 ✓ -3.15

112.0
139.5 27.5 ✓ -2.93
288.7
325.2 36.5 ✓
64.0 ✓ -2.71

Index left. B.
18.5
57.2 38.7 ✓
199.9
229.6 29.7 ✓
68.4 ✓ -2.56

20.5
51.5 31.0 ✓ -2.50
195.2
236.5 41.3 ✓
72.3 ✓ -2.43

-2.71 ✓

8-7-30
8 10. ✓
6 4 5.
+5 +30. ✓
13 [illegible] 35. ✓
8139.5 44

The first two sets in above groups differ considerably in magnitude; but this seems to be probably due to extremely high altitude and possibly a little constraint in the observer as he has rather a severe inflamation on the back of his neck. General result however, considered good. Sprocket etc not read, but region identified.

July 16, 1908

Double star (new list) = Burnham's Cat.
6655 Phot R – Wols Thompson sec.
13 46 −0.9
17 0
3 14

No such double easily found tonight in theoretical position given.

Double star (new list) = Burnham's Cat
6852. Phot R Wols. Thompson sec
14 18 + 11.4
17 25
3 7

P.A. 334. dis 8.86, mags. 7.2, 7.5.

For measts. see fol. page.

July 16, 1908

Indep right follow
S. folders

9-36-35

278.0
358.9 80.9 ✓
100.9
184.2 83.3 ✓
164.2 ✓ 0.30 ✓

280.0 83.5 ✓ 0.30 ✓
3.5
101.5 81.2 ✓
182.7 164.7 ✓ 0.29 ✓

190.5
272.5 82.0 ✓
9.5
89.0 79.5 ✓
161.5 ✓ 0.35 ✓

192.1
270.5 78.4 ✓ 0.38 ✓
8.7 80.8 ✓
89.5 159.2 ✓ 0.40 ✓

9-43-30
80 5. ✓
9 40 2. ✓
+5 +30. ✓
14 40 32. ✓
8139.6115 - ✓

mean 0.34 ✓

July 16, 1908

Doubles star (new list) = Burnham's Cat
8146 Phot R Wobs Thompson rec

17 40 −13.3
17 45
5

Abandoned

Double star (new list): Burnham's Cat.
8979 Wobs. Thompson rec Phot R.

18 40 −1.1
17 55
45

12
11 − 15

PA. 121° dis 13". mag. 5.7, 7.0,

For results, see next page.

July 16, 1908

Index left & above

109.5 — M Part but dis.
169.2 59.7 ✓
286.8
347.8 61.0 ✓
120.7 ✓ 1.12 ✓

10-5-42

107.0 64.2 ✓ 1.14 ✓
171.2
291.3 60.2 ✓
351.5 124.4 ✓ 1.10 ✓

20.3
79.9 59.6 ✓
199.0 61.3 ✓
260.3 120.9 ✓ 1.17 ✓

23.9
81.2 57.3 ✓ 1.24 ✓
202.2 58.0 ✓
260.2 115.3 ✓ 1.30 ✓

10-11-57
17 39. ✓
10 8 50. ✓
+5 +30. ✓
15 9 20. ✓
2139.6314 ✓

mean 1.19 ✓

July 16, 1908

Double star (new-list) = Burnhams Cat
9005 Phot R. W obs. Thompson rec

18 59 — 4.4
18 13
46
12
11 14

P.A 207° Dis 36.″ Mags. 6.0-6.8

For measts, see next page.

July 16, 1908.

Inbright + above.

201.9 → M. fol. + brtr. dis.

1021-50 259.0 57.1

250.0

77.3 52.3

109.4 1.43

200.9

258.8 57.9 1.40

23.4

77.3 53.9

111.8 1.38

112.8

171.8 59.0

292.9

347.4 54.5

113.5 1.34

114.0

170.0 56.0 1.32

10-29-15

51 5.

10 25 32.

+5 +30.

15 26 2.

8139.6431

292.0

350.8 58.8

114.8 1.31

mean 1.36

L. P. A.

July 16, 1908

Double star (new list) - Burnham's list -
5990

11 54 + 71.3
18 35
6 41

abandoned

W's watch used for time; watch
30 secs. slow.

L. P. P.

July 18 (Saturday)

u Herculis
Phot T-7 inch cap
W.K. Thompson rec
17 12 + 38.2
15 42
1 30
12
10 30

Cloudy in this region at present time and scattered clouds more or less in general.

For results, see next page.

July 18, 1908

Index left B.

8-3-40

16.4 — Var. div.
57.9 41.5 ✓
200.4 27.9 ✓
228.3 69.4 ✓ -2.53 ✓

23.4 26.5 ✓ -2.50 ✓
49.9
194.1 44.4 ✓
238.5 70.9 ✓ -2.48 ✓

Index right A.

288.1 38.9 ✓
327.0
114.2 23.6 ✓
137.8 62.5 ✓ -2.77 ✓

294.4 25.9 ✓ -2.70 ✓
320.3
115.5 40.4 ✓
145.9 66.3 ✓ -2.63 ✓

mean -2.60 ✓

8-11-0

14 40. ✓
8 7 20. ✓
+5 -10. ✓

13 7 10. ✓
8141.5 466 ✓

July 18, 1908

Index right A.

287.0
326.1 39.1
113.2
138.3 25.1
64.2 -2.71

2

293.0
320.5 27.5 -2.62
104.0
146.2 42.2
69.7 -2.52

Index left. B.

194.7
234.3 3~~4~~9.6
23.0
47.7 24.7
~~64.9~~ 64.3 -2.70

204.4 23.8 -2.64
228.2
14.2 44.3
58.5 68.1 -2.57

-2.63

8-14-10

8-22-0

36 10.
8 18 5.
+5 -10.

13 17 55
8 141.5 5 41

see next page for remark.

July 18, 1908

Troubled somewhat by twilight and clouds in the two preceding groups on ω Herculis. The altitude also was very high making observations rather difficult. Great care was however exercised in making the observations and the results are considered good. As it is now pretty cloudy in this region, so that images cannot be found and set properly, sprocket etc omitted but region thoroughly identified before beginning and position angle also read correctly.

July 18, 1908

Double star (new list) = Burn's Cat.

11839

22.~~30~~ ~~3~~0 + 39.0
17 00
5 30
12
6 30

PA 186° Dis. 22"

July 18, 1908

Index left & below.

1063

9 17 25. 177.0

290.0

354.6

104.5

Clouds – star faint

179.7

Stopped by clouds. Clouds now everywhere with quite continuous lightning. Looks as if there is no chance for anything further.

W's watch used for time; watch 10 secs fast.

L. P. A.

July 20, 1908, (Monday.).

u Herculis: Phot. I. Kcols. G. rec.

17 12 +33.2
15 55

−1 17
10 43

For measts. see next page.

July 20. 1908.

Index left. B.

7 56 0

194.8
334.9 40.1
22.0
52.2 30.2
70.3 -2.50

200.3 -2.62
230.0 29.7
24.1
57.9 33.8
63.5 -2.73

Index right, A.

103.2
146.8 43.6
294.8 26.0
320.8 69.6 -2.52

115.8 26.7 -2.57
142.5
287.8 39.9
327.7 66.6 -2.62

8	11	25
	7	25
8	3	42.
+5		+15
13	3	57.

8143.5444

Mean -2.60

July 20, 1908.

Double Star (new list) = Burnham's Cat, 11839. P.A. 186° Dist. 22" mags. 6.0, 6.8.
Phot. R. W. obs. W. rec.

22 30 +39.0
17 5
−5 25.
6 7 35.

Index left + below. B.

9 7 35

103.3
187.2 83.9✓
285.5
356.8 $\frac{71.3}{155.2}$✓ 0.47✓

103.8 70.0✓ 0.58✓
173.8
282.5
356.5 $\frac{74.0}{144.0}$✓ 0.69✓

~~Index~~ right + above. A.
20.8 63.2✓
84.0
195.0 $\frac{70.6}{133.8}$✓ 0.90✓
265.6

17.5 64.4✓ 0.90✓
81.9
198.0 $\frac{70.0}{134.4}$✓ 0.89✓
268.0 mean 0.74✓

9 21 50
29 25✓
9 14 42.✓
+5 +15.✓
14 14 57.
8143.5937✓

July 20. 1908.

Double Star (new list) = Burnham's Cat.
11862.

22 33 +72.2
18 10
−4 23
7 37

Abandoned.

Double Star (new list) = Burnham's Cat.
11772. Phot. R.,
W. obs. W. rec.

For measts. see next page.

22 24 +57.8
18 30
−3 54
8 6

P. A. 192° Dist 40.″ mags. 3.1, 5.5

July 20, 1908.

Index above. A.

10 30 0

326
70.8 38.2✓
211.0 43.2✓
254.2 81.4✓ 2.15✓

31.0 41.6✓ 2.21✓
72.6
213.8 36.0✓
249.8 77.6✓ 2.27✓

Index below. B.

122.5
161.9 39.4✓
304.0 37.9✓
341.9 77.3✓ 2.28✓

123.0 40.6✓ 2.23
163.6
301.9 39.8✓
341.7 80.4✓ 2.18

Mean 2.22

10 46 15
76 15.✓
10 38 8.✓
+5 +15.✓
15 38 23.✓
8143.6517✓

W's watch used for times.
Watch 15 secs. slow.

L. P. P.

July 21, 1908 (Tuesday).

u Herculis Phot T 7-inch
W obs. Thompson rec

17 12 +33.2
15 44
1 28
12
10 32

For measts, see pp. 89, 90, 91.

July 21, 1908.

I

Index left A.

7-47-18

195.5
234.6 39.1 ✓
18.3
51.1 32.8 ✓
71.9 ✓ −2.4~~8~~4 ✓

197.4 35.8 ✓ −2.3~~8~~6.
233.2
14.2
55.9 41.7 ✓
77.5 ✓ −2.27 ✓

Index right A.

104.1 40.1 ✓
144.2
289.7 33.1 ✓
322.8 73.2 ✓ −2.40 ✓

108.7 29.3 ✓ −2.50 ✓
138.0
288.0 38.3 ✓
326.3 67.6 ✓ −2.58 ✓

−2.4~~4~~3 ✓

7-53-45

10 1 3. ✓
7 50 32. ✓
+5 +28. ✓
12 51 0. ✓
8144.5354 ✓

July 21, 1908

Index right A.

II

7-55-45

103.5
144.4 40.9 ✓
293.1 27.2 ✓
320.3 68.1 ✓ −2.57 ✓
~~109.1~~

109.1 30.3 ✓ −2.54 ✓
139.4
285.5 39.7 ✓
325.2 70.0 ✓ −2.51 ✓

Index left. B.
12.6 43.1 ✓
55.7
201.5 27.4 ✓
228.9 70.5 ✓ −2.49 ✓

20.4 28.5 ✓ −2.48 ✓
48.9
193.1 43.0 ✓
236.1 71.5 ✓ −2.46 ✓

−2.51 ✓

8-1-48
11 7 25. ✓
7 58 42. ✓
+5 +28. ✓
12 59 10. ✓
8144.5411 ✓

July 21, 1908
same as
Index left B.

III

8-3-56

12.6 42.9 ✓
54.9

201.4 27.3 ✓
228.7 ~~64.6~~ 70.2 ✓ −2.50 ✓

−2.48 ✓
~~2.50~~

21.0 28.2 ✓
49.2

193.1 43.0 ✓
236.1 71.2 ✓ −2.47 ✓

Index right. A.

280.7 38.0 ✓
324.7

110.5
137.9 27.4 ✓
65.4 ✓ −2.66 ✓

−2.60 ✓
~~2.58~~

292.2 27.7 ✓
319.9

105.1 41.2 ✓
146.3 68.9 ✓ −2.54 ✓

2.54 ✓

~~7~~8-10-30
14 26. ✓
8 7 13. ✓
+5 +28. ✓
13 7 41.
8 144.5 470 ✓

July 21, 1908

u Sagittae Phot T
W obs. Thompson rec

· 19 19 +19.5
16 47

2 32
12

9 28

For meass, see fol. pages.

July 21, 1908

Index left B. I

89.1 Corr str dis.

9-17-50 160.4 71.3 ✓
275.4
330.5 55.1 ✓
126.4 ✓ +1.05 ✓

98.0 53.4 ✓ +1.01 ✓
151.4
265.1 76.8 ✓
341.9 130.2 ✓ +0.97 ✓

Index right A.

355.3
71.8 76.5 ✓
188.0 55.0 ✓
243.0 131.5 ✓ +0.95 ✓

6.6 +0.88 ✓
62.3 55.7 ✓
173.5 82.6 ✓
256.1 138.3 ✓ +0.81 ✓

+0.94 ✓

9-24-25
4 2 15. ✓
9 21 8. ✓
+5 +28. ✓
14 21 36. ✓
8144.5983 ✓

July 21, 1908

Index right A. II

355.4
9-27-20 74.5 79.1 ✓
188.7
243.5 54.8 ✓ / 133.9 ✓ +0.90 ✓

7.0 56.8 ✓ +0.83 ✓
63.8

171.6
255.5 83.9 ✓ / 140.7 ✓ +0.76 ✓

Index left. B.

264.6
342.5 77.9 ✓
97.6
152.8 55.2 ✓ / 133.1 ✓ +0.91 ✓

276.9 58.6 ✓ +0.88 ✓
335.5
85.2
163.2 78.0 ✓ / 136.6 ✓ +0.84 ✓

+0.86 ✓

9-34-40
62 0. ✓
9 31 0. ✓
+5 +28 ✓
14 31 28. ✓
8144.6052 ✓

July 21, 1908.

Index left A. III

265.5
9-38-40 342.0 76.5 ✓
94.4 55.1 ✓
149.5 131.6 ✓ +0.95 ✓

278.5 52.7 ✓ +0.98 ✓
331.2
85.1 75.3 ✓
160.4 128.0 ✓ +1.02 ✓

Index right A.
173.5 82.2 ✓
255.7
7.5 55.1 ✓
62.6 137.3 ✓ +0.83 ✓

187.0 58.0 ✓ +0.79 ✓
9-46-.05 245.0
84 45. ✓ 353.7 83.1 ✓
9 42 22. ✓ 76.8 141.1 ✓ +0.75 ✓
+5 +20. ✓ +0.88 ✓
14 42 50. ✓ Noticed at end of above groups that there
8144.6131 ✓ were clouds in this region

W's watch

July 21, 1908

Clear again, night

	Index	A.	IV
	174.6		
10-4-45	254.8	80.2	
	5.0	58.0	
	63.0	138.2	+0.81
	185.5	59.6	
	245.1		+0.74
	351.6	86.2	
	77.8	145.8	+0.66
	Index left.	B.	
	81.4	83.6	
	165.0		
	273.0	60.6	
	333.6	144.2	+0.69
	95.8		+0.76
10-11-56	155.4	59.6	
16 41.	264.3	77.7	
10 8 20.	342.0	127.3	+0.83
+5 +28.			+0.75
15 8 48.			

8144.6311 Clouds in the region. Stopped by clouds.

S T
H A
Dec
P.A
Spread

July 21. 1908.

Sprocket etc not read as it became extensively cloudy everywhere, somewhat suddenly, but region thoroughly identified

W's watch used for times
Watch 28 secs slow.

L. P. P.

July 22, 1908 (Wednesday)

u Herculis Phot T. 7-inch cap used.
W ob. Thompson rec

```
 17  12   +33.2
 16  60
 ------
  1  12

 12
 ------
 10  48
```

Sky thickly cloudy in this region
7-40-0 and practically so every where

July 22, 1908
Index left. B.

14.0
8-20-30 57.3 43.3 ✓
199.2
228.5 29.3 ✓
72.6 ✓ -2.42 ✓

19.1 29.5 ✓ -2.46 ✓
48.6
194.0 40.9 ✓
234.9 70.4 ✓ -2.49 ✓

Index right. A.
285.5 38.2 ✓
323.7
110.6
138.3 27.7 ✓
65.9 ✓ -2.65 ✓

290.5 -2.60 ✓
319.5 29.0 ✓
105.1
144.4 39.3 ✓
68.3 ✓ -2.56 ✓

Mean -2.53 ✓

8-15-0
15 30. ✓
8 7 45. ✓
+5 +38 ✓
13 8 23. ✓
8 14 5.5 47 5 - ✓

Practically cloudy every where; no chance for any thing further.

W's watch used for times.
Watch 38. secs. slow.

L. P. P.

July 23, 1908 (Thursday)

u Herculis Phot. + 7-inch Cap.
Mob. Thompson rec.

17 12 +33.2
16 2
1 10

12
10 50

For results, see pp. 101-2.

July 23. 1908.
Index left. B.

8-8-10

10.2
55.9 45.7✓
198.5 30.5✓
229.0 76.2✓ - 2.31✓
1
18.4 31.6✓ -2.26✓
50.0
189.9 48.2✓
238.1 79.8✓ -2.20✓

Index right. A.
285.3 42.2✓
327.5
106.2 32.5✓
138.7 74.7✓ -2.36✓

289.9 -2.36✓
319.2 29.3✓
101.5 45.4✓
146.9 74.7✓ -2.36✓

-2.31✓

8-8-0
8 10
8 4 5✓
+5 58.✓
13 5 3.✓
8146.5451✓

July 23. 1908.

Index right. A.

283.0 44.1
8-10-20 327.1
289.9 28.7
318.6 72.8 −2.42

108.5 30.4 −2.40
138.9
284.4 43.2
327.6 73.6 −2.39

Index left. B.

10.3 45.3
55.6
198.4 ~~188.4~~ 28.2
226.6 73.5 −2.39

~~Index left~~

18.1 30.5 −2.36
8-22-0 48.6
191.2 45.5
236.7 76.0 −2.32

32 20.
8 16 10.
+5 +58.
13 17 8.
8146.55 36

−2.38

~~Third~~ Circle evidently read wrong by ten degrees in third reading of third set above, and should evidently be 198.4 — this assumed. altitude very high, and observations somewhat difficult, but no pains were spared in making the settings and results considered good. Region thoroughly identified

July 23. 1908.

R.S. Cephei.

Sky too cloudy to observe this tonight although it is theoretically at minimum.

Double star (new list.) = Burnham's Cat. 10643. Phot R.

W ob. Thompson ee.

20 53 +3.8
17 37
3 16
1.2
8 44

PA 78° dis 11" Mags 5.7, 7.2.

For meas: see next page.

July 23. 1908.

Index left & above B.
292.8 S. prec bet dis.
Clouds.

9-28-40
349.1 56.3 ✓
110.8
169.0 58.2 ✓
114.5 ✓ 1.31 ✓

293.9 54.8 ✓ 1.40 ✓
348.7
112.5
164.8 52.3 ✓
107.1 ✓ 1.49 ✓

Index right & below, A.
204.6
255.7 51.1 ✓
26.1
76.8 50.7 ✓
101.8 ✓ 1.61 ✓

204.0 53.5 ✓ 1.56 ✓
257.5
23.9 52.1 ✓
76.0 105.6 ✓ 1.52 ✓

9-36-40
65 20. ✓
9 32 40. ✓

1.48 ✓

July 23. 1902.
Double star (new list) = Burnham's Cat
10943

21 18 −7.1
18 10
3 8
12
8 : 52

Abandoned — too cloudy.

Double star (new list) = Burnham's Cat
7121

15 1 +48.1
18 25
3 24

The above star not found, but there is a double of ~~above~~ about the right brightness in this region with position angle ~~70°~~ 250° dis 6". — The preceding P. A. corrected by W. immediately after examining record. — P. A. should be 250°.

W's watch used for time.
Watch 58 secs slow.

over.

July 23. 1908.

195.0
267.0

10-15-20

July 24. 1908. The double (Bu. 7121) does not exist, apparently. [See Burnham's Cat. for error of H. — also Crossley, Gledhill and Wilson's book on Double Stars.].

The double 7120 (44 Boötis) is the one indicated at the bottom of prec. page, and is the only one in this immediate vicinity by the above authorities, and also by my examination of the sky.

L. A. P.

July 27 (Monday) 1908.

u Herculis Phot T 7-inch cap
W obs. - Thompson sec

17   12   + 33.2
16   15
0   57

12
11   3

For meas'ts see pp. 108, 109.

July 27, 1908

Index left. B.

1888.8

7-43-10 2377.7 48.9 ✓

13.2

53.1 39.9 ✓

88.8 ✓ −1.95 ✓

1914 42.4 ✓ −1.90 ✓

233.8

8.5 50.4 ✓

58.9 92.8 ✓ −1.84 ✓

Index right. A.

101.6 48.4 ✓

150.0

287.8 33.4 ✓

321.2 81.8 ✓ −2.14 ✓

105.6 36.8 ✓ −2.08 ✓

7 49 50 142.4

278.9 49.5 ✓

328.4 86.3 ✓ −2.01 ✓

−1.99 ✓

9	3	0. ✓
7	46	30. ✓
+5	+2	0. ✓
12	48	30. ✓

8150.5336 ✓

July 27, 1908

Index right. A.

7-51-50

98.2
147.6 49.4 ✓
287.8 36.1 ✓
323.9 85.5 ✓ −2.04 ✓

106.0 35.7 ✓ −2.03 ✓
141.7
278.3 50.3 ✓
328.6 86.0 ✓ −2.02 ✓

Index left. B.

6.2 53.3 ✓
59.5
194.6 37.4 ✓
232.0 90.7 ✓ −1.90 ✓

15.9 35.6 ✓ −1.98 ✓
51.5
187.5 49.3 ✓
236.8 84.9 ✓ −2.05 ✓

−2.00

7-59-5
110 55. ✓
7 55 28. ✓
+5 +2 0. ✓
12 57 28. ✓
8150.5400 ✓

Altitude high. Observations rather difficult, but great care exercised and obs. considered good.

July 27, 1908

ξ Boötis. Phot. T. 7-inch cap
Wob. Thompson rec.

14 46 + 19.7
17 05
2 19

For measurements see next page.

Same comp.-star as on July 8.

July 27, 1908

Index left and below. B.

274.4
8-50-50 331.7 57.3
98.6 49.4
148.0 106.7 -1.49

277.8 49.7 -1.46
327.5
95.6 59.2
154.8 108.9 -1.44

Index right and above. A.

180.9 62.1
243.0
8.6 54.9
63.5 117.0 -1.26

-1.34
188.5 49.7
8-56-30 238.2
107 20. 4.6 60.7
8 53 40. 64.7 110.4 -1.46
+5 +2 0. -1.40
13 55 40. S.T. 17 53.
2150.5204 P.A 272.5 N B
Dec +20.0
H.A +3h 6m
Sprocket -6.5B
-5.5b

July 27, 908

Double star (new list) = Burnham's Cat.
7167 Phot R. N obs. Thompson rec.

15 8 +39.1
18 25
3 19

PA 284° Dis 3.0'' Mags 7.0—7.3

For results, see next page.

July 27, 1908

Index right + above. A.

190.8 ← Fol + bite dis

95110 269.8 79.0✓

3.5 91.5✓

95.0 170.5✓ 0.18✓

187.0 91.7✓ 0.27✓

278.7

16.6 69.4✓

86.0 161.1✓ 0.36✓

Index left and below. B.

106.9 66.7✓

173.6

273.2 94.3✓

7.5 161.0✓ 0.36✓

90.3 95.3✓ 0.30✓

9-58-30 185.6

109 40.✓ 285.9 71.8✓

9 54 50.✓ 357.7 167.1✓ 0.24✓

45 +2 0.✓

14 56 50.✓ 0.28✓

8150.6228✓

July 27, 1908

Double star (new list) = Burnham's Cat.
8146 W. ob. Thompson Phot R.
17 48 – 13.3
18 47
1 7

P.A. The two components seem to be about equal in brightness but will assume the south preceding component as slightly the brighter

P.A. 24°. dis. 14." Mags. 7.0 – 7.1 .

July 27, 1908

~~184.9~~

10-17-50 ~~278.0~~ Mixture in which image

~~4.1~~ dis. — New start below.

~~94.1~~

+8

As images are dim will try measurements with phot R., one prism removed

Index right & above A.

273.9 ← S. pr. & both dis.

10-23-45 1.3 87.4 ✓

91.3

179.6 88.3 ✓ / 175.7 ✓ 0.08 ✓

275.9 830 ✓ 0.10 ✓

358.9

91.3 90.2 ✓

181.5 173.2 ✓ 0.13 ✓

Index. Left & below. B.

180.9

90.0 ✓

270.9

~~8~~ 3.6 86.4 ✓

90.0 176.4 ✓ 0.07 ✓

183.4 88.2 ✓ 0.08 ✓

10-31-28

271.6

2.0 86.4 ✓ 0.10 ✓

88.4 174.6 ✓ 0.09 ✓

√√ √. ✓

10 27 32. ✓

+5 +2 0. ✓

15 29 32. ✓

8 15 0.6455 5 – ✓

July 27, 1908.

As assumed in double measured on previous page, the south preceding component turns out, by the measurements, to be slightly the brighter

Sky now pretty cloudy; no chance for any thing further.

W's watch used for times
Watch 2m 0 secs slow.

L. P. P.

July 28, 1908 (Tuesday)

u Herculis Phot. II 7-inch cap
Obs. Thompson ave

17 12
16 17
55

12 .
11 5

For measurement see next page (118-9)

July 28. 1908.

Index left B.

7-41-50

192.2 — Var. Ms.
234.0 41.8✓
15.6 32.2✓
47.8 74.0✓ -2.38✓

197.6 30.6✓ -2.33✓
228.2
12.2 46.6✓
58.8 77.2✓ -2.28✓

Index right A.

101.8 41.2✓
143.0
290.6 29.9✓
320.5 71.1✓ -2.47✓

107.5 30.0✓ -2.46✓
137.5
284.2 41.9✓
326.1 71.9✓ -2.44✓

7-48-20

9 0 10.✓
7 · 45 5.✓
+5 +2 22.✓

12 47 27.

8151.5329✓

mean -2.40✓

July 28. 1908.
Index right A.

1018
7-56-17 143.3 41.5 ✓
288.6 30.5 ✓
319.1 72.0 ✓ −2.44 ✓

1095 28.6 ✓ −2.48
138.1
283.2 41.2 ✓
324.4 69.8 ✓ −2.51 ✓

Index left B.
11.2
529 41.7 ✓
197.7
227.5 29.8 ✓
71.5 ✓ −2.46 ✓

171 31.0 ✓ −2.38 ✓
7-57-7 48.1
107 24. ✓ 1909
7 53 42. ✓ 236.1 45.2 ✓
45 +2 22. ✓ 75.2 ✓ −2.31 ✓
12 56 4. ✓ −2.43 ✓
81 51.5 390 ✓

S.T. 1643
HA −0 h 46 m
PA 193.5 Ver B
Dec +32.5
Sprocket −4.5 B
−3.5 C.

July 28, 1908

Trobled somewhat by light cloud during preceding of observations; altitude also very high, but great care exercised and results considered good.

Doublestar (new list) = Burnham's Cat.

6179 Wob. Thompson. Phot'k one prism removed

12 22 +45.5

17 22

5 0

PA 161° dis 10" mags 7.0 7.6

For measts, see next page.

48

July 28, 1908

Index right + above.

94.0 ← M prec. bat. dis

8-49-0 178.5 84.5 ✓

284.0

349.8 65.8 ✓

150.3 ✓ 0.57 ✓

100.8 70.0 ✓ 0.57 ✓

170.8

276.7 80.3 ✓

357.0 150.3 ✓ 0.57 ✓

7.0

87.4 80.4 ✓

194.5 68.6 ✓

263.1 149.0 ✓ 0.59 ✓

9.4 71.7 ✓ 0.58 ✓

81.1

187.7 78.5 ✓

266.2 150.2 ✓ 0.57 ✓

mean 0.58 ✓

8-59-5

10 8 5. ✓

8 54 2. ✓

~~+5~~ +2 22. ✓

13 56 24. ✓

8151.5808 ✓

July 28, 1908

Double star (new list) = Burnham's Cat. 5990 Phot R. one prism removed.
Mobs. Thompson sec
11 54 +71.3
18 00
6 6

PA 150° dis 34" mags 71.-72

The two components seem to be about equal in brightness, but will provisionally assume the north preceding component to be slightly the brighter

For meas'ts. see next page.

July 28, 1908

9-24-17

Index below.

170.0 N. Prec. dis.
273.9 103.9✓
2.0
80.1✓
82.1 184.0✓
176.0✓ 0.08✓

184.1
262.9 78.8✓ 0.10✓
349.5
108.3✓
97.8 187.1✓
172.9✓ 0.13✓
79.7 105.1✓
184.8
270.4 80.2✓
350.6 185.3✓
174.7✓ 0.10✓
~~955~~

955 76.8✓ 0.06✓
1723
259.5 105.1✓
4.6 181.9✓ 0.03✓
178.1✓

mean 0.08✓

93230
56 47.✓
9 28 24.✓
5 +2 22.✓
14 30 46.✓
8151.6048✓

L. P. P.

According to above measurements the north preceding component (which was assumed to be slightly the brighter) turns out to be slightly the fainter

W's watch used for time Watch 2m 22 secs slow

July 29 1908 (Wednesday)

u Herculis Phot T 7-inch cap
W obs. Thompson see

17 12' + 33.2
16 25
47
11
13

For measurements see next page

July 29, 1908

Index left B.

1902 No I

7-46-0 2377 47.5

17.2 33.9

51.1 81.4 -2.15

195.0 33.7 -2.14

228.7

7.7 48.8

56.5 82.5 -2.12

Index right. A.

100.0 43.0

143.0

288.4 31.0

319.4 74.0 -2.38

1048 34.8 -2.32

139.6

282.5 43.5

7-51-50 326.0 78.3 -2.25

mean -2.23

97 50.

7 48 55.

+5 -32.

12 48 23.

8/5 2.5336

July 29, 1908
U Ophiuchi Phot T 7-inch cap
Wob. Thompson Rec
17 9 +1.4
17 25
0 16

For measts. see fol. pages.

July 29, 1908
78.0

Index left + below B.
78.0 Nar dis No I

8-56-20   161.5   83.5 ✓
273.3
331.6   58.3 ✓
141.8 ✓ −0.74 ✓

92.0
151.5   59.5 ✓   −0.80 ✓
263.6   76.1 ✓
339.7   135.6 ✓ −0.86 ✓

Index right + above. A.
349.9   84.4 ✓
74.3
181.9   57.0 ✓
238.9   141.4 ✓ −0.75 ✓

4.8
9-3-35   64.3   59.5 ✓   −0.74 ✓
171.0   82.1 ✓
253.1   141.6 ✓ −0.74 ✓

119 55. ✓
8 59 58. ✓
+5 −32. ✓
13 59 26. ✓
81 52. 58 29

~~0.87~~
−0.77 ✓

July 29, 1908

Index right + above A.

9-9-5

350.9 84.6✓

75.5 II

186.1 54.8✓

240.9 139.4✓ −0.79✓

3.8 59.2✓

63.0 −0.79✓

172.4 79.8✓

252.2 139.0✓ −0.79✓

Index left + below. B.

260.5 81.7✓

342.2

94.6 52.9✓

147.5 134.6✓ −0.88✓

276.7 54.1✓ −0.87✓

330.8

79.9 81.9✓

161.8 136.0✓ −0.86✓

−0.83✓

9-16-50

25 55.✓

9 12 58.✓

+5 −32.✓

14 12 26.✓

8152.5920✓

July 29, 1908

Index, ~~right & above~~ left & Below. ~~A~~. B.

262.3
343.6 81.3 ✓ III
9-22-10
92.5
147.6 55.1 ✓
136.4 ✓ −0.85 ✓

275.8
331.8 56.0 ✓ −0.80 ✓
76.5
161.0 84.5 ✓
140.5 ✓ −0.76 ✓

Index, ~~left & below~~ right & above. ~~B~~. A.

169.7
252.1 82.4 ✓
4.5
61.7 57.2 ✓
139.6 ✓ −0.78 ✓

184.7
241.4 56.7 ✓ −0.78 ✓
350.5
73.3 82.8 ✓
139.5 ✓ −0.78 ✓

−0.79 ✓

9-29-9
51 12. ✓
9 25 36. ✓
45 −32. ✓
14 25 4.
8152,6008

July 29, 1908

Index right + above. A.

9-35-20

IV

163.4	86.6	
250.0		
4.6	57.1	
61.7	143.7	−0.70
185.9		
240.0	54.1	−0.78
352.2	81.6	
73.8	135.7	−0.86

Index left + below. B.

80.1	82.3	
162.4		
276.6	52.4	
329.0	134.7	−0.88
94.9	50.4	
145.3		−0.88
260.9	84.0	
344.9	134.4	−0.89

−0.83

9-42-35

	77	55.
9	38	58.
+5		−31.
14	38	26.

8152.6100

July 29, 1908

Index left + below. B.

81.2

9-48 10 161.0 79.8 ~~V~~

274.3 53.1 V

327.4 132.9 -0.92

95.2

151.2 56.0 -0.86

259.9 83.3

343.2 139.3 -0.79

Index right + above. A.

348.7 86.2

74.9

187.2 51.6

238.8 137.8 -0.82

~~55~~

55 55.4 -0.86

9-54-56 60.9

103 6. 172.9

9 51 33. 252.0 79.1

45 -32. 134.5 -0.89

14 51 1. -0.86

8152.6187

July 29, 1908

Index right + above. A.

VI

355.6
10-9-6 70.9 75.3 ✓

185.4 53.5 ✓
238.9 128.6 ✓ −1.00 ✓

4.5
62.8 58.3 ✓ −0.9~~8~~4 ✓
172.5 76.0 ✓
248.5 134.3 ✓ −0.89 ✓ ~~0.91~~

Index left + below. B.

264.8
340.2 75.4 ✓
93.2
146.5 53.3 ✓
128.7 ✓ −1.00 ✓

276.4
332.9 56.5 ✓ −0.92 ✓
81.6 80.1 ✓
161.7 136.6 ✓ −0.84 ✓

−0.93 ✓
~~0.94~~

10-1550
24 50. ✓
10 12 25. ✓
+5 −32. ✓
15 11 53 ✓
8152.6332 ✓

July 29, 1908

Index left + below. B.

VII

10-25-30

262.3
339.0 76.7
97.3
146.6 49.3
126.0 −1.06

275.7
329.0 53.3 −0.99
81.7
161.0 79.3
132.6 −0.92

Index right + above. A.

173.6
250.7 77.1
7.5
57.2 49.7
126.8 −1.05

+

186.5
241.6 55.1 −0.96
350.6
70.8 80.2
135.3 −0.87
−0.98

10-32-30

58 0.
10 29 0.
45 −32.

15 28 28.
8152.6447

S.T. 19 30
HA +2h 19m.
Dec +2.0
PA 36.0 Net
Sprocket −8.5B
−7.5b
L. P. P.

W's watch used for times
Watch 32 secs fast.

July 30 1908 (Thursday).

u Herculis Phot. T. 7-inch cap.

17 12
16 30
1 42
12
11 18

July 30, 1908

Index left B.

1939 Nardis

7-43-30 231.5 37.6✓

184 ✓

458 27.4✓

6√.0✓ −2.6A✓

1963 32.2✓ −2.√6✓

228.5

12.7 39.4✓

52.1

71.6✓ −2.4√✓

Index right. A!

101.8 3A.0✓

139.8

288.5 29.2✓

317.7 67.2✓ −2.60✓

106.2 30.A✓ −2.√9✓

7-49-22 137.0

92 √2.✓ 284.9 37.1✓

7 46 26.✓ 322.0 67.9✓ −2.√A✓

+√ −3√.✓

12 4√ √1.✓ −2.√A✓

A1√3.√3/A✓

July 30, 1908

Double star (new list) = Burnham's Cat
6655 Phot R.
13 46 −0.9
17 45
4 01

Double not easily found; possibly some error in catalogue

Double star (new list) = Burnham's Cat.
10943 Phot R. No obs. Thompson rec.
21 18 −7.1
18 3
3 15
12
8 45

P A 84° dis 40.″± mag 9.0 − 7.5

For results see next pages

July 30, 1908
Index left & above
279.8 Pre & bisti des

9-22-25
350.1
97.0 70.3 ✓
181.0 84.0 ✓
154.3 ✓ 0.49 ✓

281.3
349.2 67.9 ✓ 0.48 ✓
91.8
179.4 87.6 ✓
155.5 ✓ 0.47 ✓

189.2
267.9 78.7 ✓
10.7
87.2 76.5 ✓
155.2 ✓ 0.47 ✓

188.4
267.7 79.3 ✓ 0.42 ✓
5.9
87.8 81.9 ✓
161.2 ✓ 0.36 ✓

0.45 ✓

9-31-45
5 4 10. ✓
9 27 5. ✓
5 -35. ✓
14 26 30. ✓
8153.6018 ✓

✓ July 30, 1908

Double Star (new list) - Burnham's Cat. 11862.

22 33 +72.2
18 33
−4 0
12
8 0

P.A. 137° dis. 42". ~~mags 7.0 7.5~~
mags. 6.9 – 7.4

For measts. see next page.

July 30, 1908
Index left & below.
92.1 R fol & better dis

9-52-17
178.4 86.3 ✓
285.8 66.2 ✓
352.0 152.5 ✓ 0.53 ✓

102.5 68.3 ✓ 0.52 ✓
170.8
274.0 85.0 ✓
359.0 153.3 ✓ 0.51 ✓

359.1 87.5 ✓
86.6
189.1 69.5 ✓
258.6 157.0 ✓ 0.44 ✓

13.1 64.9 ✓ 0.45 ✓
78.0
184.2 91.2 ✓
275.4 156.1 ✓ 0.46 ✓

0.48 ✓

10-0-5.
11 2 22. ✓
9 56 11. ✓
45 -35. ✓
14 55 36. ✓
8153.6219 ✓

July 30, 1908

Double star (new list) - Burnham's Cat. 1094.

25 · 59 +79.1
19 02
6 59
12
5 1

P.A 274° dis 5.6" mags 6.9-7.6

For measts, see next page.

July 30, 1908

Index right & below

285.1 Fol & brt dia.

10-17-56 351.5 66.4 ✓

99.0

172.8 73.8 ✓ 140.2 ✓ 0.77 ✓

280.5

354.2 73.7 ✓ 0.70 ✓

99.4 73.6 ✓

173.0 147.3 ✓ 0.63 ✓

191.9

261.2 69.3 ✓

9.0 76.5 ✓

85.5 145.8 ✓ 0.66 ✓

188.9 0.70 ✓

10-25-50 265.2 76.3 ✓

43 46. ✓ 16.0 66.1 ✓

10 21 53. ✓ 82.1 142.4 ✓ 0.73 ✓

+5 −35. ✓

15 21 18. ✓ 0.70 ✓

815 3.6398 ✓

NB's watch used for times
Watch, 35 secs fast

L. P. P.

July 31, 1908 (Friday).

u Herculis Phot.

1
17 · 12 +32.5
16 20
52
12
11 18

7
7-44-0

Index left.
11.4
53.0
195.5
227.5

Sky is so cloudy that observation of above variable can not be carried further. Even in the above set the comparison star was at times invisible, and at other times the images were seen to be varying relatively so that even the above set is not considered critical and, as said above, nothing further can be done.

July 31, 1908

Double star (new list) = Burnham's Cat 6040

12 2 + 56.1
17 5
5 53

12 2
17 25
5 23

P.A. 81° dis. 22"

July 31, 1908

Index right + above
94.0 [illegible] + [illegible] dis.
12 85.5
8-38-35 179.5
285.6
354.9 69.3
154.8 0.48

101.0
172.0 71.0 0.46
272.9
359.6 86.7
157.7 0.43

Index left + below.
2.5
89.5 87.0
190.6
261.9 71.3
+ 158.3 0.41

12.6
8-46-20 79.5 66.9 0.41
180.5
271.0 91.5
158.4 0.41

0.44

July 31, 1908

Double star (new list) = Burnham's Cat.
~~5136~~ 5706 Phot R one prism removed
~~9 26~~ 7
11 7 +741
18 0
6 53.

There is a double in about the position indicated, and no other one is easily found; The position angle and distance however, do not agree with those in the list in the book; but will give position angle and distance and then measure this double.

PA 95° dis. 20"–25"

July 31, 1908

Index left + below.
4.2 Pret. bits dis.

73.2 69.0
171.3
263.5 92.2
9-15-55 161.2 0.36

354.8 88.3 0.36
83.1
182.0
255.0 73.0
161.3 0.36

82.9 ~~272.0~~ 91.6
174.5 ~~342.0~~
273.0 ~~81.8~~ 74.0
347.0 ~~173.4~~ 165.6 0.27

94.4 69.0 0.36
9-33-45 163.4
265.0 86.9
351.9 155.9 0.46

0.36

"Measurements made through more or less varying cloud and haze. Third set repeated, as it was very cloudy when originally taken, and at times, the images were almost invisible. The observa-

July 31, 1908

tions were, however, made slowly and with as much care as possible, waiting for the images to grow somewhat brighter, and general result is considered good

W's watch used for times
Watch 31 secs fast.

L. P. P.

Sept. 3, 1908 (Thursday)

Wobs. Thompson recd
U Ophiuchi

7-inch. cap.

+9 +20 +10

17 9 +1.4
19 6
1 51

For ments see fol. pages.

Sept. 3, 1908

Index left

	20.9	Nar. des.		
7-57-23	110.6	89.7 ✓		
	2156	61.7 ✓		
	277.3	151.4 ✓	−0.55 ✓	
	34.0	65.0 ✓		−0.42 ✓
	99.0			
	199.2	93.4 ✓		
	292.6	158.4 ✓	−0.41 ✓	

Index right.

	291.0	91.7 ✓		
	22.7			
	123.3	65.7 ✓		
	189.0	157.4 ✓	−0.43 ✓	
	304.2	64.6 ✓		−0.43 ✓
8-4-15	8.8			
12 1 32 ✓	109.4	93.1 ✓		
2 0 49. ✓	202.5	157.7 ✓	−0.43 ✓	
+5 +15. ✓				
13 1 4. ✓				−0.46 ✓
2122.5 425 ✓				

Sept 3, 1908

Index right

8-8-20

2899
20.2 90.3✓
121.8
191.0 $\frac{69.2✓}{159.5✓}$ − 0.39✓

302.4 65.4✓
7.8 −0.40✓
109.4
202.9 $\frac{93.5✓}{158.9✓}$ −0.40✓

Index left

201.1
288.3 87.2✓
31.8
99.2 $\frac{67.4✓}{154.6✓}$ −0.49✓

213.0
278.5 65.5✓ −0.46✓
20.8
1133 $\frac{92.5✓}{158.0✓}$ −0.42✓

−0.43✓

8-14-57
23 17.✓
8 11 38.✓
+5 +15✓
13 11 53.✓
8188.5499✓

Sept 3, 1908

~~Index~~ left.

III

8-18-20

199.1		
292.5	93.4	
34.8	67.1	
101.9	160.5	−0.37
~~210.1~~		
210.1	70.6	−0.34
280.7		
18.8	93.6	
112.4	164.2	−0.30

~~Index~~ right.

106.6		
203.5	96.9	
305.8	61.1	
6.9	158.0	−0.42
122.6	70.4	−0.37
193.0		
290.1	92.5	
22.6	162.9	−0.32

−0.36

8-24-55
43 15.[illegible]
8 21 38.[illegible]
+5 +15.[illegible]
13 21 53.[illegible]
8188.5568

Sept 3, 1908

Index right.

8-28-27

108.2
203.0 94.8 ✓
303.0
10.2 67.2 ✓
162.0 ✓ −0.34 ✓

120.1
193.9 73.8 ✓ −0.30 ✓
289.5
22.3 92.8 ✓
166.6 ✓ −0.25 ✓

Index left.

17.8
113.9 96.1 ✓
217.1
278.5 61.4 ✓
157.5 ✓ −0.43 ✓

32.5 66.9 ✓ −0.36 ✓
99.4
198.0
295.4 97.4 ✓
164.3 ✓ −0.30 ✓

−0.33 ✓

8-37 45
66 12 ✓
8 33 6. ✓
+5 +15 ✓
13 33 21. ✓
8188.5 649 ✓

Sept. 3, 1908

Same again
Index left.

182
8-47-27 1124 94.2 ✓
212.0
282.0 70.0 164.2 −0.30 ✓

32.7 66.3 ✓
99.0 −0.31 ✓
196.6 96.6 ✓
293.2 162.9 ✓ −0.32 ✓

Index right
303.2 68.1 ✓
11.3
108.2 98.1 ✓
206.3 166.2 ✓ −0.26 ✓

291.6 89.4 ✓ −0.26 ✓
8-55-35 21.0
118.7
1959 77.2 ✓ 166.6 ✓ −0.25 ✓

	10 3	2. ✓
8	51	31. ✓
+5		+15. ✓
13	51	46. ✓

8188.5777 ✓

−0.28 ✓

S T 20h 5m
HA +2h 53m
Dec +19
PA 2162 Nov B
Sprocket − 8.5B
− 7.56
Region thoroughly identified

Sept 3, 1908

Nov. Thompson nec
U Sagittae 9.5 inch cap

19 19 + 19.5
20 35
1 16

For meas'ts see fol. pages.

Sept 3, 1908

Index above & ← Var. des.

9-49-0

289.7 94.1 ✓
23.8
121.0 70.8 ✓
191.8 $\overline{164.9}$ ✓ −0.29 ✓

302.5 67.5 ✓ −0.30 ✓
10.0
107.2 95.7 ✓
202.9 $\overline{163.2}$ ✓ −0.32 ✓

Index below.
199.9 91.3 ✓
291.2
329 67.1 ✓
100.0 $\overline{158.4}$ ✓ −0.41 ✓

212.7 66.0 ✓ −0.46 ✓
278.7
23.0 87.8 ✓
110.8 $\overline{153.8}$ ✓ −0.50 ✓

−0.38 ✓

9-56-5
105 5 ✓
9 52 32 ✓
+5 +15. ✓
14 52 47. ✓

8/88.6200 ✓

Sept 3, 1908

Index below.

10-0-18

201.8
290.8 89.0
35.8
94.8 59.0
148.0 -0.61

216.1 61.8 -0.58
277.9
21.0
110.2 89.2
151.0 -0.56

Index above.

109.6
199.6 90.0
303.0
7.0 64.0
154.0 -0.50

~~12c~~

124.0 65.0 -0.54
189.0
292.0
17.0 85.0
150.0 -0.58

-0.56

10 6 57
7 15
10 3 38.
+5 +15.
15 3 53.
8188.6277

Sept 3, 1908

Index above.

III

1 0-11-30

112.2 84.0 ✓
196.2
306.1 59.8 ✓
5.9 143.8 ✓ -0.70 ✓

125.3 62.1 ✓
187.4 -0.65 ✓
292.0 86.8 ✓
18.8 148.9 ✓ -0.60 ✓

Index below.

22.6 83.1 ✓
105.7
217.3 60.4 ✓
277.7 143.5 ✓ -0.70 ✓

37.8 55.2 ✓ -0.77 ✓
93.0
205.9
287.2 81.3 ✓
136.5 ✓ -0.84 ✓

-0.71. ✓

10-17-32
29 2. ✓
10 14 31. ✓
+5 +15. ✓
15 14 46. ✓

8188.6353

Sept 3 1908

Index below.

10-24-5

261
107.6 81.5
218.8 54.8
273.6 136.3 −0.85

39.5 53.7
93.2 −0.90
206.1 78.2
284.3 131.9 −0.94

Index above.

294.4 82.4
16.8
127.3 59.6
186.9 142.0 −0.73

308.0 54.7
2.7 −0.67
107.0 93.4
200.4 148.1 −0.61

−0.78

10-36-40

54 45.
10 27 22.
+5 +15.

15 27 37.
8188.6442

Sept 3, 1908

Index above.

293.6 81.3 ✓
10-38-20 14.9
130.4
184.4 54.0 ✓
135.3 ✓ -0.87 ✓

307.8 53.8 ✓
1.6 -0.88 ✓
116.0 81.0 ✓
197.0 134.8 ✓ -0.88 ✓

Index below.

206.7 80.3 ✓
287.0
40.7 49.9 ✓
90.6 130.2 ✓ -0.97 ✓

221.2 54.7 ✓
10-45-20 275.9 -0.96 ✓
83-40. ✓ 26.7 76.7 ✓
10 41 50. ✓ 103.4 131.4 ✓ -0.95 ✓
+5 +15.
15 42 5. S T 21 54 -0.92 ✓
6188.6543 ✓ H A 2h 40m
Dec +19.8 L. P. P.
P A 134.0 Ver B.
Sprocket -4.5 A
-3.5 B
-3.0 b

Mrs watch used for time. Watch 15 secs slow.

Sept 4, 1908 (Friday).

~~Comet Moore House~~

Comet Morehouse.

3 12 +67.9
27 12 +
18 40
8 32
12
3 28

27 12
18 52
8 20
12
3 40

27 12
19 50
8 22
12
3 44

27 12 ✓
19 51 ✓
7 21 ✓
4 39

Sept. 7, 1908 (Monday)

Fourth type star +59° 2810
Wob. Thompson rec. Phot. T.

~~+59~~ 24 2 +58.3
18 40
5 22
12
6 38

Full ap. used.

Sept 7. 1908

Color 6 with ordinary eye-piece.

Index right

194.3 < comp star dis

7-31-0 299.1 104.8

27.0

107.6 80.6

185.4

174.6 −0.10 ✓

204.2

289.8 85.6 −0.10 ✓

15.7

115.6 99.9

185.5

Index left. 174.5 −0.10 ✓

105.1

206.0 100.9

291.9 92.6

24.5 193.5

166.5 −0.25. ✓

109.5

7-37-15 198.6 89.1 −0.23 ✓

6 8 15. ✓

283.8

7 34 8. ✓ 26.0 102.2

191.3

tr 0. ✓ 168.7 −0.21 ✓

12 34 8. ✓

8188.5237 ✓ −0.16 ✓

Region thoroughly identified

Sept 7 1908.
Fourth Type star + 34° 4500.
Wob. Thompson rec Phot. T.

21 36 + 34.9
19 16
2 20
12
19 40

Full ap. used.

Sept 7, 1908
Color 5 in Phot.
Index left & above
42.4 ← 4th type des.

8-1-10 90.5 48.1
229.4 34.0
263.4 82.1 −2.13

46.2 37.3 −2.01
83.5
219.5 53.7
273.2 91.0 −1.89

8-7-23
8 33.
8 4 16.
+5 0.
13 4 16.
diff. 5 4 46

Index right & below.
315.6 44.5
0.1
140.8 32.7
173.5 77.2 −2.28

320.0 33.6 −2.23
353.6
132.6 46.9
179.5 80.5 −2.18

−2.12

Watch correction 0 secs.
W's watch used for times.

L. P. A.

Sept 8, 1908 (Tuesday)

W ob Thompson rec. Junct - ~~H~~Cap
Phot. T.

M. Ophiuchi

17 09 +1.4
18 50
1 41

For meas'ts, see fol. pages.

Sept 8, 1908

Index left   I

2076 ← Nar. dis.

7-27-21   284.5 76.5

358

94.6 58.8 / 135.3   −0.87

216.1 61.1

277.2   −0.78

22.0 83.6

105.6 144.7   −0.68

Index right.

1148 83.5

198.3

305.9 58.9

4.8 142.4   −0.73

129.0 57.4   −0.76

186.4

295.6 81.3

16.9 138.7   −0.80

7-34-0

61 21

7 30 40.

+5 25.

~~12 30 40.~~

12 31 5.

8193.5216

mean −0.77

Sept 8, 1908

Index right. II

117.2
7-41-16 195.5 78.3 ✓
308.5
5.9 57.4 ✓
135.7 ✓ −0.86

128.2 60.2 ✓ −0.78
188.4
295.0 83.3 ✓
18.3 143.5 ✓ −0.70

Index left.

22.2 84.4 ✓
186.6
217.0
275.3 58.3 ✓
142.7 ✓ −0.72

34.2
7-48-15 97.2 63.0 ✓ −0.68
265.2 83.3 ✓
288.5 146.3 ✓ −0.65

89 25. ✓
7 44 42. ✓
+5 +25. ✓

12 45 7. ✓ −0.73

8193.5313 ✓

Sept 8, 1908

Index left. III

8 4 0 assumed.

22.6		
109.5	86.9	
216.9	60.8	
277.7	147.7	−0.62
34.8		
95.7	60.9	−0.59
201.8	90.0	
291.8	150.9	−0.56

Index right.

292.4	87.5	
19.9		
123.6	64.6	
188.2	152.1	−0.53
305.3	63.1	−0.56
8.4		
114.1	86.3	
200.4	149.4	−0.59
		−0.58

8-12-40

16 40.

8 8 20.

+5 +25.

13 8 45.

8193.5877

Sept 8, 1908

Index right. IV.

8-16-10

291.6
193 87.7 ✓
125.7
189.9 64.2 ✓
151.9 ✓ −0.54

304.1 65.6 ✓
9.7 −0.52
112.1
200.1 88.0 ✓
153.6 ✓ −0.50

Index left.
206.9 83.1 ✓
290.0
33.3 64.1 ✓
97.4 147.2 ✓ −0.63

215.7 65.2 ✓ −0.57
280.9
21.9 88.3 ✓
110.2 153.5 ✓ −0.51

−0.54

8-26-20
42 30. ✓
8· 21 15. ✓
+5 +25. ✓
13 21 40. ✓
8193.5567 ✓

Sept. 8, 1908

Index left. V.

198.8
8-43-20 291.7 92.9✓
30.1
99.8 69.7✓
162.6✓ −0.33✓

215.3 63.8✓ −0.42✓
279.1
19.8
109.2 89.4✓
153.2✓ −0.51✓

Index right.
111.8
199.7 87.9✓
303.4 66.1✓
9.5 154.0✓ −0.50✓

~~124.2~~ ~~2~~
~~192.1~~ −0.44✓
~~8-50-10~~
291.2 91.4✓
8-50-50 22.6
124.0 69.1✓
9 4 10.✓ 193.1 160.5✓ −0.37✓
8 47 5.✓
+5 +25.✓ −0.43✓
13 47 30.✓
8193.5746✓

S.T. 20 28
~~HA~~ + 3h 15m
Dec. +1.9
P.A. 216.2 Ner. B
Sprocket − 8.5 B
− 7.5 b

Sept. 8, 1908
Color 5 with ordinary eye-piece
Fourth Type star +25° 205

25 6 +23.8
20 52
~~19 46~~

W. obs, Thompson rec.
Phot. I.

25 6 + 23.8
20 56
4 10
12
7 50

25 6
20 59
4 47
12

For measts. see next page.

Sept 8, 1908

Index above

134.0 ← 4th type dis.

10-11-30 177.8 43.8 ✓

319.7

351.2 31.5 ✓

75.3 ✓ -2.34 ✓

139.4 34.2 ✓ -2.34 ✓

173.6

315.9 41.0 ✓

356.9 75.2 ✓ -2.34 ✓

Index below.

45.6 41.7 ✓

87.3

233.8 25.7 ✓

259.5 67.4 ✓ -2.59 ✓

53.0 27.6 ✓ -2.54 ✓

80.6

226.3 42.6 ✓

268.9 70.2 ✓ -2.50 ✓

mean -2.44 ✓

10+5-40

30 10. ✓

10 15 5. ✓

+5 +25. ✓

15 15 30. ✓

8193.6358 ✓

Sept 8, 1908

Double star (new list) = Burnham's Cat
1781.

W obs. Thompson rec. Phot. R.

27 29 +63.5
21 55
5 34
12
6 26

27 29
21 55
4

P A 70° dis 0.8"± Mags 6.3 - 7.3

For meass., see next page.

Sept 8, 1908

Index right & below
11.7 S. pre. & bits dis.
10-38-30 68.5 56.8 ✓
187.0
246.5 59.5 ✓
116.3 ✓ 1.27 ✓

9.1
67.4 58.3 ✓ 1.30 ✓
190.3 55.2 ✓
245.5 113.5 ✓ 1.34 ✓

Index left and above.
281.0
335.4 54.4 ✓
100.4
157.0 56.6 ✓
111.0 ✓ 1.39 ✓

280.6
338.3 57.7 ✓ 1.37 ✓
10-44-15 100.3
82 45. ✓
10 41 22. ✓ 155.6 55.3 ✓
113.0 ✓ 1.35 ✓
+5 +25. ✓ Mean 1.34 ✓
15 41 47. ✓
8193.6541 ✓

No watch used for time.
Watch 25 secs. slow.

L. P. P.

Sept 9, 1908 (Wednesday)

Fourth Type star +34° 56

Phot I AW obs Thompson

24   29   +32
19   0
5   29
12
6   31

Color 5 in Phot. Sky very bright from full-moon and estimate of color difficult

Sept 9, 1908

Index right & above

283.8 Fourth type dis

7-52-17 291.9 88.1
336.0 60.0
96.0 148.1 − 0.61

214.6 63.4 −0.57
278.0
21.7 88.7
110.4 152.1 −0.53

Index left & below.

106.0 92.6
198.6
305.0 66.8
11.8 159.4 −0.39

121.2 68.6 −0.38
8-0-2 189.8
112 19 290.6
7 56 10. 22.0 91.4
+5 +19 160.0 −0.38
12 56 29. S.T. 19 31 − 0.48
8194.5392 R A − 4h 50m
Dec + 34.4
P A 156.3 Neu B
Sprocket − 35.3
− 2.56

Sept 9, 1908

After preceding observations, cleaned outer surfaces of achromatic prisms of Phot. T.

Fourth type star +9° 4369
Phot T N ob. Thompson rec.
19 44 + 8.5
20 00
— 46

Color 5 with ordinary eye-piece but estimate difficult on account of bright moon-light

Sept 9 1908

Index above

269 ← Var. dis.

8-46-10 110.0 83.1 ✓

216.2

275.4 59.2 ✓

142.3 ✓ −0.73 ✓

35.0 62.6 ✓

97.6 −0.75 ✓

206.9

284.6 77.7 ✓

140.3 ✓ −0.77 ✓

Index below.

295.0

20.5 85.5 ✓

125.1 62.9 ✓

188.0 148.4 ✓ −0.61 ✓

306.4 59.4 ✓ −0.65 ✓

8-52-10 5.8

98 20. ✓ 114.4 84.8 ✓

849 10. ✓ 199.2 144.2 ✓ −0.69 ✓

+5 +19. ✓

13 49 29. ✓ −0.70 ✓

8194.5760 ✓

S.T. = 20 23

H.A = +0h 30m

Dec = +9.8

P.A = 106. Ver B.

Sprocket = −1.5A

− 0.5B

+0.2C

Sept 9, 1908

Double star (new list) = Burnham's b at

2103 W ob. Thompson rec Phot R

28

4 9 +45.9

20 50

9 19

4 41

P.A 320° Dis 1.8″± Mags 6.2 - 7.1

Sept 9, 1908
Index right & above
271.4 S. fol & better dis
9-28-17 344.9 73.5
95.9
159.1 63.2 ✓
136.7 ✓ 0.84 ✓

276.2 62.6 ✓ 0.81 ✓
338.8
90.4 77.1 ✓
167.5 139.7 ✓ 0.78 ✓

179.1
255.2 76.1 ✓
9.1
68.0 58.9 ✓
135.0 ✓ 0.88 ✓

188.8
247.6 58.8 ✓ 0.92 ✓
9-36-37
64 54. ✓ 0.8 72.5 ✓
9 32 27. ✓ 73.3
131.3 0.95 ✓
5 +19. ✓
14 32 46. 0.86 ✓
8194.6061 ✓

Sept 9, 1908
Double star (new list) = Burnham's Cat
2451 28 Wob. Thompson rec Phot R
4 52 +629
21 18
7 34
12
4 26

PA 211° dis 32″

Sept 9, 1908
Index below

1
10-3-5

87.5 ← M fol + bite dis
171.0 83.5
267.0
350.0 83.0
166.5 0.25

87.9 82.3 0.26
170.2
267.1 84.0
351.1 166.3 0.26

4.7
79.4 74.7
180.0
258.5 78.5
153.2 0.51

1.5 73.9 0.49
75.4
177.6 81.5
259.1 155.4 0.47

0.38

10-9-35
12 40.
10 6 20.
+5 +19.
15 6 39.
8194.6296

Sept 9, 1908

Double star (new list) = Burnham's Cat.

1731 27 Nobs. Thompson see Phot R. 7-inch

27
3 24 +27.3
21 48
5 36
12
6 24

P.A 233° dis. 44″ mags. 6.9-7.3

Sept 9, 1908

Index above

177.0 ← M fol + bili dis.

10-27-35

260.9 239 ✓

1.9

76.6 74.7 ✓

152.6 ✓ 0.41 ✓

178.0 77.3 ✓

255.3 0.42 ✓

358.4

77.8 79.4 ✓

156.7 ✓ 0.44 ✓

167.6 88.6

~~270.0~~ 166.1 77.5 ✓

348.9 270.0

350.3 20.3 ✓

157.2 ✓ 0.42 ✓

84.6 25.2 ✓

10.35 40 169.8 0.32 ✓

271.0

6 3 15. ✓

10 31 32. ✓ 347.4 76.4 ✓

161.6 ✓ 0.35 ✓

+5 +19. ✓

15 31 57. ✓

0.40

2194.6472 ✓

As observer was uncertain about the disappearance of one of the images in the third set above, this set was retaken.

W's watch used for times
Watch 19 secs slow.

L. P. P.

Sept 14, 1908 (Monday)

U Ophiuchii
W obs. Thompson sec Phot T 7-inch cap.

17 9 1.4
19 10
2 1

For measts., see fol. pages.

Sept 14, 1908

Index left

I

7-30-12

203.1 ← Nar dis

289.5 86.4

33.3

98.0 64.7

151.1 −0.55

216.1 58.4 −0.58

~~0.60~~

274.5

21.4

110.6 89.2

147.6 −0.62

Index right:

110.6

201.0 90.4

304.3 62.8

7.1 153.2 −0.51

124.2 63.8 −0.50

188.0

292.3 90.1

22.4 153.9 −0.50

−0.54

7-36-43

66 55

7 33 22

+5 29

12 33 57.

8199.5236

Sept 14, 1908

Index right. II

110.9
7-42-20 195.0 84.1 ✓
305.9
10.0 64.1 ✓
148.2 ✓ −0.61 ✓

~~123.3~~
123.3 63.9 ✓ −0.55 ✓
187.2
290.8
21.3 90.5 ✓
154.4 ✓ −0.49 ✓

Index left.

24.4 83.4 ✓
107.8
218.1
276.4 58.3 ✓
141.7 ✓ −0.74 ✓

36.6 59.4 ✓ −0.74 ✓
7-50-10 96.0
206.0 82.0 ✓
288.0
141.4 ✓ −0.75 ✓

mean −0.64 ✓

92 30. ✓
7 46 15. ✓
+5 +29 ✓
12 46 44. ✓
8199.5324 ✓

Sept 14, 1908

Index left.

III

9-58-0

2056
287.4
38.0 Reject. – one reading wrong.
229

220.5
279.0 58.5
22.9
105.8 82.9
141.4 -0.75 -0.75

Index right.
110.8
197.9 87.1
305.8
82 62.4
149.5 -0.58

126.5
187.0 60.5 -0.62
294.0
18.5 84.5
145.0 -0.67

mean -0.68

8-7-0

12 5		0.
8	2	30.
+5		+29.
13	2	59.

8199.5438

Sept 14, 1908

Index right. IV

8-13-10

114.5
197.3 82.8✓
307.0
7.8 60.8✓
 143.6✓ −0.70✓

126.0 −0.72✓
180.4 54.4✓
290.5
18.2 87.7✓
 142.1✓ −0.73✓

Index left.

23.0
108.2 85.2✓
222.2
275.8 53.6✓
 138.8✓ −0.80✓

36.5 58.1✓ −0.79✓
94.6
205.7
287.5 81.8✓
 139.9✓ −0.78✓

mean −0.76✓

8-23-10

	3 6	20.✓
8	18	10.✓
+5		+29.✓
13	18	39.✓

8199.5546✓

Sept 14, 1908

Index left. V.

25.1 80.5
8-32-50 105.6
222.5
275.0 52.5
133.0 −0.92

38.8 54.6
93.4 −0.94
21~~1~~5.0
290.8 75.8
130.4 −0.97

Index right.
294.0 85.6
19.6
129.2
187.4 58.2
143.8 −0.70

308.2 57.0 −0.72
8-41-50 5.2
7 4 20. 115.2
8 37 10. 199.3 84.1
75 +29. 141.1 −0.75
13 37 39. ST 20 31 mean −0.83
8199.5698 HA 3h 23m
Dec +2.0
PA 216.1 Vn B
Sprocket. −8.5 B
−7.5 b

Sept 14, 1908

Doublestar (new list) = Burnham Cat
11387 4 obs. Thompson Phot R

21 52 + 5.4
21 20
  32

12
11 28

Almost impossible to move dome to above position, so this double abandoned.

O Ceti 4. obs. Thompson rec. Phot. R.

~~22~~ 26 12 + 3.6
27 0
4 12
12
7 48

For microm'r, see fol. page.

Sept 14, 1908

Index above
303.7 ← Nar dis

10-16-40

314.0 10.3
124.2
133.3 9.1 / 19.4 −5.36

304.6 9.2 −5.30
313.8
123.2
134.5 11.3 / 20.5 −5.24

Index below.
213.3 11.2
224.5
348 8.9
43.2 20.1 −5.28

214.5 9.0 −5.28
223.5
33.5 11.1
446 20.1 −5.28

10-24-35
~~10 2435~~

41 15.
10 20 38.
+5 +29.

15 21 7.
2199.6397

Mean −5.29

Sept 14, 1908.

Index below.

10-26-25

214.0
224.6 10.6 ✓
348.
43.6 8.8 ✓ / 19.4 ✓ −5.36 ✓

214.7 9.0 ✓ −5.36 ✓
223.7
33.9
44.4 10.5 ✓ / 19.5 ✓ −5.35 ✓

Index above.

123.6
134.3 10.7 ✓
304.2
313.7 9.5 ✓ / 20.2 ✓ −5.27 ✓

124.9
133.4 8.5 ✓ −5.32 ✓
303.5
314.4 10.9 ✓ / 19.4 ✓ −5.36 ✓

10-33-10

5	9	35. ✓
10	29	48. ✓
+5		+29. ✓
15	30	17. ✓

8199.6460 ✓

mean −5.34 ✓
Gen. mean −5.32 ✓
9.19 ✓
Final magn. = 3.87 ✓

W's watch used for time
Watch 29 secs slow.

L. P. P.

Sept 15, 1908 (Tuesday)

Morehouse's Comet.

~~26~~
~~7 10.~~ ~~+73.6~~

26
~~7~~ 1 +74.2
19 10
6. 51
12
5 9

HA −6 h 13 m
S.T. = 19 42 $+73^{\circ}.9$
25 55.

1^h 55^m

Sept 15, 1908

At eight hours nineteen minutes East. Time, the comet precedes.— by about two seconds, and is about ~~nin~~ 9″.2 north of it.

The comet seems to have somewhat of a nucleus as seen in the large telescope. Nucleus rather stellar and perhaps of ~~ten and five tenths~~ (~~10.5~~ 9.3) mag. Diameter of stronger part of coma about 1″. Diameter of total nebulosity perhaps 4″ or 5″ but the nebulosity outside of the stronger part of the coma is rather faint. At times, observer thinks there is possibly some indications of a tail extending a short distance from the comet but this phenomenon is at any rate faint and not strongly marked in large telescope. Total light effect of comet estimated as approximately equal to that of a 7.5 mag star. Comet easily seen also in large finder but not ~~radically bright~~ only fairly bright. It is also not a striking object in the large telescope but simply fairly bright. Atmospheric conditions

Sept 15, 1908

at time of examination rather good; sky pretty clear. Altitude above horizon approximately 35° or 40°

Double star (near last) = Burnham's Cat
12613 W. B. Thompson see Phot. R.

23 47 +11.3
21 7
2 40
12
9 20

PA 282° dis. 19" mags 6.9 - 7.5
For meas't see fol page

Sept 15 1908

Index right & below

272.7 Fol S. + bet dis.

9 23.5 341.8 68.3 ✓

91.9 74.5 ✓

166.4 142.8 ✓ 0.72 ✓

270.3 74.6 ✓ 0.68 ✓

344.9

95.4 71.6 ✓

167.0 146.2 ✓ 0.65 ✓

Index left & above.

2.0 70.5 ✓

72.5

181.0 74.0 ✓

255.0 144.5 ✓ 0.68 ✓

1.5 73.4 ✓ 0.69 ✓

9 30-10 74.9

184.0 70.2 ✓

254.2 143.6 ✓ 0.70 ✓

mean 0.68 ✓

Sept 15, 1908

Double star (new list) = Burnham's Cat
11387 Nob. Thompson sec Phot R

21 52 +5.4
21 30
22
12
11 38

PA 55° dist. 10" mags. ~~6.9-7.3~~ 7.0-7.4

For meast see fol page.

Sept 15, 1908
Index right + above
264.1 ← S. pre. f bstr. dis
9-45-25 352.1 88.0
84.8
165.5 80.7
168.7 0.21

272.2 0.32
347.9 75.7
87.0
168.8 81.8
157.5 0.43

Index left + below.
359.0
78.1 79.1
181.3
254.4 73.1
152.2 0.53

358.8 76.7 0.48
9-53-25 75.5
183.8 80.6
264.4 157.3 0.43

Mean 0.40

Sept 15, 1908

Double star (new list): Burnham's cat
747 W.P. Thompson sec

25
× 19 + 30.9
22 5
3 14
12
8 46

P.A. 105° Dist 1.0± Mags. 7-7-7.7
For meas't see fol page

W

Sept 15, 1908
Index right
357.0 ← Prec. dis.
10-21-35 84.0 27.0✓
172.1 90.0✓
262.1 177.0✓ −0.06✓

354.5
84.8 90.0✓ 0.00✓
172.1
266.0 93.9
123.9✓ +0.07✓
Index left. 176.1✓
261.0
352.3 91.3✓
82.0
171.0 29.0✓
120.3✓
179.7✓ +0.01✓

263.4 29.2✓ +0.00
10-29-10 352.6
83.5 29.7✓
173.2 178.9✓ −0.02✓
mean +0.00✓

W.R. watch used for times.
Watch 24 secs. slow.

L.P.P.

Sept. 18. 1908 (Friday).

Double Star (new list) = Burnham's Cat. 12613.
Phot. R. H. obs.

23 47 +11.3
Abandoned. Too thick at present.

Double Star (new list) = Burnham's Cat. 11862.
22 33 +72.3 Phot. R.
20 5
-x 2 28
~~9 27~~
9 32

For measts. see next page.

Sept 18, 1908 left
Index below

~~954~~

96.5 ← N prec + btr dis

8-8-20

1623 65.8
2650
3479 82.9 / 148.7 0.60

85.4 84.6 0.62
170.0
276.3 62.8
339.1 / 147.4 0.63

Index above

09
70.1 ~~69.2~~ 69.2
1782
2580 ~~98.6~~ 79.8
~~356.6~~ ~~167.8~~ / 149.0 0.59

356.6 0.61

8 1550 ~~#~~790 82.4

186.0 65.0
251.0 / 147.4 0.63

Mean 0.62

Night poor only a few stars visible, images rather dim although altitude is rather high. Observations however considered pretty good.

Sept 18, 1908

Smoke now much thicker only three stars now visible and those first magnitude stars near the zenith. Smoke thick no chance for any thing further

V

No watch used for times
Watch 20 secs slow.

Sept 19, 1908 (Saturday)

RX Herculis
Wob. Thompson rec Phot T 9.5 in-cap
18 16 +12.0
19 50
1 34

For measts. see fol. pages.

Sept 19, 1908

Index left above B.

I

2186 ← Nar dis.

8-2-55

2743 55.7✓

47.5

877.4 39.9✓

95.6✓ −1.77✓

228.6 35.8✓ −1.83✓

264.4

39.2 55.0✓

942 90.8✓ −1.89✓

Index right and below. A.

125.3 60.1✓

185.4

317.0 41.0✓

358.0 101.1✓ −1.63✓

137.0 40.7✓ −1.60✓

177.7

8-12-35

305.1 62.6✓

7.7 103.3✓ −1.58✓

15 30.✓

8 7 45.✓

45 +29.✓

13 8 14.✓

8204.5473✓

mean −1.72✓

Sept 19, 1908

Index right + below. A.

II

8-22-55

1245
186.1 61.6^r
315.5
358.5 43.0^r
104.6^r -1.54^r

134.1 44.3^r -1.52^r
178.4
305.8 62.5^r
8.3 106.8^r -1.49^r

Index left + above. B.

37.5 57.7^r
95.2
226.0 39.8^r
265.8 97.5^r -1.72^r

~~463~~
448 41.7^r -1.70^r
86.5
218.3 57.5^r
275.8 99.2^r -1.68^r
mean -1.61^r

8-32-50

55 45.^{r}
8 27 52.^{r}
+5 +29.^{r}
13 28 21.^{r}
8204.5614

Sept 19, 1908

Index left and above. B.

III

8-38-50

35.6
96.1 60.5✓
220.6
264.2 43.6✓
104.1✓ −1.56✓

46.8 39.8✓ −1.65✓
86.6
217.3 56.7✓
274.0 96.5✓ −1.74✓

Index right + below. A.

304.7 64.5✓
9.2
134.4 45.1✓
179.5 109.6✓ −1.43✓

315.2 45.6✓ −1.40✓
0.8
122.6 66.7✓
189.3 112.3✓ −1.36✓

mean −1.52✓

8 48 3

8 6 53.✓
8 43 26.✓
+5 +29.✓
13 43 55.✓
2 204.5721

Sept 19, 1908

Index right + below A.

IV

8-58-7

304.1
9.6 65.5✓
132.3
179.4 47.1✓
112.6✓ −1.36✓

311.8 49.5✓
1.3 −1.34✓
123.5 65.4✓
188.9 114.9✓ −1.31✓

Index left + above. B.

216.5 60.9✓
277.4
42.4 47.1✓
89.5 108.0✓ −1.46✓

225.4 42.1✓ −1.50✓
267.5
34.5 62.3✓
96.8 104.4✓ −1.55✓

mean −1.42✓

9-7-37

12	5	44.✓
9	2	52.✓
+5		+29.✓
14	3	21.✓

2204.52257✓

Sept 19, 1908

Index left + above. B.

V

216.6	61.6		
278.2			
43.7	44.9		
88.6	106.5	-1.50	
224.0	44.5		-1.48
268.5			
34.8	64.2		
99.0	108.7	-1.45	

Index right + below. A.

121.6	68.6		
190.2			
315.1	44.3		
359.4	112.9	-1.35	
132.8	46.8		-1.33
179.6			
302.7	68.1		
10.8	114.9	-1.31	

mean -1.40

9-12-5

9-21-15

33 20.
9 16 40.
+5 +29.
14 17 9.
8204.5952

S.T. 21 41
H.A. 3h 16m
Dec +12.0
P.A. 150.2 Nu.B
Sprocket -4.5 B
-3.5 6

Sept 19, 1908

ε Aurigae.

Wob Thompson rec Phot T 7 inch cap

28

~~4~~ 52 +436

22 5

6 47

12

5 13

For measts. see fol. pages.

Sept 19, 1908

Index right + above A.

Var. dis.

10-11-20

1472
168.8 21.6 ✓

327.8 14.9 ✓
342.7 36.5 ✓ - 3.97 ✓

151.0 16.0 ✓ - 3.93 ✓
167.0

323.6 21.9 ✓
345.5 37.9 ✓ - 3.89 ✓

Index left + below B.

55.0 20.6 ✓
75.6

239.6 13.5 ✓
253.1 34.1 ✓ - 4.12 ✓

59.3 14.5 ✓ - 4.09 ✓
73.8

10-18-40

236.1 20.6 ✓
256.7 35.1 ✓ - 4.06 ✓

mean - 4.01 ✓

3 0 0. ✓
10 15 0. ✓
+5 +29. ✓
15 15 29. ✓
Δ 204.6359 ✓

Sept 19, 1908

Index left + below. B.

10-22-10

544
75.6 21.2
240.0
253.4 13.4
34.6 −4.09

589 13.3 −4.10
72.2
236.6 20.8
257.4 34.1 −4.12

Index right + above. A.

324.2 22.0
346.2
150.4 14.6
165.0 36.6 −3.96

328.2 14.2 −3.92
342.4
147.6 21.6
169.2 35.8 −4.01

mean −4.04

Gen. mean. = −4.02

10-30-2

	52	2.
10	26	1.
+5		+29.
15	26	30.

&204.6434

S. T. 22 47
H A − 6h 6m
Dec +43.5
PA 358.2 Nir B
Sprocket = − 8.5 A
− 7.5 B
− 7.0 b

Niswatch used for time
Watch 29 secs slow.

L. P. P.

Sept 21, 1908 (Monday)

R Z Cassiope

W. ob. Thompson rec Phot T

26
~~2~~ 36 +69.0
19 50

6 46
1 2

5 14

Sept 21, 1908
Index above

316.8 37.5
7-49-30 354.3
143.0 26.0
169.0 63.5 2.73

323.9 25.7
349.6 2.68
136.5
177.4 40.9
66.6 2.62

230.9 31.3
262.2
54.7
75.5 24.8
52.1 3.18

236.2 3.08
7-58-30 257.1 20.9
48.0
84.1 36.1
57.0 2.98

2.88

Sept. ~~19~~ 21. 1908

230.6
8-2-41 262.6 32.0
56.9
76.0 $\frac{19.1}{51.1}$ 3.23

237.1
257.9 20.8 3.15
49.0
82.8 $\frac{33.8}{54.6}$ 3.07

187.0
175.5 32.5
323.3
346.7 $\frac{23.4}{61.9}$ 2.79

147.2
8-11-57 169.1 21.9 2.87
317.5
353.2 $\frac{35.7}{57.6}$ 2.95

3.01

~~S~~T 20 47
H A -5h 58m
P.A. 27.4 Nu B
Dec +69.0
Sprocket - 2.5 A
-1.5 B
-1.0 C

Sept 21, 1909

k Sky rather cloudy during observations It is that of a rather dense murkiness the wind being from the S. W. and damp. Observations were difficult throughout and images very frequently changing in brightness owing to the varying density of the clouds. Observations on this star could not be continued further.

Double star (new list): Burnhams Cat 8916

$$\begin{array}{rrl} 18 & 50 & +338. \\ 21 & 15 & \\ \cline{1-2} 2 & 25 & \end{array}$$

P. A 140 dist 0.8'±

Sept ~~19~~ 21. 1908

Index above.

111.7 BM prec + btr dis

1- 9-8-40 146.9 35.2

294.6

325.1 30.5 65.7 2.65

106.2

147.4 41.2 2.46

291.5

327.5 36.0 77.2 2.24

24.1

51.6 27.5

205.0 31.0

236.0 58.5 2.92

23.9 33.4 2.74

9-15-40 57.3

203.0

237.6 34.6 68.0 2.57

2.60

Night very poor. The above double is not the one wanted and in this sky the right double is not easily found. Observations very difficult – only two or three first magnitude stars now visible No chance for anything further.

Sept. 21. 1908.

Ws watch used for times
Watch 32 secs slow.