

KG

11365  
667

12 Inch  
Polar

July - 1935



KG 11365.667



156 11365 1667



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Sunday

JUL 21 1935

E.S.T.  
from  
noon12" Polar telescope Photo. T.  
Ols. W.F.S.  
Nova Her.C.S. B.D.  $45^{\circ} 2662$   
Clock correction Watch  $26^s$  fast of Ballou  
Hazy night with light clouds

9:07:15

183.5 <sup>novaris</sup>

229.0

45.5

4.2

44.9

49.1

90.4

1.90

1.89

181.8

48.2

230.0

43.1

6.3

91.3

1.88

49.4

Mean -1.98

280.5

38.4

318.9

44.1

92.0

82.5

2.12

136.1

2.07

267.8

50.8

318.6

35.5

101.0

86.3

2.01

9:14:00

136.5

JUL 21 1935

II

Same as preceding page.

obs. W.T.S.

9:20:20

94.1	50.1
144.2	<u>45.1</u>
273.5	95.2
318.6	

1.78

1.91

96.5	43.5
140.0	<u>42.0</u>
277.8	85.5
319.8	

2.04

mean -1.98

188.4	40.2
228.6	<u>43.0</u>
5.0	83.2
48.0	

2.10

2.06

186.8	43.4
230.1	<u>42.8</u>
3.5	86.2

2.02

9:32 10

46.3



JUL 21 1935

III

Same as preceding page.

(clouded over completely about 10.30)  
obs. W.E.S.

10:02:30

184.2 43.4

227.6 40.9

5.5 84.3

46.4

2.07

2.04

183.6 43.9

227.5 42.6

7.5 86.5

50.1

2.01

Mean

-2.01

278.1 41.7

319.8 42.5

95.0 84.2

137.5

2.07

1.98

274.1 47.0

321.1 44.2

95.9 91.2

10:15:30

140.1

1.88

Wednesday JUL 24 1935

E.S.T

from noon

12" Polar telescope Photometer T

Obs W.F.L.

Novae Her.

C.S.  $+45^{\circ}$  2662

Watch 51<sup>s</sup> past of Ballou

(Numerous light clouds. Bad Photometer night)

8:31:42

98.5 <sup>novae</sup> 37.3

135.8 40.0

279.4 77.3 2.28

319.4

2.21

93.1 45.4

138.5 36.3

278.5 81.7 2.14

314.8

mean -1.84

183.9 48.0

231.9 57.3

355.5 105.3

529 1.53

1.46

180.9 61.3

242.2 50.1

2.1 111.4 1.39

8:25:22

52.2



JUL 24 1935

Same as preceding page

II

8:36:32

184.2 <sup>humid</sup> 48.3232.5 48.4

4.5 96.7

1.74

52.9

1.78

187.8 45.7

233.5 47.7

4.5 93.4

1.82

52.2

Mean -1.76

277.1 42.0

319.1 52.1

94.0 94.1

1.81

146.1

1.73

269.5 54.3

323.8 46.0

91.5 100.3

1.65

8:40:22

137.5

JUL 24 1935



g 49.47

91.6	49.0	
140.6	53.4	
269.8	102.4	1.60
323.2		

160

88.0	54.6	
142.6	47.7	
274.8	102.3	1.60
322.5		

mean - 1.65

183.0	50.8		
233.8	50.6		
358.4	101.4	1.62	1.69
49.0			

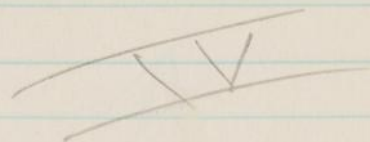
165.0	48.8	
233.8	47.4	
0.0	96.2	1.75

g 57.37

47.4



JUL 24 1935



9:22:22    179.9    50.5  
              230.4    43.2  
              2.7    93.7    1.82  
              45.9

1.81

182.7    52.3  
 235.0    42.6  
          2.8    94.9    1.79  
          45.6

mean -1.71

275.5    42.0  
 317.5    55.2  
          86.9    97.2    1.73  
          142.1

1.61

270.0    60.0  
 330.0    47.5  
          97.6    107.5    1.48

9:31:37    145.1

JUL 24 1935



9:45:37

94.3	38.3
132.6	<u>50.4</u>
271.6	88.7
322.0	

1.95

1.90

93.1	47.4
140.5	<u>45.0</u>
276.9	92.4
321.9	

1.85

mean - 1.83

98.6	40.6
139.2	<u>53.5</u>
270.0	94.1
323.5	

1.81

1.75

90.0	49.0
139.0	<u>49.6</u>
271.6	98.6
321.2	

1.69

10:00:22



JUL 24 1935

~~VI~~

(After this set the sky became too clouded to continue)

10:13:37

96.5 43.7

140.2 48.0

273.0 91.7

1.87

321.0

1.90

94.6 44.9

139.5 45.0

276.4 89.9

1.92

321.4

mean -1.77

185.6 44.2

229.8 57.4

0.2 101.6

1.62

57.6

1.63

180.4 48.6

229.0 52.5

2.5 101.1

1.63

10:22:07

55.0

Friday

JUL 26 1935

I

12" Polar telescope

Photo. T

Nova Her.

Obs. W.F.S.

E.S.T. from  
noon

c.s. B.O. + 5 2662

Clock correction - Watch 6<sup>s</sup> slow of BallouNumerous light clouds which increased in  
number till it became too cloudy to work 11.00 P.M. E.S.T.8:42:00

181.0

minutes

51.9

232.9

44.4

4.5

96.3

1.75

48.9

1.84

186.0

46.2

232.2

43.5

3.0

89.7

1.92

46.5

Mean - 1.95

278.6

36.4

315.0

44.5

96.5

80.9

2.17

141.0

2.05

274.3

48.7

323.0

41.1

97.0

89.8

1.92

8:52:30

138.1



JUL 26 1935

II

Same as preceding page.

8:54.00 97.0 <sup>more obs</sup> 42.2  
 139.2 52.0  
 274.5 94.2 1.80  
 326.5

1.92

91.1 49.7  
 140.8 35.6  
 280.6 85.3 2.04  
 316.2

Mean - 1.85

185.5 45.8  
 231.3 50.3  
 357.5 96.1 1.75  
 47.8

1.78

181.8 53.2  
 235.0 41.3  
 3.2 94.5 1.80

9:04.00 44.5

JUL 26 1935



same as preceding page.

9:13:30

186.3 <sup>now dis</sup> 44.0

230.3 44.8

3.6 88.8

1.95

48.4

1.99

188.0 46.0

234.0 40.0

5.0 86.0

2.02

45.0

mean - 1.97

278.2 38.5

316.7 51.9

87.6 90.4

1.90

139.5

1.94

275.8 48.3

324.1 39.7

99.6 88.0

1.97

9:23:00

139.3



JUL 26 1935

IV

9:32:05

95.5 <sup>new</sup> 45.5

141.0 53.5

269.0 99.0 1.68

322.5

1.68

91.0 53.5

144.5 46.0

275.0 99.5 1.67

321.0

Mean -1.96

190.2 35.9

226.1 42.2

8.8 78.1 2.25

51.0

2.24

185.0 44.1

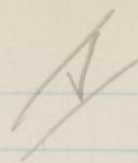
229.1 34.9

11.6 79.0 2.22

9:41:00

46.5

JUL 26 1935



same as preceding page

9:49:30

184.0	<sup>nova dis</sup> 44.0	
228.0	44.2	
4.1	88.2	1.96
48.3		

183.0	<del>47.9</del>	
230.9	<del>43.2</del>	
5.0	91.1	1.88
48.2		

1.92

Broad set  
clouds passing  
over region

mean. -1.78

273.5	43.9	
317.4	52.5	
91.0	96.4	1.75
143.5		

1.63

263.0	62.8	
325.9	43.4	
95.6	106.2	1.51

9:59:00

139.0



JUL 26 1935

VI

Same as preceding page.

Clouds cleared off a little

16:45:00

5.8 <sup>provis</sup>	36.7	
42.5	<u>42.0</u>	
184.0	78.7	2.23
226.0		

2.10

7.0	45.0	
52.0	<u>43.1</u>	
184.9	88.1	
228.0		1.96

Mean -1.92

100.5	32.1	
132.6	<u>63.1</u>	
264.9	95.2	1.78
328.0		

1.73

90.0	56.6	
146.6	<u>42.5</u>	
277.2	99.1	1.68
319.7		

10:58:00

Lat

JUL 27 1935

12" Polar telescope  
nova Her.Photo. T  
obs. W.F.S.E.S.T. from  
noonClock Correction - watch 4<sup>s</sup> fast, Balan

C.S. BD. +45° 2662

Hazy sky

(Stars difficult to  
compare because of  
difference in magnitude)

8:32:00

177.8 <sup>minutes</sup> 55.2

233.0 49.6

0.5 104.8

50.1

1.54

1.67

181.5 48.0

229.5 46.4

3.6 94.4

1.80

50.0

mean -1.73

275.8 44.2

320.0 56.0

91.0 100.2

1.65

147.0

1.79

273.2 52.3

325.5 37.1

100.8 89.4

1.93

137.9

8:47:00



JUL 27 1935

II

Same as preceding page

Ch 428

8:50:00

92.1 <sup>invaded</sup> 44.6

136.7 48.0

273.0 92.6

1.84

321.0

-1.95

94.5 44.0

138.5 41.2

274.6 85.2

2.05

315.8

Mean -1.97

182.6 47.1

229.7 45.4

4.7 92.5

1.85

50.1

-1.99

185.0 42.0

227.0 40.6

8.5 82.6

2.12

9:06:00

49.1

JUL 27 1935

same as preceding page

obs wts

9:24:00

181.5	45.0	
226.5	47.5	
4.1	92.5	1.85
51.6		

1.97

185.9	41.7	
227.6	42.2	
8.1	83.9	2.08
50.3		

mean -1.84

270.8	50.0	
320.8	46.9	
93.1	96.9	1.73
140.0		

1.70

270.5	49.5	
320.0	49.8	
95.0	99.3	1.67
144.8		

9:36:00



JUL 27 1935

14

Same as preceding page

alt wt. 8

9:51:30

$$\begin{array}{r}
 94.5 \text{ normal obs} \quad 48.5 \\
 143.0 \quad \underline{49.4} \\
 \rightarrow 271.1 \quad 97.9 \quad 1.71 \\
 320.5
 \end{array}$$

1.87

$$\begin{array}{r}
 94.0 \quad 45.0 \\
 139.0 \quad \underline{41.2} \\
 \rightarrow 277.8 \quad 86.2 \quad 2.02 \\
 319.0
 \end{array}$$

mean -1.88

$$\begin{array}{r}
 184.0 \quad 49.0 \\
 233.0 \quad \underline{45.1} \\
 \rightarrow 9.9 \quad 94.1 \quad 1.81 \\
 53.0
 \end{array}$$

1.88

$$\begin{array}{r}
 183.0 \quad 44.5 \\
 227.5 \quad \underline{44.7} \\
 \rightarrow 3.5 \quad 89.2 \quad 1.94
 \end{array}$$

10:01:30

48.2

JUL 27 1935

~~1~~

ens. wts

Nova Her.

C.S. B.A.  $+146^{\circ}$  2426

10:24.00

79.5	<sup>weights</sup> 75.3	
154.8	<u>82.6</u>	
256.9	157.9	0.42
339.5		

0.44

77.0	86.1	
163.1	<u>70.5</u>	
260.0	156.6	0.45
330.5		

mean - 0.50

176.9	66.1	
243.0	<u>95.0</u>	
343.0	161.1	0.36
78.0		

0.55

166.0	84.2	
250.2	<u>60.0</u>	
359.0	144.2	0.69
58.0		

10:38.00



JUL 27 1935

Same as preceding page.

also WTS.

c.s.B.D. + 46° 2426

10:46:00

173.2	69.8	
243.0	<u>75.5</u>	
349.0	145.3	0.67
64.5		

0.57

168.0	79.5	
247.5	<u>76.0</u>	
352.0	155.5	0.47
68.0		

Mean - 0.50

262.9	73.6	
336.5	<u>87.6</u>	
72.9	161.2	0.36
160.5		

0.42

257.8	86.1	
343.9	<u>69.5</u>	
82.4	155.6	0.47

10:57:00 151.9

JUL 27 1935

111

cls wtl

CS B.D. +46° 24' 26"

11:05:30

78.0	75.8	
153.8	77.0	
259.5	152.8	0.52
336.5		

0.69

77.1	80.8	
157.9	55.6	
256.9	136.4	
332.5		0.85

mean -0.56

171.5	76.0	
247.5	88.0	
340.5	164.0	0.30
68.5		

0.43

165.5	86.2	
251.7	65.2	
355.2	151.4	0.55
60.4		

11:15:30



JUL 27 1935

IV

obs with

C.S. B.D.  $+46^{\circ}$  2426

11:25:00 172.1 <sup>reads</sup> 70.5  
 242.6 80.5  
 344.5 151.0 0.56  
 65.0

0.61

168.1 72.5  
 240.6 73.4  
 349.0 145.9 0.66  
 62.4

mean -0.54

260.6 67.4  
 328.0 85.6  
 76.5 153.0 0.52  
 162.1

0.46

344.5 254.6 84.2  
 338.8 75.4  
 82.5 159.6 0.39

11:36:30 157.9

Sunday JUL 28 1935

12" Polar telescope Photo T  
 E.S.T time Nova Her. Ols. W.F.S.  
 from C.S. B.D. +48° 2426  
 noon. Clock. Camera Watch 25<sup>th</sup> test of Balboa  
 light clouds generally fair

8:19:45

~~67.5 <sup>max?</sup> 86.4  
 1539 98.3  
 250.0 184.7  
 348.3~~

~~65.9 109.1  
 175.0 90.1  
 252.5 199.2  
 342.6~~

~~155.9 106.6  
 262.5 99.0  
 338.0 56  
 72.0~~

~~150.5  
 265.0  
 336.6~~

8:29:30

~~77.6~~



JUL 28 1935

Same as preceding page.

C.S. wt. 8.

C.S. B.D.  $+45^\circ$  2662

8:40:00

94.6	46.6	
141.2	<u>63.8</u>	
267.6	110.4	
331.4		1.41

1.64

85.6	53.8	
139.4	<u>38.2</u>	
278.4	92.0	1.86
316.6		

Mean -1.81

183.5	44.1	
227.6	<u>42.0</u>	
7.0	86.1	2.02
49.0		1.98

184.1	47.4	
231.5	<u>41.9</u>	
6.0	89.3	1.93
47.9		

8:51:15

JUL 28 1935

Obs. W.F.S.

C.S. B.D. +  $45^{\circ}$  2662

9:14.00

186.2	43.3	
229.5	46.1	
2.9	89.4	1.93
49.0		

2.00

180.4	45.8
226.2	38.5
7.0	84.3
45.5	

2.07

mean -1.96

272.8	44.8
317.6	41.7
97.8	86.5
139.5	

2.01

1.91

273.6	48.0
321.6	45.8
94.0	93.8
	181

9:24.30

139.8



JUL 28 1939

cls. wtl

c.s. B.D + 45° 2662

9:38.00 1 273.6 <sup>marked</sup> 45.9  
 319.5 47.8  
 93.8 93.7 1.82  
 141.6

1.81

270.5 52.0  
 322.5 42.2  
 98.5 94.2 1.80  
 140.7

mean -1.99

5.4 39.5  
 44.9 42.5  
 185.1 82.0 2.14  
 227.6

2.17

9.2 42.6  
 49.8 37.3  
 188.3 79.9 2.20  
 9:47:00 225.6

JUL 28 1935

Ola w.f.s.

C.S. B.O. + 45° 2662.

10:09:45

4.5 <sup>para dis.</sup> 45.0  
 49.5 44.7  
 153.8 89.7  
 228.5

1.92

1.95

3.5 44.6  
 48.1 43.3  
 187.2 87.9  
 230.5

1.97

Mean - 1.93

98.0 44.2  
 142.2 44.8  
 276.2 89.0  
 321.0

1.94

1.90

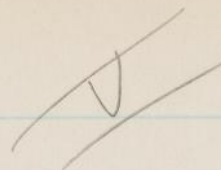
91.4 48.7  
 140.1 43.3  
 275.8 92.0  
 319.1

1.86

10:20:00



JUL 28 1935



0.12 w.f.s.

C.S. B.D +45° 2662

10:27:05  
 96.0 <sup>mm</sup> 43.5  
 139.5 45.5  
 276.1 89.0 1.94  
 321.6 2.03

95.5 42.6  
 138.1 39.8  
 275.2 82.4 2.12  
 315.0

mean -1.97

185.5 44.5  
 230.0 42.1  
 4.5 86.6 2.01  
 46.6

1.90

184.0 46.5  
 230.5 48.6  
 1.2 95.1 1.78

10:39:30 49.8

JUL 28 1935

VI

Obs WTS.

C.S. B.D.  $+45^{\circ}$  2662.

10:46:00

187.2 <sup>mean</sup> 42.8

230.0 40.5

6.8 83.3

2.10

47.3

2.10

186.7 40.1

226.8 43.3

2.0 83.4

2.10

45.3

mean - 2.08

274.9 42.6

317.5 43.0

94.5 85.6

2.03

137.5

2.06

277.3 44.5

321.8 39.3

96.8 83.8

2.08

10:56:45

136.1



JUL 28 1935

VII

Obs. w. 48.

C.S. B.D.  $+45^{\circ}2662$ 

11:05:00

92.2	48.8	
141.0	41.7	
277.8	90.5	1.90
319.5		

1.94

96.0	39.5	
135.5	48.0	
272.5	87.5	1.98
320.5		

Mean -1.92

183.6	46.8	
230.4	41.7	
8.3	88.5	1.95
50.0		

1.90

182.5	46.7	
229.2	45.9	
6.1	92.6	1.84

11:15:00 52.0

EST  
from  
Nova

9 30

Tues. Aug. 6, 1935

LC Alb 12" Polar

Nova Her 180445

est 7.1 (comp with 7.4\*)



Wed. Aug 7, 1935

JD 2428022

EST  
from  
noonNova Her. Phot T<sub>r</sub>  
12" Polar.

Est LC = 7.1

Comp X = 7.4 \*  
= +46°.24 26

Obs. LC

Rec. J. S. Baper

8:25

255.2 No. dis.

R.I. 326.2

71.5

142.7

71.0 -

21.2 -

142.2 - 0.73

251.2

R.I. 323.6

75.8

151.6

R.P.

224

258

148.2 - 0.61

(-145.2) - 0.67

mean - 0.30

0.30

58.6

R.I. 128.2

245.2

333.0

&lt; es dis 696

278

157.4 + 0.43

64.0

R.I. 150.2

238.0

346.8

862

108.8

195.0

165.0 - 0.29

+ 0.07

8:30

27.5

28022.56

Troubled by clouds & poor light  
for reading circle

Aug. 7 - 1935

<sup>II</sup>  
 106 J. G. Parker  
 Rec PC

8 36.0 56.0 cos dis  
~~94.6~~  
~~248.6~~

282.9 New Start

9 5.0 56.7 Nova dis  
 131.8 75.1  
 232.3 94.2  
 327.0 169.8 - 0.19

51.9 - 0.14  
 149.5 97.6  
 237.1 77.2  
 315.8 175.3 - 0.09

R Phot

224.2 cos dis

333.6 109.4

57.3 72.6

129.9 182.0 - 0.04

178.0

249.0

+ 0.14

318.1

59.1

45.3

104.1

9 16.5

149.4

163.2

+ 0.32

Experimental  
 0.00



Aug. 7-1935

EST.  
9:30.III  
Obs. J. D. Baker  
Rec. "

236.2	← n. dir.		
324.0	←	87.8	
57.2		<u>77.3</u>	
134.5		165.1	- 0.29

232.3			- 0.16
320.5	←	88.2	
61.1		<u>89.9</u>	
151.0		178.1	- .003

Rev Phot

mean = - 0.29

246.1	← c. 5. dir.		
316.9		70.8	
66.6	←	<u>74.8</u>	
141.4		145.6	- 0.66

238.9			- 0.42
327.6	←	88.7	
65.1		<u>80.2</u>	
145.3		168.9	- 0.19

9 Hot  
 9 35  
 1485  
 28022.600

Thurs. Aug. 8, 1935  
 Sat LC 72

Nova Herculis

I

J.D. 2428023

Phot. T.

12" Polar

Comp. \* = 7.4\*

E-S.T. from noon.

8:30

71.6 / Nova dec.

153.1

81.5

RI 259.8

67.6

327.4

149.1

Obs. L.C.  
 - 0.59 Rec. J.D. Baker

84.2

RI 143.7

59.5

255.1

79.1

334.2

138.6

- 0.80

R.P.

164.2

- 0.45

RI 239.2

75.0

339.1

86.8

65.9

161.8

- 0.37

156.9

0.20

RI 249.2

92.3

341.0

86.7

8:35

67.7

179.0

- 0.02



Aug. 8 - 1935

II

Baker Ck.  
LC Rec

8 370

149.0 &lt; Nova Dra

259.4

110.4

328.3

105.1

73.4

215.5

144.5

+ 0.68

149.0

254.9

105.9

332.2

99.4

71.6

205.3

154.7

+ 0.48

Rev Plot

+ 0.24

~~330.4~~

69.6

160.3

90.7

249.6

23.6

333.2

174.3

- 0.11

65.8

- 0.10

160.0

94.2

253.2

81.0

8 440

334.2

175.2

- 0.09

Aug 8 - 1935

III

J. S. Baker Oa, Rec.

8:53

181.9	181.9	
RI 279.8	97.9	
356.4	<u>100.8</u>	
96.4	207.9	
	151.3	

+ 0.55

186.9

+ 0.26

RI 279.3	92.4
7.8	<u>86.5</u>
94.3	178.9

- 0.02

R.P.

282.2

- 0.06

351.1

68.9

104.5

83.1

187.6

152.0

- 0.54

287.8

- 0.37

RI 6.9	79.1
100.4	<u>90.0</u>

9:03

190.4

169.1

0.20



Aug. 8 - 1935

IV

J. S. Baker, Obs., Rec.

9:05

282.0

RF 3.9

104.1

191.8

81.9

87.7

169.6

- 0.20

- 0.49

- 283.6

RF 352.9

102.8

173.2

R.P.

do 4.8

RF 91.2

186.4

272.1

169.3

70.4

139.7

- 0.78

- 0.29

86.4

85.7

172.1

- 0.15

- 0.09

7.3

RF 93.2

191.0

283.1

85.9

92.1

178.0

- 0.04

9:15

Dec bright  $\lambda_2 = +45.0$ "  $\lambda_{ra} = +45.5$

August 12, 1935.

Obs. Mag. Nova H. 180445 = 7.4 J.D. 2428027

12" Polar.

E.S.T.

8:04

134.7 Nova Dis.

Observer - J. G. Baker.

220.2

85.5

Recorder - "

R.I.

327.6

71.4

—

39.0

156.9

.44

Comp. \* = 7.4

144.1

218.0

73.9

R.I.

320.2

82.7

—

.45

42.9

156.6

R. Photo.

218.0

.00

327.6

109.6

R.I.

41.3

99.5

+

+.56

140.8

209.1

225.3

O.S. Dis.

321.6

96.3

R.I.

43.2

100.8

+

+.32

8:20.

144.0

197.1

Bothered by Moonlight &amp; light in Obs. Room



Aug. 12, 1935.

Obs. Mag. Nova H. = 7.46

Same.

E.S.T.

8:45

145.0

← Nova Dis.

224.4

79.4

RT

328.1

62.1

Comp. x = 7.4

.74

30.2

141.5

151.2

218.0

66.8

RT

320.5

84.5

.55

45.0

151.3

R. Phot.

+.06

217.6

330.0

112.4

RT

35.6

112.5

+

.87

148.1

224.9

220.4

← C.P. Dis.

325.7

105.3

RT

35.9

110.1

+

.68

8:59

146.0

215.4

Bothered by Moonlight &amp; light in Obs. Room.

Aug. 12, 1935

Obs. 7.24

Nova Herc.

Same

C.S. \* = 7.4.

Obs. J.G. Baker.

E.S.T.

9:45

64.3

← C.S. Dis.

165.4

R.T.

248.9

343.0

101.1

94.1

- .29

195.2

70.7

168.1

R.T.

245.9

342.5

P. Phot.

162.6

251.5

R.T.

339.3

72.5

97.4

96.6

- .27

194.0

- .16

88.9

93.2

- .04

182.1

163.9

251.6

R.T.

340.2

75.5

87.7

95.3

- .06

183.0

10:30



Aug. 14, 1935.

Obs. Mag. Nova Herc., 180445 = 7.0

J.D. 2428029

12" Polar

Observer, J.G. Baker

Recorder, "

E.S.T.

10:30

338.0 Nova Dis.

Comp. \* ~ 7.4.

62.1

84.1

RT 157.8

81.0

238.8

165.1

- .28

332.0

69.5

97.5

RT 167.2

68.2

- .27

235.4

165.7

K.P.

- .41

62.5

156.2

93.7

RT 231.0

109.8

340.8

203.5

- .45

52.5

E.S. Dis.

157.2

106.7

RT 235.5

106.3

- .63

10:52

341.8

213.0

1.63

.41

Very poor seeing.

Run Aug. 15 1935.

Obs. Novn Here 180445 = 77.0

J.D. 2428030

E.S.T.

8:30

153.0

Novn Dis.

235.2

82.2

RT

335.0

79.2

54.2

161.4

— .35

153.4

229.2

75.8

RT

327.2

90.7

— .25

— .43

57.9

166.5

RP

229.8

340.6

110.8

RT

51.4

102.8

— .65

154.2

213.6

6.97

233.0

C.S. Dis.

334.1

101.1

RT

48.2

102.8

— .46

8:50

151.0

203.9

1.71  
— .43



Aug. 15 - '93

Obs. Norm. H. = 7.0

Same.

E.S.T.

8:52

	155.2		
	229.2	NOVA DIS	74.0
RI	331.6		78.8
	50.4		152.8
			.52

	150.3		
	235.4		85.1
RI	333.8		79.7
	43.5		164.8
			.29
			.37

R.P.

	233.4		
	325.4		92.0
RI	49.8		105.0
	154.8		197.0
			.32

	229.2		
	330.0	C.S. DIS.	100.8
RI	53.4		96.8
	150.2		197.6
			.33

Time ???

9:15

	146
	.37

Friday, August 16, 1935.

E.S.T.

11:01

Obs. Nova H., 180445 = 6.87

J.D. 2428031

334.1

← Nova Dis.

46.2

72.1

Observer, J.G. Baker

RI

152.4

79.9

Recorder, "

232.3

152.0

.54

Comp. \* = 7.4.

326.6

53.2

86.6

RI

153.1

71.1

224.2

157.7

.43

R.P.

43.5

← .53

153.5

110.0

RI

228.9

100.6

- .59

329.5

210.6

48.9

← C.S. Dis.

148.5

99.6

- .56

RI

225.5

109.6

11:20

335.1

209.2

- 2.12

Moonlight but fairly  
clear



Saturday, August 17, 1935

Obs. Nova Herc., 180445 = 6.83 J.D. 2428032

Observer J.G. Baker

Recorder "

E.S.T.

Comp. X = 7.4.

9:04.

	214.8		
	<sup>C.S. Dis.</sup>		
RI	322.6	107.8	
	37.8	102.6	- .58
	140.4	210.4	

	214.8	100.8	
RI	315.6	109.8	- .59
	32.4	210.6	
	149.2		- .57

R.P.

	320.6		
RI	36.2	75.6	
	140.4	73.0	- .60
	213.4	148.6	

	323.2		
	<sup>NOVA Dis.</sup>		
RI	35.1	71.9	
	135.6	81.0	- .52
9:25	216.6	152.9	- 2.29

Saturday, August 17, 1935

Obs. Nova Herc., 180445, = 6.90

EST.

9:55

Same

	267.6		
	16.2	108.6	
RI	96.2	102.4	Comp. $\pi$ = 7.4.
	198.6	211.0	— .59

	274.6		
	13.9	99.3	
RI	90.4	106.2	— .49
	196.6	205.5	

R.P. -50

	13.8		
	93.3	79.5	
RI	194.8	74.8	— .49
	269.6	154.3	

	18.7		
	93.4	74.7	— .44
RI	191.9	82.0	
	273.9	156.7	— 2.01

10:15



Monday, August 19, 1935.

Obs. Nova Herc., 180445, = 7.02

J.D. 2,428,034

*Discarded.*

E.S.T.

10:30

21.9		
99.7	77.8	
<sup>RI</sup> 200.0	78.9	— .44
278.9	<u>156.7</u>	

18.1		
101.9	83.8	
<sup>RI</sup> 203.6	74.4	— .42
278.0	<u>158.2</u>	

R.P.

99.6		-.38
204.3	104.7	
<sup>RI</sup> 277.6	100.2	— .48
17.8	<u>204.9</u>	

100.8		
198.0	97.2	
<sup>RI</sup> 284.4	92.0	— .17
	<u>189.2</u>	

10:50

16.4

-1.51

Light turned on after third set. Probably  
 $-.45 = \Delta m$  in good values. Nova is 6.95

Monday, August 19, 1935.

Obs. Nova Herc., 180445, = 7.22

Same.

Discarded.

10:51

101.9  
C.S. Dis.

195.4

93.5

RI

278.1

101.1

— .28

19.2

194.6

103.1

93.1

196.2

88.7

— .03

RF

287.9

181.8

16.6

RP

— .18

202.2

281.2

79.0

RE

15.2

91.3

— .18

106.5

170.3

195.0

195.0

Nova Dis.

278.2

83.2

RF

17.4

85.7

— .21

11:05

103.1

168.9

— .70

Discarded because of light in room.



Wed. Est. 7.0

53

Friday, August 23, 1935

Obs. Nova Herc., 180445, = 7.10

J.D. 2428,038

Observer, J.G. Baker

Recorder, "

E.S.T.

9:15

161.1

NOVA DIS.

232.9

71.8

C.S. = 7.4

RI

333.2

84.1

57.3

155.9

— .46

160.2

76.7

236.9

75.2

RI

338.0

151.9

— .54

53.2

RP.

242.7

— .30

228.6

85.9

RI

58.9

98.0

— .07

156.9

183.9

238.2

C.S. DIS.

333.3

95.1

RI

59.8

91.6

— .13

9:30

151.4

186.7

1.20

Friday, August 23, 1935

Obs. Nova Herc. = 7.08

Same

C. \* = 7.4

9:33

238.6

C.S. Dis.

329.9

91.3

R<sub>1</sub>

57.4

94.5

— .11

151.9

185.8

237.1

335.0

97.9

R<sub>2</sub>

59.8

91.6

— .18

151.4

189.5

R<sub>P</sub>

— .32

336.3

54.9

78.6

R<sub>1</sub>

158.1

73.0

— .54

231.1

151.6

335.8

Nova Dis.

59.8

84.0

R<sub>1</sub>

158.6

72.6

— .45

9:47

231.2

156.6

— .45

1.28



Est, Saturday - 7.1.

55

Sunday, August 25, 1935.

Obs. Nova Herc., = 6.81J. D. 24280 <sup>10</sup>~~37~~Experimenting  
with focus.

Obs. J. G. Baker

Rec. "

8.50

276.9

C.S.DIS.

17.2

100.3

RF

96.1

105.6

- .50

201.7

205.9

C.X = 7.4

272.4

21.1

108.7

RF

98.9

98.7

- .52

197.6

207.4

RP.

15.6

- .59

95.1

79.5

RF

202.4

69.2

- .60

271.6

148.7

24.2

NOVA DIS.

92.4

71.2

RF

206.1

70.0

- .75

9.02

276.1

141.2

- 2.37

Sunday, August 25, 1935

Obs. Nova H = 7.26

Same

9:14

110.6		
<sup>C.S. Dis.</sup> 204.9	94.3	
<sup>RT</sup> 289.2	<u>93.0</u>	- .14
22.2	187.3	

108.6

203.1	94.5	
<sup>RT</sup> 294.2	<u>77.1</u>	+ .16
11.3	171.6	

RP.

208.0		- .14
288.1	80.1	
<sup>RT</sup> 17.2	<u>87.8</u>	- .23
105.0	167.9	

204.6

<sup>Nova Dis.</sup> 285.0	80.4	
<sup>RT</sup> 22.4	<u>81.1</u>	- .35
103.5	161.5	

9:29

- .56



Est. L.C. 6.9  
 J.G.B. 7.0  
 L.B. 7.0  
 H.T. 7.0

Monday, August 26, 1935

Obs. Nova Herc. = 6.99

J.D. 2428037 <sup>441</sup>

E.S.T.

7:27

52.1

Nova Dis.

128.2

76.1

238.3

77.9

316.2

154.0

— 0.50

54.3

860

128.4

74.1

238.8

69.4

308.2

143.5

— 0.70

R.P.

150.6

Mean = -0.41

223.8

73.2

317.5

89.5

47.0

162.7

— 0.33

~~42.0~~ 316.2

Nova Dis.

41.9

85.7

142.0

82.2

7:34

230.2

173.9

— 0.12

7:30.5

Some twilight evident  
 during these observations

Aug. 26, 1935  
 Nova Herc = 7.2 Novalter.  
 Baker Cb II  
 LC Rec

7 38.3

130.9	< Nova Dis	
234.9	104.0	
321.6	76.4	
38.0	180.4	+ 0.01
	179.5	
142.1		- 0.11
219.2	27.1	
315.6	90.9	
46.5	168.0	- 0.20

R.P.

Mean = -0.20

225.2	92.4	
317.6	57.0	
51.2	169.4	- 0.20
128.2		

235.8	74.3	- 0.30
310.1	85.1	
48.3		

7 48.3

133.4	159.4	- 0.39
-------	-------	--------

7 43.3



August 26, 1935

Nova Herc. = 6.86

Nova Herc. III

EST.

7:54

55.3

Nova Dis.

125.3

70.0

226.9

87.6

314.5

157.6

-0.43

50.5

0.46

RI 131.4

80.9

236.7

73.6

310.3

154.5

-0.49

RP.

144.8

215.5

70.7

RI 321.4

74.7

36.1

145.4

-0.67

138.9

Nova Dis.

214.7

75.8

RI 327.1

75.1

7:58

42.2

150.9

-0.56

0.62

Thursday, August 29, 1935  
Nova Herc. = 6.82

J.D. = 2428045

EST.

11:10

Obs., J.G. Baker

Rec. "

	255.1		
	<sup>Nova Dis.</sup> 342.5	87.4	
RT	91.6	63.4	- .56
	155.0	<u>150.8</u>	

C\* = 7.4

	270.4		
	334.4	64.0	
RT	75.0	97.1	- .36
	172.1	<u>168.1</u>	

RP

- .58

	352.1		
	82.1	90.0	
RT	184.8	56.4	- .65
	241.2	<u>146.4</u>	

	8.2		
	<sup>Nova Dis.</sup> 63.1	54.9	
RT	170.5	86.7	- .74
	257.2	<u>141.6</u>	

11:26

- 2.31

11:18



Saturday, August 31, 1935.

Nova Herc. = 6.98

J. D. = 242804<sup>6</sup>

Obs. J. G. Baker

Rec. " "

C.  $\alpha$  = 7.4

Sky  $\frac{3}{4}$  cloudy at  
end & misty.

EST.

9:40

254.8

C.S. Dis

350.9

RP 65.2

189.2

96.1

124.0

220.1

-.78

242.0

8.0

RP

80.2

175.3

126.0

95.1

221.1

-.80

RP

357.0

RP 72.5

162.9

272.5

75.5

109.6

185.1

-.09

-.42

339.1

C.S. Dis.

87.6

177.4

108.5

71.6

180.1

-.00

9:50

249.0

9:45

-1.67

MONDAY, September 23, 1935 J.O. =

Nova Here. = with the 7.4 \*

E.S.T.

from Noon

Phot Ton 12"

Obs. L.C.

Rec. J.G.B.

7:10

68.4

Nova Dis.

152.8

84.4

246.9

90.3

337.2

174.7

- 0.10

68.8

150.2

81.4

- 0.30

255.1

73.1

328.2

154.5

- 0.49

R.P.

172.2

Mean = - 0.47

233.8

61.6

340.2

87.0

67.2

148.6

- 0.60

164.2

- 0.64

245.2

81.0

352.6

63.2

7:15

55.8

144.2

- 0.69

7 12.5

$$\text{Est LC} = 6.7 (6.3 \text{ to } 7.4)$$



Sept. 23/1935-

II

JGB LOR  
F.C. Per

2 18.2 171.1  
 232.1  
 334.1  
 64.9

61.0  
 90.8  
 151.8

-054

154.3  
 246.4  
 348.5  
 51.3

92.5  
 62.4  
 155.3

-050

-047

Phot Rev.

Mean = -0.40

258.1  
 327.3

69.2

63.2

99.4

-022

162.6

168.6

239.2

98.0

-029

337.2

63.1

79.9

161.1

-036

7 26.4 143.0

7 22.3

Inoper appear to be much  
 better than before photometer  
 was dismantled and then  
 reassembled.

III

September 23, 1935

JGB, Obs. Rec.

7:40

249.9

325.1

<sup>RT</sup> 61.5

150.7

75.2

89.2

164.4

- .30

235.1

332.5

<sup>RT</sup> 80.7

141.0

97.4

60.3

157.7

- .43

RP.

Mean = - .47

348.5

48.2

<sup>RT</sup> 152.0

241.1

59.7

89.1

148.8

- .60

330.1

<sup>RT</sup> 62.2

170.9

229.1

92.1

58.2

150.3

- .57

7:53

190



September 23, 1935

IV

JGB, Obs Rec.

7:53

349.1

45.8

RT

150.1

239.2

56.7

89.1

145.8

-.66

334.3

58.0

RT

163.2

229.1

83.7

65.9

149.6

-.58

RP

82.2

140.6

RT

234.9

339.5

58.4

104.6

163.0

-.32

57.2

152.2

RT

252.9

324.2

95.0

71.3

166.3

-.26

1.82

8:04

Wednesday Sept 25, 1935

ES T. from <sup>noon</sup> Nova Herc with 74 cm. mean from light = 6.89

Phot T (12")

obs JGB

Rec WAV

8 59

347.9 comp dia

72.5

114.6

159.5

73.8

233.3

188.4

-171.6

0.16

343.9

51.6

67.7

140.0

116.7

256.7

184.4

-175.6

0.08

Res ph.

45.0

123.9

168.9

249.0

83.4

332.4

207.3

-152.7

0.52

65.2.

148.9

83.7

229.1

114.3

-142.0

0.34

9 10

343.4

198.0

1.10

9 04.5

This observation not used in the mean



EST

Sept 25, 1935

obs JGB

Rec uAJ

9 10

47.7

166.1

118.4

241.9

88.2

330.1

206.6

-153.4

.51

62.5

152.2

89.7

226.9

120.2

347.1

209.9

-150.1

.57

Rec Ph.

mean = -0.48

108.5

259.6

121.1

336.1

84.3

60.4

205.4

-154.6

.49

153.6

238.2

84.6

316.8

113.2

9 21

75.0

197.8

-162.2

.34

1.91

9 15.5

EST

Sept 25, 1935

obs JGB

Rec WAJ

9 27

138.7 comp dia

254.8

116.1

331.1

84.1

55.2

200.2

-159.8

-0.38

151.4

comp dia

242.8

91.4

315.1

121.0

76.1

212.4

-147.6

-0.62

Rec. Phot.

mean = - .54

167.1

novadis

220.8

53.9

328.1

96.1

64.2

150.0

-0.58

147.2

novadis.

240.5

93.3

350.9

54.5

45.4

147.8

-0.62

2.20

9 41

9 34.0



Sept. 30, 1935

Nova. Herc. = 7.15

J.D.

Obs. J. D. Baker

Rec. "

E.S.T.

8:45

199.2

NOVA Dis.

264.2

65.0

C.S. = 7.4

356.1

106.7

102.8

171.7

- .16

177.5

282.6

105.1

13.8

70.0

- .09

83.8

175.1

RP.

288.0

- .25

353.5

65.5

95.6

91.5

187.1

157.0

- .44

275.0

9.1

94.1

RP.

106.4

68.8

- .32

175.2

162.9

1.01

8:54

8:49

Mirror resilvered today.

Sept. 30, 1935

Norm. Here. = 7.13

Obs. J. & Baker  
Rev. "

EST.

8:55

288.9

355.8

RT

93.5

185.0

66.9

91.5

158.4

- .41

C.S. = 7.4

275.2

RT 11.6

107.2

176.5

RP

19.2

87.2

RT 181.1

279.8

96.4

69.3

165.7

- .27

- .27

357.5

95.1

RT 192.5

265.9

97.6

73.4

171.0

- .17

- 1.10

9:02

8:58



Sept. 30, 1935

JD 5076

Obs. J. B. Baker

Rec. "

 $\beta$  Lyrae. =

EST.

9:22

233.1

 $\beta$  DIS.

267.8

34.7

C.S. = B

RT

55.0

31.8

86.8

66.5

-2.62

235.5

265.4

29.9

RT

54.3

35.6

-2.66

89.9

65.5

RP

-2.44

322.9

3.8

40.9

RT

145.1

35.0

-2.32

180.1

75.9

321.1

 $\beta$  DIS.

359.3

38.2

RT

140.1

42.9

-2.16

183.0

81.1

-9.76

9:32

9:27

B.D. +33° 3215  
(7.5)

A.

 $\beta$  Lyrae  
C.

B.

Field for  
comparison

B.D. +32° 3227 (6.3)

Sept. 30, 1935

Comp. of BYC

Obs. J. G. Baker

Rec "

EST.

9:40

$$\begin{array}{r} 93.6 \\ \text{C.S. C DIS} \\ 227.8 \end{array}$$

134.2

280.1

121.1

+ 1.54

41.2

255.3

98.9

$$\begin{array}{r} 225.0 \\ \text{RT} \end{array}$$

126.1

273.0

132.1

+ 1.61

45.1

258.2

RP

187.0

+ 1.41

$$\begin{array}{r} 311.8 \\ \text{RT} \end{array}$$

124.8

13.0

114.9

+ 1.19

127.9

239.7

C fainter  
than B.

192.1

$$\begin{array}{r} 307.1 \\ \text{RT} \end{array}$$

115.0

9:50

4.8

129.2

+ 1.29

134.0

244.2

5.63

9:45



Sept. 30, 1935

(3) Lyrae

Obs. J. H. Baber  
Rec. "

9:55

78.2

C DIS.

245.0

RT

66.0

240.6

166.8

174.6

- 5.45

341.4

C.S. = C

257.1

63.5

RT

259.2

63.0

166.4

163.8

- 4.42

330.2

RP.

- 3.64

170.1

238.6

RT

145.2

173.0

68.5

27.8

- 1.75

96.3

330.9

349.1 (C DIS.)

RT

328.0

7.5

18.2

39.5

- 2.95

57.7

- 14.57

10:10

10:02

Not reliable for images could not be brought together.  
 - 2.44 - 1.41 should equal - 3.64 but .2 diff.

Sept. 30, 1935

D 5076

B Lyrae

Obs. J. J. Baker  
Rec. ..

10:16

152.8

B DIS.

170.1

R.S.

17.3

C.S. = A

327.2

25.9

353.1

43.2

- 3.60

149.9

173.8

23.9

R.S.

329.8

19.6

- 3.58

349.4

43.5

R.P.

- 3.59

240.8

260.9

R.S.

20.1

57.7

25.5

- 3.48

83.2

45.6

238.5

B DIS.

261.8

R.S.

61.8

23.3

- 3.68

80.2

18.4

41.7

-14.34

10:25

10:20



✓ 1st 77

Oct. 1 1935

Nova Herca

Obs. J.G. Baker  
Rec J.R. Coolidge

8:16

308.1	
19.1	70.0
RI 108.2	<u>100.3</u>
209.5	170.3

C.S. 7.4

209.0	
27.1	178.1
RI 129.7	66.2
19.5.9	

R.P.

39.9	61.2
101.1	<u>94.7</u>
RI 203.5	155.9
298.2	

23.0	96.3
119.3	<u>95.7</u>
RI 203.5	192.0

8:26

299.2	
40.5	
100.1	59.6
120.5	82.8
203.3	

October 1, 1935

Nova Herculis = 7.08

8077

Obs. J.G. Baker

Rec. J.R. Coolidge

EST.

C.S. + 7.4

8.37

	23.9		
		Norm Dis.	
R.I	121.1	97.2	
	217.8	64.9	- .34
	282.7	162.1	

	38.0		
R.I	107.8	71.8	- .26
	203.7	94.3	
	298.0	166.1	

Mean - .32

R.P,	110.5		
R.I	208.5	98.0	
	311.0	62.2	- .38
	13.2	160.2	

	127.3		
R.I	193.8	66.5	
	292.9	97.1	- .31
	30.0	163.6	- 1.29

8.45

8.41



October 1, 1935

Nova Herc = 7.10

8077

Obs Baker  
Rec Coolidge

C.S. 7.4

8.46

109.3

209.8

100.5

R.I

311.2

64.9

-.28

16.1

165.4

129.6

199.0

69.4

R.I

291.6

103.5

-.13

35.1

172.9

R.P.

205.2

Mean -.30

295.0

89.8

R.I

41.1

63.0

-.52

104.1

152.8

217.1

286.6

69.5

-.27

R.I

25.0

96.5

121.5

166.0

-1.20

8.53

8.49

Only



Fri Oct. 4, 1935 ~~photo~~

Phot T 12" Polar

Novalter. 150445

Baker Obs

Visual est. by Baker = 5.0

R.C. Rec

E.S.T.

Noon

~~7 39~~

7 40.2

340.5  $\angle$  Novadis

62.0

$\pm 1.5$

143.8

111.7

+ .25

255.5

193.2

+

166.8

319.6

+ .34

75.6

116.0

159.9

$\pm 6.2$

246.1

202.2

+

+ .42

Rev. Phot.

157.8

Mean =

~~.46~~

A.O. 6

~~.08~~

145.6

65.0

~~.13~~

248.7

$\pm 2.7$

331.4

147.7

$\pm$  - .62

65.7

151.9

$\pm 6.2$

- .60

256.2

64.1

150.3

- .57

7 48.0 320.3

Group II

Friday, October 4, 1935

EST.

Same,

IC Obs.  
Baker Rec.

7:50

253.9

229 333.0

70.3

157.2

79.1

86.9

166.0

-.27

-.43

248.3

327.3

73.5

143.4

79.0

69.9

148.9

-.60

Rev. Phot.

338.6

63.7

154.9

248.8

~~331.4~~

331.4

65.4

156.9

7:58

240.7

85.1

93.9

179.0

-.02

94.0

83.8

177.8

-.03

-.04

Mean = -.23



Friday, October 4, 1935

Group III  
Experimental

EST.

O'Keef Obs.  
Baker Rec.~~8:08~~~~152.0~~~~58.2~~~~166.2~~

8:14

177.7 new Dir.

231.5

53.8

339.8

76.3

- .98

56.1

130.1

158.5

- 86

238.5

80.0

347.7

62.3

- .73

50.0

142.3

Mean - .69

Reverse Phot.

261.6

67.8

329.4

94.5

- .34

63.4

162.3

157.9

- .52

252.8

82.0

- .70

334.8

61.9

8:30

82.4

143.9144.3

Group IV

Friday Oct. 4 1935

Dr. Campbell brewing  
O'Keefe me.

8.33.50

261.8 591

320.9 404

63.7 975

161.2 156.6

- 045-

250.5

046

335.0 245

74.9 714

146.3 155.9

✓ 046

Rev Phil.

341.2

- 0.23

55.5 743

151.0 292

240.2 183.5 - 0.31

328.0

000

65.6

97.6

151.6

98.4

8.3 11.27

250.0

196.0 +

0.30

164.0



Group V Friday Oct 4 1935

Baker obs.  
O'Keefe inc.

8:50 343.6 nova dis.  
 56.2 72.7  
 149.8 100.1 — .15  
 249.9 172.1

— .21

331.7  
 68.2 96.5  
 164.8 69.3 — .27  
 234.1 165.8

Reverse Photo.

78.0  
 144.2 66.2  
 244.1 95.5 — .35  
 339.6 161.7

Mean = — .30

— .39

64.8 Nova dis.  
 154.0 89.2  
 256.3 67.9 — .44  
 324.2 157.1

8:459

Group VI

Friday, October 4, 1935

EST.

Same.

O'Keefe obs.  
Baker Rec.

9:05

325.2	45.8
79.9	114.7
155.1	98.6
253.7	213.3
	146.7

Experimental.

- .64

- .53

337.8

68.8

91.0

144.1

111.6

- .43

255.7

202.6

Rev. Plot

157.4

54.9

Mean - .59

173.3

118.4

237.4

97.6

335.0

216.0

- .69

144.0

60.3

102.5

- .65

162.8

109.4

- .61

235.1

211.9

344.5

148.1

9:22

9:08



$\beta$  Lyrae, comparison star A

Group I

Friday Oct. 4, 1935

Taken obs.

O'Keefe rec.

E.S.T. from noon

9:33	44.5	Comparison star dis.	
	197.1	152.6	
	225.6	148.9	-2.92
	14.5	<u>301.5</u>	
		58.5	

	45.6		
	197.1	151.5	
	224.0	154.9	-3.11
	18.9	<u>306.4</u>	
		53.6	

Reverse Phot.

Mean -3.12

~~133.4~~ 289.4 with through 2 differences

311.2	21.8	
166.8	29.0	-3.24
135.8	<u>50.8</u>	

287.1	$\beta$ Lyrae dis.	
313.8	26.7	-3.23
108.9	24.3	
133.2	<u>51.0</u>	

940  
9:37

Group II  $\beta$  Lyrae, Comp. Star B  
Friday, Oct. 4, 1935

Baker obs.  
O'Keefe rec.

E.S.T

9:52 285.3  $\beta$  Lyrae dis  
318.9 33.6  
98.4 44.6 - 2.25  
143.0 78.2

279.6  
321.5 41.9  
102.5 34.4 - 2.31  
136.9 76.3

Reverse Phot. -1.99

6.9  
54.4 47.5  
185.4 51.0 - 1.69  
236.4 98.5

5.2  $\beta$  Lyrae dis  
55.5 50.3  
187.4 47.1 - 1.72  
234.5 97.4

10:02  
9:51



Group III 63 Lyrae. Friday, Oct. 4, 1935  
Same.

C.S. B

O'Keefe Obs.  
Baker Rec.

E.S.T.

10:05

189.9 - 63 by obs.  
223.3 33.4  
3.7 51.1  
54.8 84.5 -2.06

-1.77

167.4 67.8  
235.2 39.9 -1.47  
12.5 107.7

52.4

Rev. Photo.

Mem = -1.87

277.0  
326.4 49.4  
102.5 36.7 -2.02  
139.2 86.1

-1.98

277.8  
~~141.0~~ 324.0 ~~63.2~~ 46.2  
95.0 43.0 -1.94  
138.0 89.2

10:40

10:22

Group I

Monday, October 7, 1935

Prof 3

Nova Herculis = 6.93

Phot. T.

Obs. JG13.

Rec. JG13.

EST.

7.34

C. s. = 7.4

190.4

247.8

Nova Dis.

57.4

343.5

107.8

-.28

91.3

165.2

160.4

-.29

264.7

104.3

6.1

60.1

-.30

69.2

164.4

Rev. Phot.

Mean = -.47

272.2

337.4

65.2

93.0

69.8

-.88

162.8

135.0

-.65

274.0

339.8

65.8

80.4

91.5

-.43

7.46

171.9

157.3



2901

Group II

Monday, October 7, 1935

Nova Herculis = 6.92

Obs. LC

Rec. JSB.

EST.

7:52

348.2 <sup>c.s. Dis.</sup>

85.2

97.0

C. 8 = 7.4

161.7

112.7

- .57

274.4

209.7

150.3

346.2

- .51

92.7

106.5

170.9

97.1

- .45

268.0

203.6

156.4

Mean = - .48

~~179.8~~ 260.4

355.6

95.2

72.9

110.7

- .50

183.6

205.9

154.1

- .45

254.9

~~363.5~~ 344.4

89.5

69.8

111.9

- .41

181.7

201.4

158.6

8:00

7:56

Oct. 7, 1935

Group I

EST.

Vern

3 Lyr. Phot T Baker Obs.  
LC RecVar star  $\times a =$ 

8 21 05

205.9	$\angle$ var dis.	
226.8	20.9	
25.3	20.5	- 3.69
45.8	41.4	

205.9		- 3.75
226.1	20.2	
27.0	19.1	- 3.81
46.1	39.3	

Rev. Phot

Mean = - 3.71

295.8		
316.4	20.6	- 3.61
115.8	22.3	
138.1	42.9	

295.4		
316.1	20.7	- 3.67
116.3	20.0	
136.3	40.7	- 3.73

8 29 00

8:25



October 7, 1935

Group II

 $\beta$  Lyrae

Phot. 7.

Baher Obs.

" Rec.

EST.

Moon.

 $C^* = B$ 

8:35

248.1 <sup>V. DIS.</sup>

283.9

35.8

70.0

31.5

- 2.60

101.5

67.3

. 249.3

-2.62

280.4

31.1

67.8

34.8

- 2.65

102.6

65.9

335.2

Mean = -2.50

17.0

41.8

159.8

33.0

- 2.35

192.8

74.8

338.0

-2.38

11.8

33.8

156.0

39.6

- 2.40

195.6

73.4

8:47

8:41

17

October 7, 1935

Group III

EST.  
noon

(B Lyrae

Phot. J.

Baker Obs.

" Rec.

8:49

335.2

← var. Dis.

15.1

39.9

C.\* = B

156.9

37.1

-2.28

194.0

77.0

-2.24

336.4

15.1

38.7

154.2

40.8

-2.21

195.0

79.5

Rev. Phot.

68.5

Mean = -2.46

102.8

34.3

249.5

30.6

-2.68

280.1

64.9

-2.68

71.0

101.1

30.1

247.2

34.7

-2.68

9:02

281.9

64.8

8:55



October 7, 1935

Group IV

Baker Obs.  
" Rec. $\beta$  Lyrae Phot. T.

EST. noon

9:04

166.0  $\leftarrow$  Var. Dim.

183.7

17.7

344.5

21.0

-3.84

5.5

38.7

162.9

-3.74

187.4

24.5

346.8

17.8

-3.64

4.6

42.3

Rev. Photo

257.0

Mean = -3.66

277.0

20.0

73.7

22.7

-3.62

96.4

42.7

-3.58

253.8

278.2

24.4

-3.54

75.7

19.9

95.6

44.3

9:16

9:10

94

Tuesday October 8, 1935

Baker O.D.

E.S.T. noon. (3) Lyrae C.S. = B.D. 33° 32' 15" = A O'Keefe Rec.

Group I

9:48  
EST, noon

346.1	- $\beta$ Lyrae di	
365.8	19.7	
163.2	<u>24.2</u>	- 3.56
187.4	43.9	

- 3.46

341.1		
367.9	26.8	
164.6	<u>21.3</u>	- 3.36
185.9	48.1	

Mean = - 3.65

Remise P hrt,

76.8		
94.5	17.7	
254.6	<u>22.6</u>	- 3.75
297.2	40.3	

- 3.83

74.3		
94.9	20.6	- 3.92
257.2	<u>16.8</u>	
274.0	37.4	

9:57

9:52



N<sup>o</sup> 101  
 Tuesday

October 8, 1935

B after obs.

(3) Lyrae C S B <sup>B.D.</sup> 32°, 3227

O'Keefe rec.

Group II

E. S. T. mean

10:02 246.8

293.2

46.4

70.9

28.0

-2.36

98.9

74.4

-2.56

251.1

27.3

278.4

35.4

-2.76

67.8

62.7

103.2

Rev. Phot.

Mean = -2.30

335.9

17.5

43.6

153.5

42.5

-2.02

196.0

86.1

334.8

-2.04

16.4

41.6

155.1

42.9

-2.06

10:13

178.0

84.5

10:07

Group III  
 (3) Lyral Tuesday, October 8, 1935  
 C.S. = B

EST.  
 noon.

O'Keefe Ols.  
 Baker yee.

10:16

334.6

17.2

42.6

160.8

30.1

-2.42

190.9

72.7

341.6

-2.46

14.4

32.8

154.9

37.3

-2.50

192.2

70.1

Rev. Phot.

Mean = -2.33

61.8

105.7

43.9

250.9

34.4

-2.25

285.3

78.3

-2.20

57.6

37.6

105.2

44.1

-2.14

239.9

81.7

10:38

284.0



Group IV Tuesday, Oct 8, 1935 Baker obs.  
 $\beta$  Lyrae C. S. = B O'Keefe rec.  
 E. S. T. nov.

10:39	69.1		
	102.3	33.2	
	251.2	32.0	-2.67
	283.2	<u>65.2</u>	

-2.57

71.1	30.9	
102.0	39.9	-2.48
	<u>70.8</u>	

247.0 < delay, clouds.  
 286.9 - doubtful, clouds

Per Phot. delay, clouds

154.0 Mean = -2.34

196.2	42.2	
336.8	41.6	-2.08
18.4	<u>83.8</u>	

155.0 -2.12

195.0	40.0	
334.3	41.9	-2.14
16.2	<u>81.9</u>	

10:47

10:43

38 Nova too far west to work  
 on longer.

Group V Tues Oct. 8, 1935  
S

O'Keefe obs.  
Baker rec.



Group I

(3 Lyræ)

Sunday, October 13, 1935Obs. Baker  
Rec "12" Fixed.  
Phot. J.EST.  
noon.  
8:04

116.6	← var. Dir.		
146.1		29.5	
298.2		26.1	
324.3		<u>55.6</u>	-3.03

C. S. B.

117.5			-2.96
-------	--	--	-------

145.6		28.1	
295.6		31.0	-2.89
326.6		<u>59.1</u>	

R. Phot.

199.6			Mean = -2.46
-------	--	--	--------------

244.1		44.5	
18.9		44.3	-1.95
63.2		<u>88.8</u>	

200.1			-1.96
-------	--	--	-------

242.1		42.0	
18.4		46.0	-1.97
64.4		<u>88.0</u>	

8:14  
8:07

Group II

Same.

Sunday, October 13, 1935

Obs. Baker

Rec. "

EST.  
noon.

C. &amp; B.

8:15

200.1

243.0

42.9

20.2

41.6

61.8

84.5

-2.06

199.0

-2.00

242.1

43.1

18.1

45.6

-1.95

63.7

88.7

Rev Photo

Mean = -2.46

294.1

325.9

31.8

118.0

27.5

-2.89

145.5

59.3

-2.91

296.9

325.0

28.1

-2.94

116.4

29.8

8:29

146.2

57.9



Group III

Sunday, October 13, 1935

(3) Lyrae

Same.

Obs. Baker

Rec "

EST.

8:32

55.0

79.6<sup>Var DIS.</sup>

24.6

C. 8. A

235.4

25.5

-3.27

260.9

50.1

-3.30

54.5

80.2

25.7

235.9

23.0

-3.33

258.9

48.7

Rev Phot.

149.6

Mean = -3.73

166.9

17.3

329.5

16.7

-4.13

346.2

34.0

148.2

-4.16

165.2

17.0

330.1

16.0

-4.19

8:45

346.1

33.0

Kriep IV

Sunday, October 13, 1935

 $\beta$  Lyrae

same

Obs Baker

Rec

E.S.T.

C.S.A.

8:46

149.9

165.2

15.3

330.0

17.2

-4.22

347.2

32.5

147.7

-4.20

165.9

18.2

330.8

15.0

-4.18

345.8

33.2

Rev Pld.

235.3

Mean = -3.74

258.8

23.5

54.2

26.1

-3.29

80.3

49.6

234.0

-3.28

260.8

26.8

56.4

23.0

-3.28

79.4

49.8

8:56

8:51



Mon. Oct 14, 1935 - 105090

Phot T 18 04 45 J. Baker Obs.  
12" Polar L.C. Rec.

EST.

from Noon

Corr. to Dec circle =  $-17.4$ 

Sky quite hazy

f 02.8

214.5

Nwa Dis

278.1

63.6

14.1

104.1

118.2

167.7 — .23

197.1

109.1 — .11

296.2

71.3

34.9

180.4

106.2

179.6 + .01

Rev'd Phot.

308.4

Mean =  $-.35$ 

367.9

59.5

113.8

89.1

202.9

148.6 — 60

297.8

— .59

387.0

89.2

127.9

60.9.57

f 10.2

188.8

150.1 —

f 06

f 00 Est Rec'd =  $7.0^{\vee}$

Monday, October 14, 1935

Nova

Obs. LC.

Rev 2813.

Same

EST moon.

C.S. 7.4

8:16

306.2

19.8

73.6

120.8

78.2

-54

199.0

151.8

-48

296.0

~~11.4~~ 22.8

86.8

125.5

71.1

-42

196.6

157.9

Rev Phot.

Mean = -52

35.8

98.8

63.0

203.4

87.4

-57

290.8

150.4

-55

29.7

111.8

82.1

~~8:16~~

212.9

69.8

-54

8:16

282.7

151.9



8092

Wednesday, October 16, 1935

Nova Her

Companion star 7.4

Obs. TS alen  
Rec. O'Keefe

E.S.T noon

8:09

6.4 companion star dist.

116.4

110.0

188.2

106.0

294.2

216.0

144.0

- .69

0.1

- .56

115.7

115.6

195.2

86.7

- .43

281.9

202.3

157.7

Rec. P. Int.

- .62

192.9

289.7

96.8

34.8

49.4

- .65

84.2

146.2

- .68

221.5

263.3

41.8

8:26

7.9

101.5

- .71

109.4

143.3

8:17

Had Difficulty in keeping star in field due to large hour angle.

Wednesday, October 16, 1935

Now

Obs. G. Kuf.  
Rec. Baker.

Cx 7.4

E.S.T.  
8:32

198.9

285.0

16.0

~~194.7~~ <sup>108.4</sup>

194.7

~~281.5~~

281.5

~~188.5~~

86.1

Too great an hour angle.



Wednesday, October 16, 1935

J.B. Lyne

Obs. O'Keefe  
Rec. Baker

E.S.T.

9:05

299.8  
313.0  
90.8  
131.3

in Pin

21.2

40.5

61.7

- 2.80

C.S. B.

267.1

- 2.06

310.9

43.8

73.3

70.0

- 1.33

143.3

113.8

Mean = -2.00

356.9

43.4

46.5

178.2

42.4

- 1.94

220.6

88.9

356.0

- 1.94

35.2

39.2

174.7

49.8

- 1.94

224.5

89.0

9.26

9.15

Oct 16/1935

Group II

B Lyrae. C.S. = B

Bailey Obs.  
O'Keefe Rec.

E.S.T. noon

~~10:31~~ 10:29

10:31

168.0 C.S. dia

230.1

62.1

352.3

50.7

-1.35

43.0

112.8

174.2

-1.31

224.5

50.3

344.3

66.0

-1.27

50.3

116.3

Rev. Plant.

-1.62

263.2

313.0

49.8

88.0

40.0

-1.92

128.0

89.8

-1.92

268.9

310.2

41.3

84.3

48.6

-1.92

1039

132.9

89.9



Saturday, October 19, 1935 fog  
 Nova Herculis Obs. Rec.  
 Phot. J. JRB.  
 13" Polar.

EST noon.

7:10

69.1 Nova P.

C.S. 7.4.

129.9	60.8	
224.5	104.6	
329.1	<u>165.4</u>	- .28

42.8		- .19
149.5	106.7	
245.2	68.0	
313.2	<u>174.7</u>	- .10

R Phot.

Mean = - .40

165.4		
214.3	48.9	
323.0	90.2	
53.2	<u>139.1</u>	- 0.79

142.1		- .62
234.1	92.0	
336.5	64.5	- 0.45
41.0	<u>156.5</u>	

7:20

7:15

Reflected light in Observing room for  
 next reading better.

Same Saturday, October 19, 1935  
Obs. Rec.  
JNB

EST. noon

7:21

154.1

C\* 7.4

220.4

66.3

323.9

94.2

-.37

58.1

160.5

144.9

-36

237.5

92.6

335.0

68.8

-.35

43.8

161.4

R. Photo

244.9

Mean = -.22

319.5

74.6

48.0

102.1

-.06

150.1

176.7

226.8

-.08

330.0

103.2

61.6

72.1

-.09

133.7

175.3

7:30

7:25

Lights Out.



B Lyrae

Saturday, Oct. 19, 1935

Obs. Run. Jgr3

7:35

90.3			
107.2	16.9		C.S. A
267.1	<u>22.3</u>	-3.81	
289.4	39.2		

86.9 - 3.76

111.0	24.1	
270.1	<u>16.8</u>	-3.72
286.9	40.9	

R Photo

182.0 Mean = -3.75

198.0	16.0	
357.1	<u>23.0</u>	-3.82
20.1	39.0	

178.0 - 3.84

200.9	22.9	
359.1	<u>19.1</u>	-3.66
18.2	42.0	

7:45  
7:40

112

B Lyrae Saturday, Oct. 19, 1935  
Obs. Rec. 8813.

EST. mag.

7:50

257.0

C. &amp; B.

302.3

45.3

79.8

35.9

-2.16

115.7

81.2

261.4

-2.18

296.2

34.8

75.2

45.2

-2.19

120.4

80.0

R Phot.

346.9

Mean = -2.35

27.4

40.5

170.8

33.3

-2.38

204.1

73.8

204.1

352.4

-2.52

23.5

31.1

171.8

34.5

-2.66

206.3

65.6

7:59

7:54



f09P

Sunday, Oct. 20, 1935

Nova Herc.

Obs. Rec. 1935.

Phot. J.

12" Polar

EST.

from noon

7:04

Cx 7.4

243.7 ~~c.s~~ Dis.

312.4 68.7

40.4 112.8 ~~F~~.03153.2 181.5  
172.5

221.4

- .23

334.8 113.4

53.5 89.7 ~~F~~.44143.2 203.1  
156.9

R. Photo

Mean = - .29

335.8

45.9 70.1

142.6 92.6 - .33

235.2 162.7

324.2 ~~- Nova Dis.~~

- .35

54.5 90.3

154.1 70.4 - .37

7:11

224.5 160.7

14

Sunday, October 20, 1935

Same

Obs. Rec. 1935

EST  
noon

Oct 7.4

7:12

329.5

- Nova Pin

50.7

81.2

144.2

93.6

- .10

237.8

174.8

325.5

- .20

57.4

91.9

154.5

72.2

- .30

226.7

164.1

P. Photo

55.1

Mean = - .21

142.8

87.7

226.5

105.6

- 332.1

193.3

- .25

166.7

46.9

- C 5 Pin

151.4

104.5

- .22

233.3

85.8

- .20

319.1

190.3

169.7

7:20



Sunday, Oct. 20, 1935

B Lyrae

Same

Obs Rec. 9813.

EST  
noon

C.S. A.

7:26

269.6

290.7

86.8

110.2

21.1

23.4

44.5

-3.53

-3.49

266.1

291.2

87.8

108.8

P Photo

25.1

21.0

46.1

-3.45

Mean = -3.75

358.8

16.2

179.9

200.1

17.4

20.2

37.6

-3.91

-4.04

358.9

17.3

181.1

197.2

18.4

16.1

34.5

-4.10

7:34

Sunday, Oct. 20, 1935

EST  
noon

C. Lyne

Same

Obs Rec. 8803

C. S. B.

7:40	351.9		
	26.1	34.2	
	176.1	<u>24.6</u>	- 2.91
	200.7	58.8	

	355.9		- 2.92
	22.8	26.9	
	173.9	<u>31.2</u>	- 2.93
	205.1	58.1	

R. Rho

	75.6		Mean = - 2.51
	120.6	45.0	
	260.7	<u>36.4</u>	- 2.15
	297.1	81.4	

	81.2		- 2.11
--	------	--	--------

	120.5	39.3	
	256.2	<u>45.0</u>	- 2.07
7:49	301.2	84.3	



Sunday, Oct 20, 1935

83 Pyrae

Obs Rec. 1913.

same

EST  
noon

C. S. B.

7:50

77.0		
121.3	44.3	
261.5	<u>37.4</u>	-2.14
298.9	81.7	

78.6

-2.06

120.6

42.0

256.5

45.4

-1.98

301.9

87.4

R Phob.

-2.40

172.0

205.2

33.2

351.2

33.0

-2.64

24.2

66.2

173.6

-2.75

206.1

32.5

355.8

27.4

-2.86

7:59

23.2

59.9

---

 1162  
 241

503

118

Monday, October 21, 1935

JD 8097

Obs. Rec. 1935

 $\beta$  Lyrae

Phot J.

EST. from norm.

12" Polar

6:02

271.8

286.4

88.1

109.8

14.6

21.7 - 3.98

36.3

C.S.A.

268.0

-3.96

290.3

22.3

91.3

14.9 - 3.93

106.2

37.2

R. Phot

359.2

Mean = -3.65

18.0

18.8

175.0

26.6 - 3.49

201.6

45.4

353.4

-3.34

24.2

30.8

179.5

21.0 - 3.19

200.5

51.8

6:08



Monday, October 21, 1935  
 (3) Lyrae  
 Phot. J.

Obs. Rec. 8943.

12" Polar.

EST.  
 6:09

179.1

200.0

356.1

23.1

20.9

27.0

47.9

-3.37

C.S.A.

174.2

202.8

359.0

19.2

28.6

20.2

48.8

-3.33

-3.35

R. Photo.

272.8

286.1

88.8

110.0

13.3

21.2

34.5

-4.10

Mean = -3.66

267.1

289.5

90.7

106.6

22.4

15.9

38.3

-3.86

-3.98

6:16

Monday, October 21, 1935

Obs. Rec. 1935

B. Lyne.  
Same

EST.

6:21

348.8

28.0

172.9

203.1

39.2

30.2

69.4

-2.53

C.S. B.

354.5

25.4

168.2

210.0

R. Photo.

77.1

120.5

261.0

296.5

8

83.2

114.9

260.1

6:31

299.9

30.9

41.8

72.7

-2.42

-2.48

Mean = -2.41

43.4

35.5

78.9

-2.23

-2.34

31.7

39.8

71.5

-2.46



Monday, October 21, 1935

③ Lyrae  
same

Obs. Rec. JG13.

EST.

6:32

78.2			
119.8	41.6		C. & B.
266.7	29.1	-2.48	
295.8	<u>70.7</u>		

82.5		-2.45	
116.8	34.3		
260.0	38.2	-2.43	
298.2	<u>72.5</u>		
Or. Photo.			

168.0		-2.42	
208.4	40.4		
352.2	34.4	-2.35	
26.6	<u>74.8</u>		

171.2		-2.39	
204.9	33.7		
350.0	38.2	-2.44	
28.2	<u>71.9</u>		

6:39

Monday, October 21, 1935

Nova Herculis

Obs Rec. JTB

Same.

C\* 7.4

6:45

76.1 - Nova Pin.

124.8

48.7

~~151.2~~ 227.9

97.3 - .65

~~227.9~~ 325.2146.0

- .54

48.1

~~124.5~~ 150.1

102.0

253.9

55.3 - .43

309.2

157.3

R. Photo.

- .50

165.4

215.7

50.3

317.6

98.9 - .59

56.5

149.2

139.1 - Nova Pin.

- .47

245.1

106.0

341.8

55.4 - .35

37.2

161.47:01



Monday, October 21, 1935

Nova Herculis.

Obs. Rec. JHB.

Same.

7:03

324.8 - Nova Pic.

CA 7.4

54.3	89.5	
158.9	61.6	-55
220.5	<u>151.1</u>	

341.4

-.61

40.1	58.7	
149.1	86.0	-68
235.1	<u>144.7</u>	

R. Photo.

59.5

-.63

142.5	83.0	
252.1	55.3	-81
307.4	<u>138.3</u>	

71.5 - Nova Pic.

-.65

128.4	56.9	
230.8	97.4	-49
328.2	<u>154.3</u>	

7:11

Thursday, October 24, 1935

Obs. Rec. 9813.

 $\beta$  Lyrae

12" Polar.

Phot. J.

E.S.T. 252m

C.S. A.

5:55

145.0

164.9

322.1

348.1

19.9

26.0

45.9

-3.46

-3.43

141.2

167.7

322.9

343.8

26.5

20.9

47.4

-3.39

R. Phot.

Mean = -3.57

235.9

253.8

52.7

75.1

17.9

22.4

40.3

-3.75

-3.71

234.2

256.6

54.8

74.3

22.4

19.5

41.9

-3.67

6:01

5:58



Thursday, October 24, 1935  
*B. Fyae* *same.* *Obs. Rec. JGR.*

EST.

6:01

235.0

C.S. A.

255.7

20.7

53.8

21.3

-3.66

75.1

42.0

-3.66

234.6

257.2

22.6

53.4

19.5

-3.65

72.9

42.1

R. Photo.

Mean = -3.52

145.2

166.5

21.3

320.3

27.0

-3.35

347.3

48.3

-3.38

141.2

168.9

27.7

323.9

19.2

-3.41

6:08

343.1

46.9

6:04

Thursday, Oct. 24, 1935

(3) Lyrae

Obs. Rec. JHB.

Same.

EST.

6:11

258.9

C.S. B.

287.0

28.1

79.9

23.1

-3.22

103.0

51.2

-3.17

260.1

283.5

23.4

76.9

30.1

-3.12

107.0

53.5

P. Photo.

337.3

Mean = -2.61

24.6

47.3

165.1

36.4

-2.09

201.5

83.7

-2.05

342.3

20.0

37.7

158.5

48.6

-2.01

207.1

86.3

6:19

6:15

Images badly streaked



Thursday, Oct. 24, 1935  
 (3) Lyne  
 Same

Obs Rec. 98B.

EST.

C.S.B.

6:20	338.2		
	25.9	47.7	
	163.5	39.5	-1.99
	203.0	<u>87.2</u>	

	340.5		-1.96
	22.9	42.4	
	159.3	46.9	-1.93
	206.2	<u>89.3</u>	

Rev. Photo.

Mean = -2.45

	75.8		
	106.9	31.1	
	257.5	28.5	-2.87
	286.0	<u>59.6</u>	

	77.2		-2.94
	103.2	26.0	
	257.5	30.1	-3.01
	287.6	<u>56.1</u>	

6:26

6:23

Image badly streaked.

Thursday, Oct. 24, 1935  
 Nova Herculis.  
 Same. 9th Rec. 1913.

EST.

6:37

273.6

C.S. 7.4.

338.9

- Nova Dis.

65.3

69.5

105.4

- 0.17

174.9

170.7

- 0.17

250.2

356.9

106.7

93.4

64.0

- 0.17

157.4

170.7

R. Photo

8.8

Mean = - 0.28

63.2

54.4

163.1

102.0

- 0.45

265.1

156.4

- 0.39

346.4

- Nova Pir.

77.8

91.4

180.1

70.6

- 0.34

250.7

162.0

6:45

6:41



Thursday, Oct. 24, 1935  
 Nova Hercules Obs. Rec. J.G.B.  
 Same

6:46

5.1		
61.8	<sup>Nova Dis.</sup> 56.7	
163.4	103.7	-0.37
267.1	<u>160.4</u>	

C.S. 7.4.

347.2

-0.42

78.8

91.6

178.4

63.5

-0.48

241.9

155.1

R. Photo

93.9

-0.35

155.2

61.3

246.5

110.7

-0.15

357.2

172.0

70.1

-0.28

171.3

<sup>Nova Dis.</sup>

101.2

276.6

56.8

-0.42

333.4

158.0

6:54

Tuesday, October 29, 1935.

Nova Herc.

Obs. Rec. JRB.

12" Pole.

EST. from Nov.

Phot. J.

C.S. 7.4.

7:21

273.9

332.5

NOVA DIS.

58.6

65.1

109.5

- .22

174.6

168.1

- .28

256.0

350.7

94.7

91.9

67.2

- .34

159.1

161.9

R. Photo.

6.7

Mean - .47

60.2

53.5

166.6

90.5

- .69

257.1

144.0

345.2

- NOVA DIS.

- .66

76.8

91.6

185.8

55.7

- .63

241.5

147.3

7:29

7:25



Tuesday, October 29, 1935  
 Nova H. Obs Rec. JYB.  
 Same

E.S.T.

O.S. 7.4

7:30

6.8		
58.1	nova P <sub>in</sub>	51.3
169.8		86.2
256.0		137.5

-82

-82

352.0

75.5

83.5

187.0

54.1

-82

241.1

137.6

P. Photo.

Mean - .64

92.5

155.5

63.0

256.9

93.6

-45

350.5

156.6

78.1

-46

171.2

nova P<sub>in</sub>

93.1

272.6

62.5

-47

7:38

335.1

155.6

7:34

Tuesday, October 29, 1935.

B Lyrae.

Old Rec. 1813.

Same.

EST.

C.S.A.

7:46

~~244.5~~ 221.7<sub>83</sub> Pair.

244.5 22.8

31.2

43.0

-2.65

74.2

65.8

-2.67

213.2

255.1

41.9

41.7

22.4

-2.70

64.1

64.3

R. Phoe.

Mean = -2.76

131.8

153.8

22.0

305.0

39.9

-2.79

344.9

61.9

-2.84

122.6

162.9

40.3

314.9

19.0

-2.89

7:54

333.9

59.3

7:50



Tuesday, October 29, 1935.

 $\beta$  Lyrae.

Obs. Rec. 9813.

Same.

E.S.T.

C.S.A.

7:54

131.8  $\beta$  Pin.

153.7

21.9

306.0

37.1

-2.90

343.1

59.0

-2.90

124.8

161.8

37.0

313.7

22.0

-2.90

335.7

59.0

R. Phe

Mean = -2.78

221.1

244.7

23.6

31.9

44.0

-2.59

75.9

67.6

213.0

-2.66

254.4

41.4

42.8

21.7

-2.74

64.5

63.18:01

7:57

Tuesday, October 29, 1935  
 C. Lyne. Old Rec. 9813.  
 Same.

EST.

C.S.B.

8:06

358.7

56.5

B. Dir.

57.8

191.8

31.9

-1.92

223.7

89.7

-1.92

11.6

45.2

33.6

180.1

56.0

-1.92

236.1

89.6

R. Photo.

Mean = -1.74

872

149.2

62.0

277.7

40.5

-1.60

318.2

102.5

-1.56

970

137.1

40.1

266.0

65.1

-1.53

8:14

331.1

105.2

8:10



Tuesday, October 29, 1935  
 (3 Lyrae. Same. Obs. Rec. 8513.

EST.

8:15

83.7

150.9

278.0

319.5

B Pin.

67.2

41.5

108.7

C.S. 13.

-1.45

-1.45

95.3

140.2

268.5

332.4

R. P. H. P.

182.0

235.8

6.8

48.0

44.9

63.9

108.8

-1.45

Mean. -1.63

53.8

41.2

95.0

-1.78

-1.80

189.8

227.5

359.1

54.9

37.7

55.8

93.5

-1.82

8:21

8:18

Sunday, November 3, 1935

Nova Herc.

Obs. Rec. JHB.

Phot. J.

12" Polar.

C.S. 7.4

EST. from Nov.

7:00

190.2

Nova Dis.

255.7

65.5

347.6

111.4

-.06

99.0

176.9

165.5

-.04

277.6

112.1

8.1

67.4

-.01

75.5

179.5

R. Phot.

280.2

Mean = -.22

340.5

60.3

81.1

105.3

-.27

186.4

165.6

263.5

-.40

0.9

98.4

106.9

54.1

-.53

7:10

161.0

152.5

7:05



Sunday, November 3, 1935  
Nova Herc.

Obs. Rec., 1913.

Same

EST.

7:11

285.7

339.8

81.9

184.1

Nov. 1913.

54.1

102.2

156.3

C.S. 7.4.

-.45

-.43

264.5

1.9

103.5

164.8

R. Photo.

12.9

77.0

176.5

269.4

97.4

61.3

158.7

-.41

Mean = -.45

64.1

92.9

157.0

-.44

-.47

352.5

93.1

196.8

250.1

100.6

53.3

153.9

-.50

7:19

7:15

Sunday, Nov. 3, 1935

β Lyrae Obs., Rec. 8213.

EST.  
7:29

	Time	
284.0		
299.9 <sup>β Pic</sup>	15.9	
98.9	27.3	-3.60
126.2	<u>43.2</u>	

C.S. A.

278.5

-3.54

306.4

27.9

103.6

17.7

-3.48

121.3

45.6

R. Pic

Mean = -3.56

12.2

31.2

19.0

191.7

24.9

-3.56

216.6

43.9

-3.58

9.1

33.8

24.7

194.8

18.4

-3.60

213.2

43.1

7:36

7:32



Sunday, Nov. 3, 1935

(3 Lyrae

Obs, Rec., JHB.

EST.

Same.

C. S. A.

7:37

13.1

31.6

18.5

192.9

21.9

-3.75

214.8

40.4

-3.61

8.1

35.5

27.4

194.6

18.3

-3.47

212.9

45.7

R. Photo.

Mean = -3.62

102.9

120.7

17.8

280.7

23.4

-3.70

304.1

41.2

-3.62

99.5

126.7

27.2

283.5

17.0

-3.55

7:45

300.5

44.2

Sunday, November 3, 1935  
 $\beta$  Lyrae  
 Same

Obs, Rec JyB.

C.S.B.

7:51

184.6		
220.8	$\beta$ Dis.	36.2
10.7		25.1
35.8		<u>61.3</u>

-2.81

-2.90

190.3		
215.2		24.9
8.0		31.8
39.8		<u>56.7</u>

-2.99

R. R. R.

Mean = - 2.38

266.8		
320.2		53.4
91.1		42.8
133.9		<u>96.2</u>

-1.75

-1.86

272.1		
312.9		40.8
90.1		47.4
137.5		<u>88.2</u>

-1.96

8:00



$\beta$  Lyrae Sunday, Nov 3, 1935

Obs. Rec. JGRB.

C.S. B

8:01

268.8 -  $\beta$  Pic.

317.2

48.4

92.5

41.7

-1.91

134.2

90.1

-1.98

274.5

315.1

40.6

89.8

44.0

-2.06

133.8

84.6

R. Pic.

-2.45

7.1

39.2

32.1

189.2

27.9

-2.86

217.1

60.0

-2.91

9.2

36.5

27.3

189.9

30.3

-2.95

220.2

57.6

8:09

8:05

Thursday, Nov. 14, 1935  
Nova Herc. Chapman, JHB.

EST.

Phot J.  
12" Polar.

6:26

80.2 - Nova Dis.  
143.5      63.3  
234.1      115.8      -.02  
349.9      179.1

57.9

-.04

172.1      114.2  
262.2      62.9      -.05  
325.1      177.1

R Photo

183.5

Mean = -.36

224.6      41.1  
333.4      96.8      -.82  
70.2      137.9

-.67

154.2 - Nova Dis.

256.1      101.9      -.53

356.9      50.3

47.2      152.2

6:35



Thursday, Nov. 14, 1935  
Moon Here.

Obs Rec 9513.

Phobos  
12" Polar.

6:36

176.9		
228.2	51.3	
336.8	96.0	-63
72.8	<u>147.3</u>	

- .67

156.1

250.1	94.0	
357.7	<u>49.3</u>	-71
47.0	143.3	

R. Phob.

256.8

Mean = - .37

329.6 72.8

60.3	103.0	-08
163.3	<u>175.8</u>	

- .07

236.3

347.9 111.6

80.1	65.1	-06
------	------	-----

6:45

<u>145.2</u>	<u>176.7</u>
151.7	

Monday, Nov. 25, 1935  
 B Pyral. 12" Polar Obs. Rec. J. B.  
 Phot. J.  
 Nova behind house at 4h 25m W.  
 Roughly 7.4 from hazy images.

E.S.T. from noon.

6:15

46.1 - B. in.

C.S. B.

71.4 25.3

221.9 31.1 -3.00

253.0 56.4

39.9

-2.88

75.4 35.5

225.4 27.4 -2.75

252.8 62.9

R. Photo.

127.2

Mean = -2.30

176.8 43.6

302.1 50.7 -1.80

352.8 94.3

121.9

-1.72

173.9 52.0

302.9 49.3 -1.65

352.2 101.3

6:24

6:20



Monday, Nov. 25, 1935  
 Obs Rec. JHB  
 same.

C.S.A.

EST.

6:27

134.0 (3<sup>dm</sup>)  
 161.5      27.5  
 315.1      24.9      -3.17  
 340.0      52.4

-3.11

136.3  
 161.0      24.7  
 312.7      30.5      -3.05  
 343.2      55.2

R. Plab.

Mean = -3.37

228.6  
 248.8      25.2  
 51.2      16.9      -3.65  
 68.1      42.1

-3.63

228.3  
 245.9      17.6  
 47.8      25.1      -3.62  
 72.9      42.7

6:35

6:31

Monday, November 25, 1955  
 β Lyrae  
 Same.

Obs. Rec. 2213

C.S. A.

EST.

6:36

225.2 <sup>3</sup> die

248.4

23.2

49.3

19.0

-3.65

68.3

42.2

-3.63

228.1

246.4

18.3

47.9

24.7

-3.61

72.6

43.0

R. Photo.

314.0

Mean = -3.40

344.2

30.2

136.8

21.6

-3.19

158.4

51.8

-3.17

318.6

340.2

21.6

131.2

31.2

-3.15

162.4

52.8

6:43

6:40



Friday, Jan. 24, 1936  
Nova Herc.

Obs. Rec. 2913

EST  
p. noon

12" Polar.  
Phot. T.

C.S. 7.4

17:41

6.0 *Nov 8 in*

106.1

100.1

210.0

60.5

-.37

270.5

160.6

-.41

26.6

87.1

60.5

190.0

96.6

-.44

286.6

157.1

R. Phot.

99.5

Mean = -.36

200.1

100.6

297.3

64.6

-.28

1.9

165.2

-.31

117.4 *Nov 8 in*

177.9

60.5

278.9

101.6

-.34

20.5

162.1

17:49

17:45

North Huc. Friday, January 31, 1936

12" Polar.  
Phot-T.

Obs. 8913.

C.S. 7.4

EST from noon

17:25

196.0 - *near Pri*

287.9

91.9

31.3

52.8

-.68

84.1

144.7

-.65

212.1

264.9

52.8

6.0

95.5

-.61

101.5

148.3

R. Phot.

Mean = -.38

274.2

25.9

111.7

115.2

63.3

-.09

178.5

175.0

-.11

301.5 - *near Pri*

0.1

58.6

95.3

114.0

-.14

209.3

172.6

17:33

17:29



Friday, January 31, 1936  
 Nova Herculis.

Same.

Obs Rec. 98B.

EST from Norm.

17:33

273.1

22.6

118.9

178.9

Norm Rec

109.5

60.0

169.5

-1.20

C.S. 7.4.

297.9

358.5

91.5

203.2

Revised Phot.

60.6

111.7

172.3

-1.17

-1.14

-0.32

108.1

105.0

214.5

35.5

265.6270.0

160.5

-0.37

-0.47

32.3

83.7

190.7

290.0

Norm Rec

51.4

99.3

150.7

-0.56

—

17:42

17:37

Twilight in last few minutes.

O'Keefe Obs,  
Pae,

Wednesday, Feb 19, 1936.

RT. Aurigae

Comparison star a

Plut. T

E S. T. 11:09

Grav. I

223.9

281.4 - van der

33.4

94.7

219.3

272.1

28.3

85.9

Rev Plut.

308.7

1.3

131.3

183.9

3

311.2

1.9

124.9

190.9

E S. T. 11:46



Feb 19, 1936 RT Am.  
Group II

151

E.S.T. 11:58

222.3 - van der  
278.3

30.4  
92.2

209.2

282.0

34.0

95.0

Rev. Plant,

307.6

1.8

130.2

187.4

304.6

0.2

126.8

184.0

1212.0

Vis. Est. 7.2

Wednesday, Feb. 19, 1936

Nova Herculis.

Phot. T. 12" Polar.

Obs. Rec. JHB.

C.S. 7.4

EST from noon.

17:14

12.9  
110.9 *Nova Dec.*

98.0

217.1 53.4

- .55

270.5 151.4

39.5

- .60

88.2 48.7

195.5 97.4

- .65

292.9 146.1

Rev. Photo.

Mean = - .17

96.1

213.2 117.1

298.5 76.5

+ .26

150. 193.6116.9 *Nova Dec.*

+ .25

195.0 78.1

277.5 115.4

+ .25

32.9 193.5

17:22

17:18



Wednesday, Feb. 19, 1936

Nova Herc.

Obs. Rec. JTB.

Same

EST from Noon 100.5  
 17:23 210.0 109.5  
 291.1 83.9 +.25  
 15.0 193.4

110.5 +.34

195.9 85.4  
 273.5 117.6 +.44  
 31.1 203.0

Rev. Photo.

Mean = -.10

200.0  
 291.1 91.1  
 32.0 61.5 -.52  
 93.5 152.6

212.0 - Nova Dis. -.54

275.0 63.0  
 18.4 88.5  
 106.9 151.5 -.55

17:31  
 17:27

Sunday, March 1, 1936

Now Here.

Phot. T. 12" Polar.

Obs Rec. JGB

C.S. 7.4

E.S.T. from Now.

16:12

53.6 Now Pin.

162.0 108.4

263.1 51.1 - .39

314.2 159.5

- .33

83.9

132.5 48.6

227.5 117.4 - .27

344.9 166.0

Rev. Photo.

Mean = - .20

140.7

259.6 118.9

352.2 53.2 - .15

45.4 172.1

- .06

168.5 Now Pin.

224.9 56.4

312.5 125.0 + .03

72.5 181.4

16:20

16:16

8229.



Now Here.

Sunday, March 1, 1936  
Same.Obs. Rev. 9/21/36  
C.S. 7.4

17:10

136.9 *Now Pin.*

258.4

121.5

350.5

61.3

+ .05

51.8

182.8

+ .05

171.8

224.1

52.3

314.6

130.3

+ .05

84.9

182.6

Mean = - .21

Rev. Photo.

227.0

342.8

115.8

87.6

41.6

- .43

129.2

157.4

- .47

267.0 *Now Pin.*

309.0

42.0

53.1

111.4

- .51

17:19

164.5

153.4

17:14

Thursday, March 27, 1936  
TX Ursae Majoris

O'Keefe 50h  
Ree,

E.S.T. 1130

Photomultiplier  
Group I

139.2

290.7 van der

327.7

100.8

140.0

289.3

329.0

103.8

Reverse Photomultiplier

245.8

10.9

64.7

189.9

~~248.0~~

248.0

5.1

68.2

2:15

189.9



## Group II

2123 67.5 van der  
 183.1  
 243.0  
 13.0

62.0  
 185.0  
 246.0  
 9.5

Reverse Photometer

329.9 van der  
 100.9  
 153.4  
 278.2

333.8  
 88.1

177.8 Star Snappers, 2:50

~~Friday~~  
~~Thursday~~

April 3, 1936

O'Keefe 506  
 Rec.

E. S.T. 1:34

J. V. U. May  
 Computer B

201.0 → vander

231.4

17.4

Clouds



Vis Est 7.4 g9B, Friday April 3, 1936

Nova Herc.

Obs. Rev. g9B,  
C.S. 7.4

EST from Nov.

15:30

Clouds

12" Polar

Phot J.

until 16:00

EST from Nov.

16:18

104.0

Nova Herc.

159.5

55.5

260.9

104.0

-39

0.49

159.5

-49

84.2

182.8

98.6

290.1

51.0

-58

341.1

149.6

Rev. Phot

195.8

Mean = -25

257.1

61.3

346.1

118.8

-03

104.9

178.1

166.1 - Nova Herc.

-01

279.5

113.4

14.2

66.7

.00

16:26

80.9

180.1

16:22

Friday, April 3, 1936

Same

Obs. Rev. JGR

EST from noon

16:27

192.7 - North Rev.

C.S. 7.4

254.2 61.5

346.1 117.4

-0.02

103.5 178.9

164.8

164.8

+0.07

282.0 117.2

11.6 71.5

+0.16

83.1 188.7

Rev. Photo.

288.1

Mean = -0.18

342.2 54.1

87.2 103.3 -0.43

190.5 157.4

-0.43

263.2 - North Rev.

7.8

104.6 -0.43

110.6

152.6

16:35

163.2

157.2

16:31



Friday, April 3, 1936

Same

Obs. Rec. JSB.

EST from Nov.

C.S. 7.4

16:36

287.2

- Nov. Fin.

340.1

52.9

85.8

96.4

- .59

182.2

149.3

- .46

260.8

5.0

104.2

105.8

58.4

- .33

164.2

162.6

Rev Photo.

8.5

Mean = - .12

86.9

78.4

168.7

111.7

280.4

190.1

+ .19

349.6 - Nov. Fin.

+ .22

102.6

113.0

182.9

80.2

+ .25

16:45

263.1

193.2

16:40

Bothered by twilight in last three groups.

Vis. Est. 7.4

Tuesday April 14 1936

Nov. Heraulti

Obs. Rec. JTB.

New Photometer.

[Phot. J. in use  
by T. Cur.  
O.K.]

C.S. 7.4

EST. from noon.

12.15

109.8

Nov. P. in.

182.2

72.4

Hour angle 4 h E

268.2

111.1

12.18

19.3

183.5

Stopped by clouds.

Images not similar in focus but  
usable slightly outside f foci.



Vin. Est.  
7.4

Thursday, April 16, 1936

Nova 7 hrs.

Obs. Rec. JWB.

12" Polar. New Photo,

A.S. 7.4

EST from Noon

12:07

273.1

21.0

107.9

125.6

65.6

-1.12

191.2

173.5

-0.08

297.0

4.9

67.9

93.2

110.3

-0.03

203.5

178.2

R. Photo

Mean = -0.22

13.2

111.8

98.6

214.2

66.4

-0.29

280.6

165.0

-0.37

37.5

87.5

50.0

189.5

105.9

-0.46

12:17

295.4

155.9

12:12

Thursday, April 16, 1936

Nova Herc.

Obs Rec 1936.

Junc.

C.S. 7.4

12.14

17.0

108.2

91.2

210.0

63.8

-.48

273.8

155.0

-.42

35.1

89.1

54.0

188.1

107.1

-.36

295.2

161.1

R. Photo.

Mean = -.23

96.5

213.2

116.7

303.2

2.4

58.9

-.08

120.1

175.6

1.6

-.04

122.0

178.2

56.2

274.2

123.6

-.00

37.8

179.8



Vin Est 7.5 Sunday, April 26, 1936

Now here.

Obs. Jan 1933.

New Photo. 12" Polar Tel.

C.S. 7.4

EST from now.

15.04

249.5

348.5

86.9

166.9

Now Di.

99.0

80.0

179.0

-0.2

+0.6

264.0

336.6

65.0

180.1

R. Photo.

341.6

84.2

162.3

250.8

72.6

115.1

187.7

+0.14

Mean = +0.13

102.6

88.5

191.1

+0.21

351.6

66.0

147.5

262.1

74.9

114.6

189.5

+0.20

+0.18

15.11

15.07

Images very poor and unalike, used far out of focus.

Sunday, April 26, 1936

Now Here.

Ola, Re, & G.

Same.

EST from noon

15:12

C.S. 7.4

332.6		
83.5	110.9	
175.1	74.1	+ .09
249.2	185.0	

+ .05

358.0		
59.3	61.3	
152.2	119.3	+ .01
271.5	180.6	

R. Photo.

Mean = + .01

68.9		
172.5	103.6	
265.6	66.9	- .18
332.5	170.5	

87.5

- .03

161.8	74.3	
247.2	111.4	+ .11
358.6	185.7	

15:19

15:15



Thursday, May 14, 1936

Dor R. J. 13.

Experimental.

~~9~~ H.A. = E 3h 14m, at E.S.T. 8:30 $\delta = + 62^{\circ} 0$ 

Blue Filter.

197.6 *Adm.*

328.1

130.5

44.8

97.0

+ .93

141.8

227.5

+ .76

215.5

306.1

90.6

25.2

120.9

+ .60

146.1

211.5

M<sub>cm</sub> = + .54

299.2

54.5

115.3

126.9

84.2

+ .37

211.1

199.5

+ .32

316.9

32.5

75.6

115.2

118.3

+ .26

233.5

193.9

Thurs., May 14, 1936.  
Experimental.

Obs. Rec 9813

Green Filter.

295.6 <sub>A ju</sub>

52.2

116.6

A about G, B about F.

146.8

56.7

-13

A vis. about .2 brighter than B.

203.5

173.3

est. With Red Filter.

est. about A 1.5 m <sup>brighter</sup> B.

323.5

-.16

17.0

53.5

~~117.8~~

116.4

-.19

234.2

169.9

Mean = +.02

25.8

149.8

124.0

235.6

59.4

+ .06

295.0

183.4

+ .21

46.8

118.9

72.1

202.2

126.8

+ .36

329.0

198.9

Vis. Est. without Phot.

Red A 1.5 m brighter than B.

Green A .3 brighter than B.

Blue B .3 brighter than A.



Thursday, May 14, 1936.  
Experimental, New Photo.

JEB.

C.S. A

H.A.

4:35 E.

B Lyrae  
Green Filter.

23.9 B Lyrae dir.

40.1	16.2	
199.5	26.0	-3.65
225.5	42.2	

- 3.58

20.1		
46.9	26.8	
203.8	18.0	-3.52
221.8	44.8	

Mean = -3.63

115.2		
128.8	13.6	
287.7	30.5	-3.55
318.2	44.1	

- 3.67

110.0		
135.4	25.4	
297.0	14.1	-3.79
311.1	39.5	

4:25  
4:30

Thurs., May 14, 1936.

9813

Same  
Blue Filter.

C.S. A.

H.A.

4:15 E.

111.0		
133.0	22.0	
296.5	14.3	-3.98
310.8	36.3	

-3.87

116.0		
130.9	14.9	
288.2	25.3	-3.76
313.5	40.2	

Mean = -3.61

198.2		
226.9	28.7	
22.4	18.1	-3.42
40.5	46.8	

-3.35

200.2		
232.0	31.8	
18.2	18.0	-3.28
36.2	49.8	

206.0		
236.0	30.0	
33.9	19.6	-3.29
53.5	49.6	

4:02 E  
4:08



Thurs., May 14, 1936

Same  
Green Filter

JRS.

C.S. A.

3:55

32.9		
51.5	18.6	
214.2	18.2	-3.95
232.4	<u>36.8</u>	

-3.79

31.5		
55.8	24.3	
215.2	18.0	-3.64
233.2	<u>42.3</u>	

Mean = -3.87

126.9		
138.8	11.9	
301.5	26.1	-3.88
327.6	<u>38.0</u>	

-3.94

124.1		
145.9	21.8	-4.00
308.0	14.2	
322.2	<u>36.0</u>	

$$\begin{array}{r} 3:40 \\ -3:48 \\ \hline \end{array}$$

Sunday, May 31, 1936

$\beta$  Lyrae

Phot T.

12" Polar.

Obs Rec 1936

Blue Filter.

EST. from norm

11:23

50.1  
98.2  $\beta$  Dir.

284.9

270.0

48.1

35.1

83.2

-2.10

C \* B

-2.07

60.6

89.3

222.8

279.3

R. Photo.

28.7

56.5

85.2

-2.05

136.1

193.2

330.4

356.4

57.1

26.0

83.1

-2.10

Mean = -2.08

149.8  $\beta$  Dir.

181.8

318.1

10.0

32.0

51.9

83.9

-2.08

-2.09

11:33

11:28



Same Sunday, May 31, 1936. Obs Rec. 9213

EST from Noon

Green Filter

11:36 139.2 38<sup>in</sup> - CS B.  
 187.0 47.8  
 333.3 20.7 -2.56  
 354.0 68.5

153.4 -2.60

174.2 20.8  
 324.0 44.9 -2.65  
 05.9 65.7

R. Phot.

222.2 Mean = -2.34

284.4 62.2  
 60.9 27.0 -1.94  
 87.9 89.2

-2.08

238.9 38<sup>in</sup> -  
 265.2 26.3  
 50.1 52.8 -2.22  
 102.9 79.1

11:46

11:41

Same

Sunday, May 31, 1936

Obs Rec. 8813

Red Filter,

CS B.

EST from noon

11:52

230.5 <sup>38</sup>in -

274.5 44.0

54.1 45.4

99.5 89.4

-1.93

Very faint  
& difficult.

234.1

-2.00

270.4 36.3

48.1 48.0

-2.07

96.1 84.3

Mean = -2.26

319.3

3.5 44.2

151.2 24.6 -2.55175.8 68.8

-2.52

329.4 <sup>38</sup>in.

357.8 28.4

142.4 42.3 -2.48184.7 70.7

12:06

11:59



Sunday, May 31, 1936

Nova Her.

Oblen. 1936

same

C.S.7.4

EST from  
noon.

12:28 59.7 Nova Pin.

115.5

55.8

203.6

113.2

-21

316.8

169.0

-.10

25.2

146.2

121.0

233.0

59.9

+.02

292.9

180.9

R Phot.

149.0

Mean = -.12

199.5

50.5

293.0

117.8

-.22

50.8

168.3

-.14

112.0 Nova Pin.

235.8

123.8

328.2

52.6

-.07

12:38

20.8

176.4

12:33

Nova Herc. Sunday, May 31, 1936.

Old Run 8213

C.S. 7.4

EST from noon.

12:40

145.3 Nova Herc.

198.4	53.1	
295.4	116.7	- .19
52.1	<u>169.8</u>	

113.2		- .18
230.4	117.2	
326.8	54.4	- .16
21.2	<u>171.6</u>	

Mean = - .14

233.0		
291.4	58.4	
25.4	116.8	- .09
142.2	<u>175.2</u>	

203.4		- .10
320.0	116.6	
57.8	57.7	- .11
115.5	<u>174.3</u>	

12:48

12:44



Nova Lacertae June 30, 1936  
12" Polar.

Obs Rec 92B.

EST from Noon.

14:37

249.3

C.S. H.

275.6

26.3

60.4

45.0

-2.46

105.4

71.3

-2.39

241.4

285.2

43.8

67.2

32.1

-2.32

99.3

75.9

R.P.

Mean = -2.35

338.6

8.3

29.7

149.2

46.0

-2.32

195.2

75.7

-2.31

330.6

15.8

45.2

156.3

31.3

-2.30

14.44

187.6

76.5

14:40

Settings made in near dawn.

Naked Eye Estimator.

June 29, 1936 at 15:00 EST from noon. Equal to C.

June 30, 1936 at 10:00 " " " " " C.

" 30, 1936 at 14:30 " " " 1/2 fainter than C.

C refers to star on L.C.'s chart.

I

Tuesday, July 14, 1936

Nova Lacertae.

Obs. Rec. JAB.

12" Polar

EST from Moon

12:43

207.2

293.0

41.1

91.9

Non Pin. Phot T.

85.8

50.8

136.6

-.84

CS. BP. 55-2709

-.82

224.0

273.1

24.6

114.9

P. Phot.

298.4

15.1

131.2

182.0

49.1

90.3

139.4

-.79

Mean = -.95

76.7

50.8

127.5

-1.03

-1.08

314.4

1.0

119.2

194.8

46.6

75.6

122.2

-1.14

12:54

12:48

Great Care used in settings. Room completely black. Nova reddish but not so red as usual. C.S. slightly blue.



II

Tuesday, July 14, 1936

Old, Rec. 7213.

Same.

12:55

299.8 Nova Per

16.7

76.9

132.4

48.9

-1.07

181.3

125.8

314.4

-1.05

0.0

45.6

118.6

81.9

-1.03

200.5

127.5

R. Photo

Mean = -.92

21.5

106.6

85.1

221.1

52.7

-.82

273.8

137.8

42.4

-.79

92.3 Nova Per

51.9

203.9

88.8

-.76

292.7

140.7

13:06

13:00

III

Tuesday, July 14, 1936

Same.

Old Rec. 7813

13:07

25.1 Nov Par.

111.1 86.0

221.0 51.1 - .83

272.1 137.1

42.5

-.85

91.2

48.7

203.9

86.1

-.88

290.0

134.8

R Photo.

Mean = -.94

116.1

202.0

85.9

314.6

45.9

-.94

0.5

131.8

134.1 Nov Par.

-1.03

179.8

45.7

300.2

77.4

-1.13

17.6

123.1

13:18

13:12



IV Tuesday, July 14, 1936  
 Same, Old, rec. 82B.

13:23

116.8

199.7

313.0

3.1

Nov Pin.

82.9

50.1

133.0

-.92

-1.05

134.0

178.2

300.5

16.9

R. 8 hole

206.0

290.9

40.4

92.8

44.2

76.4

120.6

-1.18

Mean = -.94

206.0

290.9

40.4

92.8

84.9

52.4

137.3

-.83

223.2

271.4

21.2

109.5

Nov Pin.

48.2

88.3

136.5

-.83

-.84

13:33

13:28

V

Same.

Tuesday, July 14, 1936

Gle, Rec. JDB

13:39

~~#12.4~~

206.9

289.6

41.9

92.3

82.7

50.4

133.1

- .91

- .84

222.2

274.9

22.6

110.0

R. Phot.

298.9

15.9

130.8

181.2

52.7

87.4

140.1

- .77

Mean = - .93

77.0

50.4

127.4

- 1.03

- 1.02

313.8

2.9

117.8

196.7

49.1

78.9

128.0

- 1.02

13:50

13:45



VI Same

Tuesday, July 14, 1936

Obs. Rev. JHB.

13:54

294.5

17.0

82.5

130.2

51.2

- .90

181.4

133.7

- .95

314.0

0.9

46.9

118.9

81.4

- 1.01

200.3

128.3

R. Phot.

Mean = - .91

21.2

112.5

91.3

223.6

50.6

- .74

274.2

141.9

- .87

42.0

90.4

48.4

207.4

80.6

- 1.00

288.0

129.0

14:04

13:59

Mean for the night = - .93

C.S. 7.46

- .93

6.53 for noise

Night nearly perfect after midnight.

84

Nova Lacertae

I

EST from noon

July 15, 1936

10:36

~~277.2~~

Obs. 1936 Rev. EKB.

310.2

24.8

374.6

145.5

188.1

42.6

37.2

-1.25

C.S. A.

BP 55° 2709

325.1

8.4

43.3

76.2

130.0

206.2

119.5

-1.20

-1.23

Reversed photometer

Mean = -1.03

33.1

121.6

88.5

233.3

281.9

48.6

137.1

-.83

-.83

53.2

101.0

212.8

302.0

47.8

89.2

137.0

-.83

10:45

10:41

Night rather hazy with drifting clouds. Images not so good as last night, Nova reddish yet.



Nova Lacertae

11

185

July 15, 1936

Obs. JTB. Rec. EKB.

10:47 33.9

121.9

234.2

280.4

88.0  
46.2  
134.2

-.89

C.S. A.

BD 55° 27' 09"

-.89

53.5

46.1

99.6

87.7

214.4

133.8

302.1

-.90

Reversed Photometer

Mean = -.94

122.0

210.0

324.5

10.2

88.0  
45.7  
133.7

-.90

-.99

146.5

186.8

303.4

28.5

40.3

85.1

125.4

-1.08

10:56

10:52

Nova Lacertae

III

July 15-1936

Obs. J223 Rev. Ex B.

10:57

122.1

208.9

325.9

7.0

86.8

47.1

127.9

-1.02

-1.10

148.1

186.8

305.1

27.2

38.7

82.1

120.8

-1.18

Reversed Photometer

Mem = -.92

210.7

304.4

52.4

102.5

93.7

50.1

143.8

-.70

-.74

234.2

280.6

29.2

11:05

121.8

46.4

92.6

139.0

-.79

11:01



# Nova Lacertae

IV

187

July 15 - 1936

11:09

Obs. JHB Rec. EXB.

213.4	88.5	
301.9	49.9	
52.2	<u>138.4</u>	- .81
102.1		

- .79

234.0	47.1	
281.1		
33.0	<u>92.8</u>	- .78
125.8	139.9	

Reversed Photometer

Mean = - .90

303.6		
28.0	84.4	
145.9	<u>42.5</u>	- 1.04
188.4	126.9	

- 1.01

324.6		
8.7	44.1	
124.0	<u>85.8</u>	- .98
209.8	129.9	

11:17

11:13

7.46 - 95 = 6.51

Nova Herculis

July 15-1936

Cloudy over region.  
Vis. Est. - 7.8 but uncertain



Nova Lacertae Sunday, July 19, 1936  
Obs. Rev. 1936.

12" Polar.  
Phot. T.

I

EST from  
noon.

10:45

224.8

324.3

68.2

117.8

Nova Pin.

99.5

49.6

149.1

C.S. A.

-.59

-.60

248.2

299.6

43.2

140.3

R.P.

321.2

48.3

159.3

207.2

51.4

97.1

148.5

-.60

Mean = -.79

48.3

87.1

159.3

47.9

135.0

-.88

342.1

27.8

145.8

225.3

45.7

79.5

125.2

-1.08

-.98

10:54

10:50

July 19, 1936

II

10:55

321.5

50.2

88.7

159.9

46.1

-.88

206.0

134.8

-.84

341.4

27.4

46.0

138.5

93.3

-.79

231.8

139.3

R. Photo.

Mean = -.69

45.8

142.6

96.8

-.54

247.1

55.1

302.2

151.9

-.54

67.4

118.1

50.7

223.1

100.7

-.55

323.8

151.4

11:06

11:00



July 19, 1936 III

11:07

46.3		
142.9	96.6	
246.8	56.8	
303.6	<u>153.4</u>	- .51

- .57

66.3		
122.2	55.9	
232.0	91.7	
323.7	<u>147.6</u>	- .62

RV. Phot.

Mean = -.68

136.8		
226.2	89.4	
340.6	49.4	
30.0	<u>138.8</u>	- .80

158.8		- .80
-------	--	-------

209.2	50.4	
321.1	88.3	
49.4	<u>138.7</u>	- .80

11:16

11:12

July 19, 1936

IV

11:17

140.6

226.4

341.1

31.1

85.8

50.0

135.8

-.86

-.88

158.0

207.6

324.1

48.5

49.6

84.4

134.0

-.90

mean = -.72

225.0

323.6

67.7

123.2

98.6

55.5

154.1

-.50

-.56

248.2

299.7

46.5

142.8

51.5

96.3

147.8

-.62

11:27

11:22



July 19, 1936

V

11:35

229.0

323.1

65.5

119.2

94.1

53.7

147.8

-.62

247.0

302.4

50.4

142.3

55.4

91.9

147.3

-.63

R. Photo.

# 322.8

48.1

159.0

209.8

85.3

50.8

136.1

-.85

337.8

28.6

139.6

227.8

50.8

88.2

139.0

-.79

11:43

11:39

July 19, 1936. VI

11:44

321.1		
47.1	86.0	
158.3	55.5	- .74
213.8	<u>141.5</u>	

335.4		- .77
-------	--	-------

31.1	55.7	
143.8	83.2	- .80
227.0	<u>138.9</u>	

R. Photo.

Mean = - .73

46.4		
138.9	92.5	
248.2	52.3	- .68
300.5	<u>144.8</u>	

66.9		- .70
------	--	-------

122.1	65.2	
230.0	87.5	- .72
317.5	<u>142.7</u>	

11:53

11:49

Mean for the night = - .72

7.46

- .72

6.74 down.



July 22, 1936

Nova Lacertae

Photo T

12" Polar

I

Obs. Rec. 7713

EST from noon

C. S. H.

11:51

345.9 Nova Pin.

71.2 85.3

183.0 52.8

235.8 138.1

-.81

3.3

55.5 52.2

167.2 84.0

251.2 136.2

-.85

-.83

Mean = -.73

72.0

162.8 90.8

271.1 56.1

327.2 146.9

-.64

-.62

90.3 Nova Pin.

146.3 56.0

254.7 92.8

347.5 148.8

-.60

12:04

11:57

196

July 22, 1936 II  
 Same, Obs. Rev. 8413

12:06

71.6 *new Rev.*

166.6

95.0

272.1

53.9

-.60

326.0

148.9

90.6

-.61

149.9

59.3

255.6

87.8

-.63

343.4

147.1

P Photo.

Mean = -~~71~~

165.9

= -.72

252.2

86.3

3.7

52.2

-.80

55.9

138.5

183.0

-.83

235.1

52.1

348.6

83.6

-.82

-.86

72.2

138.7

12:16

12:11



Same July 22, 1936

III Obs. Rec 9513

12:22

162.5

255.0

3.8

57.6

92.5

53.8

146.3

-.65

182.5

234.2

345.9

73.7

R phot.

257.2

344.9

88.2

147.6

51.7

87.8

139.5

-.78

-.71

Mean = -.65

344.9

88.2

147.6

87.7

59.4

147.1

-.63

-.59

272.0

329.2

73.2

166.7

57.2

93.5

150.7

-.56

12:32

12:27

$$7.46 - 7.0 = 6.76$$

July 26, 1936  
 Nov. 12.0

Phot T.

12" Polar

I 196. 923.  
 Rec.

C.S. A.

EST from Nov.

14:06

144.8 Nov. 12.

262.0

117.2

355.6

53.5

-.17

49.1

170.7

180.4

-.25

231.1

50.7

329.4

111.7

-.33

81.1

162.4

R.P.

Mean -.42

241.9

344.8

102.9

90.6

46.3

-.59

149.2

136.9

-.59

272.1 Nov. 12.

52.0

324.1

97.3

-.59

66.5

149.3

163.8

14:14

14:10

Sky hazy with light clouds.



same July 26, 1936  
II

892 Pa. 9213

14:15

240.2

343.0

91.4

139.9

102.8

48.5

151.3

-.55

-.56

267.5

320.6

67.7

164.4

R.P.

336.9

80.8

181.2

232.2

53.1

96.7

149.8

-.58

Mean = -.49

103.9

51.0

154.9

-.48

355.2

50.8

152.7

257.8

55.6

105.1

160.7

-.37

-.42

14:21

14:18

July 26, 1936

same

III

Old Rev. 92B

14:22

334.8

73.1

98.3

182.0

46.4

-.68

228.4

144.7

-.53

358.2

50.8

52.6

152.0

107.4

-.38

259.4

160.0

R.P.

Mean = -.58

62.8

163.0

100.2

269.8

49.2

-.59

319.0

149.4

-.63

89.6

137.8

48.2

-.67

246.0

97.2

14:29

343.2

148.4

14:25



July 26, 1936  
 June IV

Obs. Rec. 9/21/36

14:33

63.0

164.3

101.3

273.3

46.8

-.61

320.1

148.1

-.59

90.4

137.2

46.8

-.57

243.8

103.3

347.1

150.1

R. P.

Mean = -.46

151.1

108.0

259.1

58.9

-.25

354.3

166.9

53.2

-.33

181.3

228.3

47.1

-.41

329.2

111.5

14:41

80.7

158.6

14:37

$$7.46 - .49 = 6.97$$

Ines. July 28, 1936  
Nova Lacertae

photo.

12"

I

on the 1st.

CS A.

EST from spec.  
13:24

59.8

171.2

272.1

313.5

111.4

41.4

152.8

-.52

-.56

91.8

135.8

242.9

347.0

R. P.

154.0

259.0

358.2

49.8

44.0

104.1

148.1

-.61

Mean = -.48

105.0

51.6

156.6

-.45

-.40

180.0

230.9

328.7

79.0

50.9

110.3

161.2

-.36

13:33

13:29



July 28, 1936  
Lance

II 92 Rev. 8713.

CS A.

13:35

150.3

260.7

355.9

54.0

110.4

58.1

168.5

-.22

-.34

181.8

230.0

330.8

78.8

RP.

241.6

350.9

89.2

137.3

48.2

108.0

156.2

-.45

M corr = -.40

109.3

48.1

157.4

-.43

-.46

270.0

318.0

59.8

166.6

48.0

106.8

154.8

-.48

13:42

13:38

$$7.46 - .44 = 7.02$$















