

KG

11365

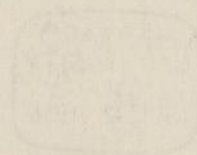
635

15 — inch

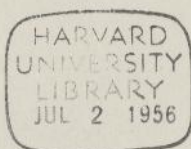
(12-inch Record)

Oct 1936 —

KG-11365.635



KG-11365.636



Sat. Oct 24, 1932

Double plg 12"

12"

L.C. Ob.

Nov. Agl 191201 Regain Too low.

25 T.
from
noon
7 25

Mon Oct 26/1936
12" L cellb.

213403 PS egg
est 11.4 L cellb

Flux tel. (too much out
of balance)

Double light amplifier

7 40 Mon Agl 15/201
est d' 3, 3 f L cellb

Oct 26 / 1935
 Plot T 129

2 star experimental

f 32 1222 < brighter dis. E. J. Ob
 184.4 R.C. Rec

reversed images 53.2
 291.4 680
 360.4 1222 -

125.4
 179.4 < 540
 300.0 542
 354.2 108.2 -

Rev. Phot.

~~262.2~~

37.2
 87.2 < 500
 214.3 579
 272.2 107.9 -

29.2
 95.8 < 666
 210.0 542
 264.2 1208 -

f 43

Oct 26 - 1936

Same again.

2 ST
from
Noon

8 5-8

125.6

176.2 < R.I

306.2

358.7

580

525

1033 -

21 Ob

131.4

171.2 <

307.4

354.4

398

470

87.8 -

Rev. Phot

mean =

212.2

265.7 <

36.3

88.5

535

522

105.7 -

212.2

269.8 <

21.8

95.0

576

732

1308 -

906

Tuesday Oct 27, 1936

12" Phot T. 2 Jovian
Rec

Exhausted only.

8:48

42.6 lt. * dis. 49.2

91.8

510

225.9

100.2

1.65

276.9

1.58

49.3

436

1.52

92.9

621

222.0

1057

284.1

Mean = 1.34

Rev phot.

302.5

684

370.9

542

313.2

1226

1.14

367.4

1.11

133.3

567

190.0

687

306.0

1254

1.08

8:58

374.7

6

Feb 27 / 1936

9:15' 314.4 510
 365.4 < 423
 141.6 93.3 1.83
 183.9

1.70

314.0 513
 365.3 < 524
 134.7 103.7 1.57
 187.1

Mean = 1.36

Rev phot

213.5 700
 283.5 < 624
 34.7 132.4 0.93
 97.1

1.02

217.9 648
 282.7 < 590
 36.8 123.8 1.11

9:24 95.8

Oct 27/1936

925'	440	481	
	921	604	
	2215	<u>1085</u>	145
	281.9		

427	620	1.14
1047		
2169	752	
2921	<u>1372</u>	0.83

~~1439~~			Mean = 1.52
3229	418		
3647	529		
1351	<u>947</u>	179	
1880			

190

	3213	420	
	3633	450	
	1390	<u>870</u>	200
933	1840		

8

O'Keefe { Obs.
Rec.

12 inch telescope. phot. T.
 Tues. Nov. 11, 1936 Setting 3.0,
 Comp. star due south about 25'
 Van Brighs + star.

8:20

49.3

71.8

230.8

253.0

40.3

71.8

231.5

253.1

Rev. P. phot.

143.9

159.5

323.8

342.0

143.1

160.4

8:34

324.5

342.8

O'Keefe { ⁹
Rec.

Nov. 10, 1936

II

8:35

143.0

158.2

323.4

341.6

4

143.0

161.8

323.1

341.1

Rev. Phot.

230.9

252.6

51.8

72.8

231.3

252.5

8:47

51.1

72.6

Nov. 10, 1936

III

O/Kufe { Obs.
Rec

81.48

232.4

252.2

50.3

72.6

232.0

251.7

51.2

71.2

Remphord.

323.0

342.2

143.2

161.1

322.4

343.2

144.9

81.58

159.1

Nov. 10, 1936 IV

8/Kerfer $\left\{ \begin{array}{l} \text{or,} \\ \text{Puc.} \end{array} \right.$

9:01 311.2

328.1

133.0

152.6

31

311.0

329.1

132.5

150.7

Rev. Phot.

40.0

63.0

220.2

240.1

40.8

60.9

221.9

9:11 242.2

Images fade (not clouds).

15 Inch TelescopeO'Keefe { obs
Rec.

Feb 27, 1937

TX Ursae Majoris. Comp star b, Thet. T.
 Setting 29, 200° Seeing fair - Variable
 bright + dis. 15 inch record book
missing. Focusing handle torn off.
T

12:41 238.4

259.9

21.5

3.52

58.0

23.2

~~3.52~~

81.2 ?

44.7

3.41

12:48 + 5

57.1

~~8592.742~~

81.2

24.1

3.3025

12.53

232.9

25.3

8592.745

262.2

49.4

Rev. P. Hunt

3.05

144.8

175.3

30.5

324.2

32.8

2.74

357.0

63.3

2.69

144.0

174.4

30.4

320.2

35.8

2.64

356.0

66.2

12:56

Watch set about 12:00 - ~~from memory~~
 put down from memory Max 3. Here loss
 6^m per hr.

Feb. 27

II

12159 145.3

177.3

32.0

325.2

29.7

2.80

354.9

61.7

2.83

145.9

175.9

32.0

325.0

28.0

2.86

353.0

60.013.067 *Per Phed.*

3.06

8592.754 236.3

13.13 260.2

23.9

8592.759 57.2

27.1

3.23

84.3

51.0

3.28

237.0

260.2

23.2

57.5

25.7

3.32

131.13

83.2

48.9

Jan 27

6/1/1951

1.29

56.2

80.0

238

236.7

249

3.33

261.6

48.7

3.20

56.6

83.1

26.5

235.0

28.0

3.08

263.0

54.5

13.39 + 10

8592.777

13.49

8592.784

Rep. Prod.

113.6

143.8

174.3

30.5

321.9

33.3

2.72

355.2

63.8

2.76

143.0

173.8

30.8

324.3

30.7

2.80

350.0

61.5

1.49

Feb 27 1937

O'Keefe & Co.
IV

13159	142.7		
	173.8	309	
	323.7		2.79
	354.8	<u>31.1</u>	
		62.0	2.76
	142.2		
	175.8	33.6	
	324.6	<u>29.8</u>	2.73
14.05 + 12	354.4	63.4	
~~8592.794~~	Rev. P. hnd.		2.96
14.17	238.2		
8592.864	263.2	25.0	
	55.9	<u>25.9</u>	3.24
	81.8	50.9	
			3.17
	235.8		
	263.2	27.4	
	54.8	<u>26.6</u>	3.10
14:10	84.4	54.0	

O'Keefe { Obs
Res

17:27, 1437

14:13

2 37.7

260.2

22.5

56.5

26.5

3.32

830

49.0

234.8

3.20

264.4

29.6

57.8

24.8

3.08

82.6

54.4

14:26 + 15

Pen P. hnd.

2.89

~~8592.806~~

323.4

14.41

354.8

31.4

8592.820

~~118.1~~~~2.68~~

146.3

33.6

174.9

65.0

2.58

321.9

355.8

34.9

143.5

35.5

2.49

314:29 178.0

70.4Watch, 5^m slow. Reset at 14:37

Feb 27-1937

O'Keefe { Son.
Rec.
VI

1801	322.3		
	352.0	29.7	
	142.3	29.7	2.88
	172.0	<u>459.4</u>	

2.78

	323.4		
	357.1	33.6	
	144.0	31.6	2.67
	175.6	<u>65.2</u>	

15.08 + 2	Rev. Plnd.		3.04
~~8592.839~~	56.9		

15.10	81.9	25.0	
8592.840	236.1	25.8	3.24
	261.9	<u>50.8</u>	

	58.0		3.29
--	------	--	------

	80.9	22.9	
15.16	236.7	25.6	3.34
~~125.16~~	262.3	<u>48.5</u>	

Feb. 27, 1937

VII

15.18

57.0

81.1

24.1

236.8

26.6

3.24

263.4

50.7

3.32

58.2

81.4

23.2

237.8

24.2

3.39

15.24 + 5

262.0

47.4

3.06

~~8592.850~~

Pendulum

143.2

15.29

175.3

32.1

8592.854

324.9

29.3

2.81

354.2

61.4

2.81

144.8

173.2

28.4

323.5

32.9

2.81

15.30

356.4

61.3

0' / Cape { on,
Rec.
VIII

Feb. 27, 1937
Clock runs too fast

15:35	145.8		
	173.8	38.0	
	325.8	30.5	2.92
	356.3	<u>58.5</u>	

2.84

	143.5		
	174.5	31.0	
	325.0	31.8	2.76
15:42 + 8	356.8	<u>62.8</u>	

~~8592.862~~ Rev. Phot. 3.12

15:50	237.8		
8592.868	262.5	24.7	
	37.1	<u>22.9</u>	3.38
	80.0	47.6	

3.39

	238.0		
	262.2	24.2	
	~~56~~ + 568	<u>23.0</u>	3.40
15:48.8	79.8	47.2	

Feb 27, 1937

IX

15

151.56

55.1

81.2

26.1

237.8

24.9

3.23

262.7

51.0

3.20

56.6

81.9

25.3

235.7

27.1

3.17

262.8

52.4

2.99
~~3.99~~

re.

~~8592.876~~

Rev. P. Int.

16.02 + 12

1430

16.14

1770

34.0

8592.885

324.0

31.8

2.65

355.8

65.8

2.78

145.2

173.7

28.5

324.9

30.4

2.90

355.3

58.9

16.07

Feb 27, 1937

G/Ref } 6th
RenX

16:36

324.5

355.6

31.1

143.8

29.9

2.82

173.7

61.0

2.80

324.9

356.4

31.5

142.8

31.0

2.77

173.8

62.5

~~8592.878~~

16.40 + 20 Rev. Plant.

3.09

~~16.60~~ 17:00 56.6

8592.917

80.3

23.7

238.5

23.3

3.41

261.8

47.0

3.38

56.3

80.8

24.5

238.0

23.9

3.34

16:45

261.9

48.4

Feb 21

6/Kep { obs,
Reci

XI

16.47

58.2

78.5

~~230.3~~

237.5

25.2

3.48

262.7

45.5

3.40

56.3

81.1

24.8

238.0

23.9

3.33

261.9

48.7

16.54 + 23 Rev. Plant,

3.14

16.77

144.3

171.17

174.5

30.2

8592.928

324.9

30.7

2.83

355.6

60.9

145.2

2.87

173.8

28.6

323.8

30.1

2.91

17.01

353.9

58.7

Feb. 27, 1937

O'Keefe { obs
Proc.

18:03

144.1

172.7

326.0

356.3

144.0

173.0

Too much light
Watch 31^m slow at 5:47 (true)

Flashlight batteries fable. fable

Clock fast.

Watch slow

Focus broken

15 inch book missing

Loses 31^m from 15:00 to 17:26
or 12^m per hr.

Loc. Sid.

March 19-20, 1937

Standt watch.

phot. T

Conv to EST

 $= - \text{# min } 4.8 \text{ m}$

8:59.2

198.7 101.6

290.3

21.7 97.5

119.2

r.l. 199.1 ^{160.9} + 0.36

108.7

~~119.4~~ 95.4

204.1

292.9

91.3

178.2 + 0.13

224.2

186.7

EST = 9^h 01.0

+ 0.12

9 5.8

rev. phot.

204.8

82.0

286.8

~~82.0~~

171.3

98.2

115.6

180.2

0.00?

106.8 97.5

204.3

82.7

287.0

218.0 180.2

0.00?

9:

9:12.5

{ Obs. W.W.A.J.

{ Rec. N.K.R.S.

left hand star is the wide pair. Right-hand star will be taken as bright and dis.

Comp B, bright + dis.

Left star = Comp I

H

VV Cep 15" Equat + Phot T

July 3, 1937

Σg

Sid 4 58 43 = 9 56 00 EST Slightly Hazy

I

5 1140

8.2

✓

Focus very poor

393

<

31.1

Refinition

1863

35.0

2213

66.1

2.64

2.61

2.36

44.5

<

41.9

180.4

417

222.1

836

2.09

Rev

1.85

260.3

315.8

<

55.5

869

546

1415

1101

142

2617

134

3211

<

594

831

572

5 18 10

1403

1166

127

July 3, 1937

II
Σg

5° 19' 15"

266.0

✓

314.0

480

903

483

Definition OK

1386

963

175

2680

3188

508

1.73

890

471

1361

979

171

Rev

0.0

1.86

49.4

494

182.8

416

2244

91.0

189

4.3

1.99

48.4

441

1824

399

5° 25' 00"

2223

440

208

;

III

5 26 55

3.3

✓

41.8

38.5

1833

414

2247

799

220

47

219

454

407

1821

398

2219

805

218

Rev

5.1

90.3

2.00:

1373

470

2661

498

3159

968

174

899

181:

1373:

474:

2717

444

5 32 30

3161

918:

187:

5 33 00

86.7

139.0 <

270.7

318.9

523

482

1005

164

888

1.70

1382 <

494

2710

464

3174

958

176

Rev

1.91

1830

2237 <

407

2.7

424

451

831

210

1827

2229 <

402

4.0

413

45.3

815

215

212

5 38 50

IV

89

V

5 4030

178.0

✓

223.7

45.7

2.4

406

43.0

863

201

179.2

195

223.7

445

3580

461

441

906

190

Rev

191:

2730

3142

412

890

498

1388

910

189

2721

187:

3189

468

880:

456:

5 4615

1336

924:

185:

5 47 15

2683

3131 $\leftarrow$ 448

926 428

1354 876

Def not so good
198.VI
eg

2716

3160 444

932 $\leftarrow$ 400

1332 844

202

207

Rev

3591

2.01

431 $\leftarrow$ 440

1798 432

2230 872 199

1.3

2.00

457 444

1811 $\leftarrow$ 417

2228 861 202

5 53 40

July 3, 1937

VII
Σg

5 54 45

2.7

✓

44.2

415

1868

369

2237

784

224

4.1

443

402

222

1838

399

2237

801

219

Rw

80.2

192:

1368

566

2757:

410:

3167

976:

172:

862:

162:

1350

488:

2634

564

60200

3198

1052:

153: ✓

6 03 00

85.1

1393

2654

3225

542

571

1113

139

868

1423

2680

3193

555

513

1068

149

Rw

1800

2241

7.8

40.3

441

325

766

230

185.7

2228

3.0

40.4

371

37.4

745

236

6 08 40

VIII
EQ

144

2.3

1.89

233

July 3, 1937

TX
EG

61020

1870

✓

2213

343

60

366

426

709

248

1850

242

2249

399

60

344

404

743

237

Rev

197:

2659

3154

495

872

536

1408

1031

158

2660

152:

3197

537

842:

551:

61530

1393

1085:

145:

EST 1121

= Sid 6 # 23 55

100

100

100

100

100

VV Cap 21 55' +63.3

July 21, 1937

EJ
I

moon almost full.

11 10 00 EST = 7 23 13 Sid
✓

7 42 45'	3.4		
37.3	←	33.9	
1808		<u>3 69</u>	
2177		70.8	2.48

0.0			2.30:
40.2:	←	40.2:	
1804		<u>4 2.7</u>	
2231		82.9:	211:

Rev

2667			
3178	←	511	
840		<u>460</u>	
1300		971	173

2698			180
3135	←	437	
900		<u>474</u>	
7 50 00	1374	911	188

✓

July 21, 1937

EG
II7 52 ¹⁰~~60~~

866

$$\begin{array}{r}
 1350 \leftarrow 484 \\
 2657 \quad \underline{487} \\
 3144 \quad 971
 \end{array}$$

173

844

$$\begin{array}{r}
 1353 \leftarrow 509 \\
 2671 \quad \underline{466} \\
 3137 \quad 975
 \end{array}$$

172

172

Row

2.3

208

$$\begin{array}{r}
 40.2 \leftarrow 379 \\
 1840 \quad \underline{360} \\
 2200 \quad 739
 \end{array}$$

238

25

245

$$\begin{array}{r}
 384 \leftarrow 359 \\
 1850 \quad \underline{336} \\
 2186 \quad 695
 \end{array}$$

252

7 58 30

July 21, 1937

Σg
111

8 00 40

1.4

428

1797

2187

414

390

804

218

00.7

233

383

1854

2187

376

333

709

248

Rev

2697

2.00

3121

843

1361

424

518

942

180

2651

3162

866

8 08 30

140.2

511

536

1047

167

154

J

EQ
IV

8 10 45"

2617

3118

501

841

530

1371

1031

158

2636

158

3153

517

833

515

1348

1032

158

Rev

1732

197

2187

455

40

341

381

796

221

1848

236

2207

364

3.0

337

8 16 35"

36.7

701

250

July 21, 1937 Σg
 $\frac{I}{V}$

8 18 00

180.8

219.4 <

3.3

388 :

386

355:

74 1:

237:

1851

2170 <

42

383

319

341

660

250:

264

Rev

850

1386

2654 <

3126

536

472

1008

1.64

2.05:

808

1362 <

2660

3144

554

484

1038

160

156

8 24 40

✓

Σ J
VI

8 25 20

79.4

1335

2681

3160

541

479

1020

161

772

1416

2668

3141

644

473

1117

138

Rev

2.6

394:

1815

2185

368:

370

738:

238:

1.97:

4.0

40.0

183.0

2172

36.0

34.2

702

250

244:

8 31 15

July 21, 1937

Σ 9
VII

8 32 10

21

400 <

1812

Σ 183

37.9

371

750

235

2.8

250

367 <

1850

2171

339

321

660

264

Rev

2628

1.96

3131 <

823

1403

503

580

1083

146

2614

142

3178 <

811

8 38 00

1359

564

548

1112

139

EST 12 39 00 = Sid 8 5-2 24

VVCaps 2155 +63.3

Sept. 6, 1937

14.3 prisms 22 angle

W. lter. than comp x

EG {Sobs
Rec

Sid 8:19:03 = 9:00 E.S.T.

Clock not driving

I

8:40

304.3 VVdisap

5.9

L

61.6

1300

57.7

1877

119.3

1.21

2990

1.18

358.7

597

124.2

L

626

1868

1223

1.14

Res

Focus + cl trouble

2264

1.65

2690

L

426

497

372

869

798

2.20

2280

2.12

2646

L

366

491

405'

857

2.03

8:53

896

Sept 6, '37 II
29

9 27 00

2297

2630

484

835'

333

351

no clock

684

2.56

2308

2640

477

856

332

379

711

2.52

2.47

Rus

1297

1862

31371

5.9

5'65"

5'22"

1087:

1.45"

2.06

1298

1853

3129

3533

5'55"

404

959

1.60

1.76

9 37 00

9 55 45

1267

1802

3113

1.1

hours good

535

498

1033

1.58

Sept 6, 1937 III
EG

1273

1.46

1826

553

3091

577

6.8

1130

1.35

Rev

417

880

463

1.66

222.8

2659

431

466

402

86.8

833

2.10

2208

2697

489

1.85

384

534

10 07 30

918

1023

160

Sid 10 19 22 = 11 00 00 EST

Tues. Sept. 14, 1937

E. S. Thom
1400

15" E. S. S.

Nova in NGC 1003

2 30 +40.2

17	48
8	00
19	48
26	30
6	42 E

Obs'd Dec +40.2
H.A. 6:6 East at 9:23 D.N.T.

f 23

Nova is brighter of two magnitudes
and the southern of the two = 3 magnitudes
brighter than the northern star f.c.
Obs'd by f.c.

Identified from Dr. Clark's plate
RH 77710 from observation by D. Hoffleit.

f 26 Est by D. Hoffleit = Nov ^{=2*} 0 No Comp

f 25 Est by L. S. Cunningham. Nova 4 No.
Companion.

* according to Angeland's steps.

Wednesday Sept. 15, 1937

EST from
Moon

15" Equatorial

Moon in NGC 1003

2 35 +40.8

9 00 Est. by D. Hoffleit Moon 2 Conf* nearby.

Est by D H Menzel Moon 0.2 mag Conf*

Est by L E C Moon 4 Conf*

Saturday Sept. 18, 1937

EST/m-Nova 15" Eq.

Nova in NOC 1003

Comp* is 32" north of nova.

9. 15 Est. by D. Hoffleit Low-power eyepiece Nova 3 cp*
 1" eyepiece Cp* / Nova

Est by L&C Nova 4 cp*

Sunday Sept. 19, 1937

Best for Nov 15th Ez.

Nov in N.C. 1000

9 30 Est by D/Hoffleit * Cp * 0-1 Nov

Est by L&C

Nov 3 cp*

* with left eye hasty glance Nov 3 ap
above est = av. of many est. with rt. eye.



$2^h 30^m 25 + 40^\circ 15.8$

Nova in NGC 1003

10.1

SAVE

1907

in NGC 1003

4.1 Cpx

2 Cpx

1907

in N6C1003

10.1

SAVE

1 cpx

- cpx

Monday Sept. 20, 1907

15th Cy.

Nova in NSC 1003

10.15 Est D Hoffliet Nova 0^m.1 cpx

Est of EC Nova 2 cpx

Wednesday Sept. 22, 1937

15⁰⁰ Eng

Now NSC 1003

10.30

D. Hoffleit
LEC

12.7 :

12.6 :

Sunday, Sept. 26, 1937

13^h 5^m

Nov = NGC 1003

8:30

D. Hooplit
Lac

12.9

12.7

Wed. Sept 29, 1937

15" E. 29. Nova NSC 1003

945 $\begin{array}{r} 12 \ 48 \\ 9 \ 40 \\ \hline 22 \ 28 \\ 26 \ 25 \\ \hline 4 \ 53 \end{array}$ $\begin{array}{l} \text{est CS (127) 4 Nova P.C. Ab.} \\ \text{est CS (127) 5 Nova P.C. Ab.} \end{array}$
 $\begin{array}{r} 4 \ 53 \\ \hline 4 \ 53 \end{array}$ + 40.2

est 12.6

D. Hoffleit

953 Est 12.8

R. E. Campbell

Monday, Oct. 11, 1937

15th Equatorial

Mon N6C 1003

10:30 D. Hopkin + LSC 13.4 ±

Mon. November 28, 1938

15" E Eq Campbell with Carr
Lesson to students in
use of telescope & dome.

New & longer cords on
telescope - Look at step ladder
top shutter of dome needs attention.
Oil up tailpiece of telescope

Throd. 3424
\$ 47 59
\$ 48 58.5

Bond 394
\$ 48 00
\$ 49 00

Looks at door of cellar

Wednesday Dec. 7, 1938

Prod. 5424

Bond 39X

7:49^m 45^s

7:50:00

7:50^m 45^s

7:51:00

15" E E₂ LC is clear
Phot T

U Cep $\begin{matrix} h & m & s \\ 00 & 53 & +1 \\ 01 & 20 & \end{matrix}$

S.T.

HA 0 27 W + 81.0

$\begin{matrix} 17 & 20 \\ 2 & 50 \end{matrix}$

S.T. = 1 20 at 8:00

H.A. = $\begin{matrix} 0^h 45^m W \\ 0^h 30^m W \end{matrix}$ at 8:20^m E.S.T.

$\therefore$ S.T. = 1^h 38^m at 8:20^m E.S.T.

Following observations
considered as experimental

$$\begin{array}{r} 8.100 \\ 2.115 \\ 2.0 \\ 4.5 \\ \hline 3.20 \end{array}$$

Dec. 7, 193A

Σ ST
Noon

ll Cep
Por ang 20° Ver B
I Zell
Do/On 9c Rec

h m s			
9.10 15	- 153.3	Ver dia	
	> 204.2	50.9	
	- 339.8	42.7	
	22.5	93.6	- 1.82

- 160.9		- 1.82
---------	--	--------

- 201.0	401	
> - 337.8	531	
- 30.9	93.2	- 1.83 B

Rev. Phot. Por A. Ver A P.A. = 200°

- 235.5		
- 298.0	62.5	
> - 62.3	55.5	
- 117.8	118.0	- 1.24

mean = - 1.38
CS = 1.41
7.03

- 244.9		- 0.93
---------	--	--------

> - 297.9	530	
- 30.6	947	
h m s		
9.19 65	- 125.3	147.7
		- 0.62

$$\begin{array}{r} 9.14 \text{ ST} \\ 40 \\ + 15 \\ \hline \end{array}$$

CS = 1.41 (used by O.C.W. DFC)

9.14 ST E.P.T

14.14 55 ST (Noon)

2429244.6215

Dec. 7, 1938

U Cep

II

Ellis Obs
Bidelman Rech m s
9 22 52Pos Ang. 200° Ver B

228.2 < var. disof

307.6

66.4

111.7

794

453

124.7 - 109

242.6

292.2

303.3

57.6

49.6

4.3

Rever Photometer

Pos A 20° Ver B

334.5

36.0

159.2

198.7

61.5

395

101.0 - 163

mean = $\frac{-1.27}{241}$

7.14

341.7

22.4

151.6

227.4

407

758

116.5 - 1.27

- 1.45

9h 35m 6s

57 58

9 29 59

115

9h 30 14

242 92 40. 6044

Dec. 7 - 1938.

4 Cep

III

Levin Ob

Ellis Rec

PA. 20° Ver B

h m s

9 38 55	325.0	63.9	
	28.9		
	142.9		
	205.5	<u>62.6</u>	
		126.5	-1.05

312.1	67.3	-1.12
19.4	53.4	
146.8	<u>120.7</u>	-1.18
200.2		

Reverie Photometer Pos. 2 200° vernier B

58.9	65.7	mean	-1.12
424.6	59.3		8.41
239.9	<u>125.0</u>		<u>7.29</u>
299.2			

-1.08

-1.12

66.5	52.4	
118.9	<u>69.2</u>	
232.2	121.6	-1.16

9 57 35 - 301.4

9 48 30
 15
 + 15
 14 48 30
 9240.6170

Dec. 7, 1938

u Cephei IV
Cobb Ols
Levine Res.

P. 200° Ver B

h	m	s		
10	2	58	44.0	76.5
			120.5	69.2
			~~109.~~ 226.9	145.7
			~~296.7~~ 296.1	

75.9	38.9
114.8	95.4
216.9	134.3 - 0.89
312.3	

~~P. 200°~~ Reverse phot. for 15° Ver. B

130.4	95.4
225.8	
337.5	50.9
18.4	146.3

166.5	35.0
201.5	64.3
320.7	99.3 - 1.67

10 12 45 - 25.0

10^h 7^m 52^s

5 15

15^h 8^m 7^s

2429240.6307

Dec 7 1938

U Cephei IV

P. $\angle$ 15° Ver B

Bridleman = Observ.

Cobb = Record

h m s

10 15 16 154.2

210.2

341.8

20.2

161.2

201.9

~~60.1~~Pos. $\angle$ 25° ~~Reverse phot pos $\angle$ 15°~~ 10 29 00 useless to continue clock out
of order. J.C.C.

Bend

FF 54 24

10 39 45

FF 39 x

10 40 00

Saturday Dec. 10

W. B. Bidelman

7-10 EST?

General tryout of telescope

None of the eyepieces for micrometer
will focus. Closest to a focus are the
12 and 2600 powers.

Clock apparently all right. Very little
off but can be fixed all right.

Cross wires will not focus on micro-
meter. Will work on this and general focus
later.

Light O.K. on micrometer I think.

Micrometer all right in general except focus.
 $\frac{1}{2}$ inch eyepiece probably best if can separate it
and get it to focus.

Mon. Dec. 12, 1938

L. G. watch correction = +26^s slow at 8^h 6^m E.S.T.
by Fred 39 X
15" E. eq. L.C. & J. de Jonge

11 Cep. 00 53.81 Phot T.

$$\begin{array}{r} 24 \\ 00 \quad 53 \quad + 26.6 \\ \hline 20 \quad 00 \\ \hline 2 \quad 00 \\ \hline 1 \quad 07 \quad W \end{array}$$

S.T. = 1 58 00 8:20 E.S.T.

$$\begin{array}{r} 00 \quad 53 \\ 12 \quad 04 \\ \hline 1 \quad 15 \quad W \end{array}$$

De Jonge obs
Cobb Recording

Pos ~~L 20° 45'~~ 22°
10^h 59 44.0 Van der?

10^h 01^m 25^s 314.3 <
45.3

$$\begin{array}{r} 91.0 \\ 47.3 \\ \hline 177.2 \quad 178.3 \quad - 0.03 \\ 224.5 \end{array}$$

315.2

~~174.4~~ - 0.10

i 52.5

149.1

223.0

$$\begin{array}{r} 97.3 \\ 73.9 \\ \hline 171.2 \quad - 0.17 \end{array}$$

Reverse photometer to 202°

difficulty had to reset telescope

122151.001

pg. 1

11
11
5
76
11

Dec. 12, 1938

$$\begin{array}{r}
 69.0 \\
 i \quad 130.2 \\
 243.8 \\
 302.0 = (302.0)
 \end{array}
 \begin{array}{r}
 61.2 \\
 57.2 \\
 \hline
 119.4
 \end{array}
 \begin{array}{r}
 \text{Mean} = -0.80 \\
 \text{C.S.} = 1.41 \\
 \text{mag} = 7.61 \\
 -1.21
 \end{array}$$

$$\begin{array}{r}
 75.2 \\
 i \quad 117.7 \\
 246.9 \\
 11 \quad 29^m 30^s \quad 298.4
 \end{array}
 \begin{array}{r}
 42.5 \\
 51.5 \\
 \hline
 94.0
 \end{array}
 \begin{array}{r}
 -1.51 \\
 -1.81
 \end{array}$$

11 15 28 ^{SM I. N. W.} Cobb meas. II de Jonge recorder
 5 + 26
 16 15 54 Posit. Angl. vem. B 204°
 11 33 25 296.7

$$\begin{array}{r}
 63.6 \quad 126.9 \\
 i \quad 119.1 \\
 244.6
 \end{array}
 \begin{array}{r}
 252.4 \\
 125.5 \\
 \hline
 252.4
 \end{array}
 \begin{array}{r}
 107.6 \\
 1.97
 \end{array}$$

$$\begin{array}{r}
 305.0 \\
 63.6 \quad 118.6
 \end{array}
 \quad 1.89$$

$$\begin{array}{r}
 i \quad 131.3 \\
 230.0 \\
 R. Ph.
 \end{array}
 \begin{array}{r}
 217.3 \\
 98.7 \\
 \hline
 275.7
 \end{array}
 \begin{array}{r}
 142.7 \\
 1.77
 \end{array}$$

$$\begin{array}{r}
 33.6 \\
 i \quad 151.8 \\
 171.1
 \end{array}
 \begin{array}{r}
 118.2 \\
 37.5
 \end{array}$$

$$\begin{array}{r}
 208.6
 \end{array}$$

Dec. 12, 1938

$$\begin{array}{r} 7 \\ 338.9 \end{array} \quad 43.5$$

21.4

102.3

1.60

8.91

$$\begin{array}{r} 149.2 \\ 200.0 \end{array} \quad 58.8$$

1.09

1.38

200.0

$$\begin{array}{r} 12.69 \\ 1.34 \end{array}$$

7.07

h m s i
11 48.35
E.S.T.

Not sure whether right stars were used.

watch comparison ??

Tues. Dec. 13, 1938

F 5424
 } 02 46
 } 63 46

Hard 394
 } 03 50
 } 04 50

15" S. Sg.

Phot T.
 De Jonge

U cephei

00 53 + 1.6

01 6 20

EST (V. 6000) 0 1 0

I De Jonge measuring
 pos L =

Cobb Recording

740^m 16 333.8 Vardis

i 31.4

160.0

201.2

339.3

i 25.4

156.4

744 30 213.6

Reverse Photometer

747 30 66.6

117.0 50.4

239.2

311.5

58.2

125.6

254.8

749^m 54 302.8

Dec. 13, 1934

II Cohn observer

de Jonge recorder

7^h 52 567^h 53 31

EST

Pos. & 200° Venner B

116.4 Comp. star dis.

248.3

307.6

62.3

125.4

243.7

303.8

68.8

Rev. Phot.

328.6 Var. disc

39.2

352.2

18.4

156.6

210.5

344.8

22.5

7^h 3^m 46^s
E. ST

Dec. 13, 1934

III DeJonge Obs

Cobb Recording

8^h 08^m 10^s Pos L 20° variable to the right

157.0	
212.2	var. dis.
346.7	55.2
	40.5
~~27.2~~	95.7

27.2

162.3

i 201.8 39.5

334.4 54.3

28.2 93.8

Rev. Photometer Pos L 20°

62.4

124.8 62.4

247.4 53.0

300.4 115.4

70.0

125.2 55.2

298.8

8^h 16^m 35^s 303.8

Tuesd. Dec 13 1938

Cobb obs.

de Jonge rec.

IV

8^h 20^m 44^sPosit. & 200° Venner B
Var. disap.

8 21 12

62.2

i 132.2 70.0

248.8 58.4

307.2

71.1

i 130.0 58.9

239.7 57.0

2246.7

Rev. Phot. Pos. & 20°

151.4 70.8

i 222.2 43.7

235.5 345.5

29.2

165.0

203.4

i 338.1

8 27 14

38.2

Tues Dec, 13 1938

73

V

De Jonge obs

Cobb rec,

Pos 20°

8 39 30

157.2

54.9

Compd B.

212.1_L

347.3

~~34.8~~

24.1

47.9

102.8

167.7

202.1_L

34.4

350.1

32.2

32.3

66.6

Rev Photo

200°

235.1

68.3

303.4_L~~65.4~~ 66.5

55.1

121.6

123.4

~~244.3~~

- 244.3

- 303.0_L

59.5

8 54 09

125.6

Thurs Dec 13 1938

Cobb obs.
Pos. 200° V. B

de Jonge rec.

VI

~~8 52 34~~ ~~127.6~~ ~~Var. disp.~~

9 10 31 239.8 Var. disp.

313.0 73.2

71.0 50.8

121.8 124.0

239.6

33.9 54.3

64.8 63.2

128.0 117.5

Phot. Pos. & 20°

338.5

35.0 56.5

i 170.5 39.7

210.2 96.2

350.2

33.8 43.6

i 149.0 60.4

9 22 15 209.4 104.0

Tues Dec. 13 1938

75

VII

DeJonge 82

CBB rec

Pos 20th

9 32 48	156.2	vari dis.
	214.3	58.1
	340.9	55.1
	35.8	113.2

168.7	35.0
203.7	
343.5	59.7
33.2	94.7

Rev Photon

~~307~~ 250.0	49.5
299.5	
72.8	52.0
124.8	101.5

245.9	62.0
307.9	
69.5	56.5

9 43 35	126.0	118.5
---------	-------	-------

Thurs Dec 13 1938

Obs. G.H.H.

rec. J. de Jongs

9^h 52 6 240.3 Pont. & 200°

311.5

71.2

Van. dir.

i

68.7

~~55.3~~ 55.3

124.0

126.5

245.6

58.5

304.1

55.7

i

64.2

114.2

119.9

Rev. Phot.

334.8

60.8

35.6

39.2

i

168.7

100.0

203.9

343.1

46.4

29.5

61.3

i

148.7

107.7

10 3 18

210.0

Prod 3424

Prod 394

10 22 46

10 22 00

Wed. Dec. 14, 1938

77

Prod 5424

7:21:45 $\frac{1}{2}$

7:22:45 $\frac{1}{2}$

Bond
~~Prod~~ 394

7:22:0

7:23:0

15" Ex. Eq.

Phot T.

U cap.

00 5-3 + 21.5

01 13

0 20 W + 81.5

Obs. - Levine

Recorder, Ellis

1253 m. 50.4 var. dis.

i 123.7

252.5

303.0

28042 100. too Clouds to observe.

Rev. Phot.

Jan 9 Mon 1939 (15" E. Equatorial)
Cobb's watch Bond 394
9:56:12 9:56:00
Photometer T U ceph

ST =

Weather became cloudy just as
we got ready to observe forcing us to
lay off for the night 10:30 PM.

J. C. Cobb

T. De Tenge.

Sun Jan 15 - (1) 3rd

15th Eq.
 Fred 3021
 9 26 20

Plot T
 Fred 394
 9 27 00

11 Cep ²⁴ 00 53 P1
²⁹ 33

 4 40

HA 4 44 at 9:43
 0 53

S.T. 5 37 = 9:43
 add 4^h 6^m

11 cep at Max: no use to try
 to obs. a min. Dome refused to
 turn! 10:10 m E.S.T.

Fri Jan 20, 1939

~~Bond~~

flood

4 54 27.5

~~Bond~~ Bond

4 55 0.0

15" sq.

Phot T.

CR & F. E. E.

U Caphei 005301

Stal. Increase = 20^h 12^m.

0	53	20	12
~~20~~	~~12~~	5	25
~~21~~	~~25~~	25	37
		24	33

0 44 W

200

Group I

sh 43 152

232.4 v. dist.

324.4

328.9 965 ✓

51.2

868 ✓

55.5 229 ✓

150.6

712 ✓

138.4 179.4

221.8

52502252

-001

239.0

318.6 79.6 ✓

-002 ✓

46.5 983

144.8 177.9 -000 ✓

120

mean = 814^h

-0.25^m

2

7.91

332.8

44.4

716 ✓

141.0

238 ✓

224.8

155.4 ✓

-0.44 ✓

10 46 58
- 28

10 46 22

9284.41509

Group II Jan 20 - 1939 I.C. obs. F.E. recorder

54512113

330.0

41.2

146.8

230.8

71.2 ✓

84.0 ✓

155.2 ✓

- 0.47 ✓

- 0.52 ✓

331.7

54.4

152.4

~~229.8~~ 219.8

82.7 ✓

67.4 ✓

150.1 ✓

- 0.57 ✓

reversing

Jan 20

67.2

131.4

244.7

315.5

64.2 ✓

70.8 ✓

135.0 ✓

- 0.88 ✓

59.2

137.8

246.4

312.2

78.6 ✓

65.8 ✓

144.4 ✓

- 0.78 ✓

- 0.69 ✓

54572530

10 54 32

10 54 6 con S.M.T.

9284.4543

Jan 20 - 1939

PA 200

 $\frac{171}{\text{Selis Alb.}} \\ \text{R.C. Rec}$

G 0135 - 231.2 Vardis

325.8

57.0

129.1

$$\begin{array}{r} 94.6 \\ 72.1 \\ \hline 166.7 \end{array} - 0.25$$

249.3

308.0

64.9

145.3

$$\begin{array}{r} 58.7 \\ 81.4 \\ \hline 140.1 \end{array}$$

- 0.51

- 0.77

P.A. 120

328.0 (C) dis

57.0

130.2

241.7

89.0

104.5

209.5

162.5

$$\begin{array}{r} \text{Mean} = \frac{81.4}{1.66} \\ \hline 0.48 \end{array}$$

* - 0.52

- 0.46

EX 20 1

307.3

60.9

137.8

224.3

1136

86.5

2001

1599

- 0.38

G 1005

C1 05 50

10 05 22

92 84.46 21

Jan 20, 1939

1.6 obs.
J.E. rec.

6L 12m82 53.6 on disc

147.0

243.7

318.2

$$\begin{array}{r} 934 \\ 745 \\ \hline 1679 \end{array} - 023$$

024

68.4

136.1

228.4

327.0

$$\begin{array}{r} 677 \\ 986 \\ \hline 1663 \end{array} - 026$$

P.A. 200

$$\begin{array}{r} 814 \\ -0.58 \\ \hline 7.56 \end{array}$$

152.2

222.8

334.0

44.9

$$\begin{array}{r} 706 \\ 709 \\ \hline 1415 \end{array} - 0.74$$

151.4

218.0

341.2

$$\begin{array}{r} 666 \\ 576 \\ \hline 1242 \end{array} - 0.92$$

6L 182 322. 38.8

$$\begin{array}{r} 111520 \\ 111452 \\ \hline 9284.4687 \end{array}$$

11.4759

Jan. 20, 1939

85

6 19 9

152.9

220.0

327.7

48.2

67.1

80.5

147.6 - 0.62

156.4

222.2

342.0

39.8

65.8

57.8

123.6 - 1.11

P.A. 200

245.9

321.2

48.7

140.0

75.3

91.3

166.6 - 0.25

237.2

323.0

59.4

137.0

85.8

77.6

163.4 - 0.32

6h 24 18

43 27

11 21 48

11 21 16

92F4.4731

16. dec V
F.E. rec.

814

0.57

7.57

- 0.22

204

Jan 20/1939

VI

6 27 10

Pa 200

222.4/csd

Relis Ob

Le. Rec

338.3

1155

40.3

115.7

156.0

231.2 - 100 ✓

128.8

225.2

968 ✓

off ✓

322.0

1226 ✓

398

219 ✓

- 076 ✓

162.4

1486

Pa. 20

239.8 Van Dis

323.8

240 ✓

67.3

614 ✓

128.7

145.4 - 0.67 ✓

814,

mean = -0.70

7.44

242.0

- 0.53 ✓

310.8

68.8

59.4

90.9 ✓

6 40 15

150.6

159.7 039 ✓

68 25

11 34 12

11 33 44

9284.4815

Jan. 20, 1939

87

VII

L.C. obs.
H. Rec.

6h 43m 28s

49.2 van der ✓
 139.0 298 ✓
 240.6 744 ✓
 315.0 164.2 ✓ — 0.30 ✓

68.8 200 - 0.40
 138.8 590 ✓
 237.4 235 ✓
 320.9 153.5 — 0.51 ✓

~~160.2~~
~~215.4~~
~~275.2~~
 327.8 ✓

8 14
 - 0.5 A
 7.56

45.1 < as dis.

150.0 104.9 ✓

221.0 113.7 ✓

6 49 15

334.7 218.6 ✓

141.4 ✓

- 0.75 ✓

41.6

156.8 115.2 ✓

224.0 100.4 ✓

0.76 ✓

328.4

219.6 ✓

- 0.77 ✓

140.4 ✓

6 51 24

11 47 26

11 46 58

9 28 44 910

Ball's Pond.

7 00 00

Flud

6 59 28

Wed. June 7, 1939

E.S.T.

from Noon

15" E. E_g

Obs.

cleanth & Dec. circle

Mon July 3, 21:35 to 22:35
Too many clouds. J. Hansen

2002 June 7/12/39

25/12/39

as the machine runs

1936 June 7/12/39
The 2002 June 7/12/39
1936 June 7/12/39

1 5-8
2 02 fact E.S.T.

