KG
11365
636

1936phae.proj..637B

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KG 11365.136

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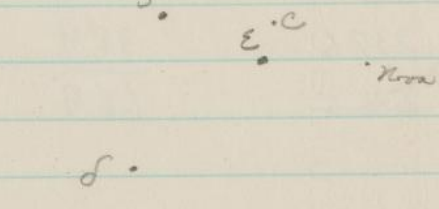
1936phae.proj..627B

June 28-29, 1936

Nova Lacertae I Obs., Rec. JSB.

EST from Noon	PA. 180°		C.S.
9:27	158.0		
	183.0	25.0	
	329.4	36.7	-2.80
	06.1	61.7	
	151.2		
	188.9	37.7	
	335.9	25.9	-2.73
	01.8	63.6	
	P.A. 0°		
	243.8		
9:32	271.8	28.0	Stopped by clouds.

Naked eye estimate of nova: nova at 8:45 EST from noon 1/10 mag. brighter than star C on L.C.'s chart.



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1936phae.proj..637B

2

JUN 28 1936

II

13:36 PA 180°

331.8

3.9	32.1	
156.6	27.2	−2.89
183.8	59.3	

−2.92

337.3

1.9	24.6	
154.5	32.8	−2.96
187.3	57.4	

PA 0° Mean: −2.77

61.8

98.0	36.2	
242.5	29.9	−2.64
272.4	66.1	

−2.62

66.2

94.2	28.0	
237.6	38.9	−2.61
276.5	66.9	

13:48
13:42

Position rather uncomfortable.

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1936phae.proj..637B

JUN 28 1936

III

PA 0

13:49 61.1

96.3 35.2

245.0 27.5 −2.76

272.5 62.7

−2.69

63.9

92.6 28.7

239.5 38.1 −2.61

277.6 66.8

−2.80

PA 180

153.9

186.6 32.7

335.2 26.6 −2.89

1.8 59.3

−2.91

157.9

181.4 23.5

329.7 34.8 −2.93

14:01 4.5 58.3

13:55

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1936phae.proj..637B

JUN 28 1936

IV

PA 180

14:05 153.8

187.4 33.6

333.9 27.3 −2.83

1.2 60.9

−2.87

156.5

180.8 24.3

330.8 34.3 −2.91

5.1 58.6

−2.71

PA 0

237.2

275.6 38.4

65.1 28.5 −2.61

93.6 66.9

−2.54

242.3

272.6 30.3

58.6 40.6 −2.48

14:19 ~~14.1~~ 99.2 70.9

14:12

Uncomfortable position delays observation.

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1936phae.proj..637B

JUN 28 1936

V

PA 0°

14:22 238.1

275.6 37.5

66.8 ~~7.8~~ 27.2 −2.69

~~44.6~~ 94.0 64.7

−2.65

244.3

272.2 27.9

60.4 39.3 −2.60

99.7 67.2

PA 180 −2.82

331.5

5.9 34.4

157.2 24.0 −2.92

181.2 58.4

−2.99

336.2

1.1 24.9

156.3 30.1 −3.06

14:34 186.4 55.0

14:28

Pawn.

Naked eye estimate of nova place it slightly over half between ε & C on L.C.'s chart toward C. at 14:40 EST from room = 4.0

1936phae.proj..637B

6 Begin

Nova Lacertae

I

July 1 – 1936

EST from Noon

P.A. 180°

15" Phot. J.

Obs. JGB.

8: 42

155.3			
196.3	41.0		C.S. Same.
335.4	34.9	−2.32	
10.3	75.9		
			−2.28
157.9			
191.0	33.1		
329.7	45.3	−2.24	
15.0	78.4		
P.A. 0°			Mean = −2.29
240.4			
285.9	45.5		
67.3	33.6	−2.22	
100.9	79.1		
246.4			−2.30
278.6	32.2		
59.2	41.5	−2.39	
100.7	73.7		

8.50

8: 46

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1936phae.proj..637B

July 1 - 1936 II

8:51 P.A. 0°

239.8

286.9 47.1

64.8 37.1 −2.07

101.9 84.2

245.2 −2.12

280.6 35.4

61.3 45.6 −2,17

106.9 81.0

P.A. 180° Mean = −2.18

331.1

14.6 43.5

158.0 32.4 −2.32

190.4 75.9

337.1 −2.24

10.8 33.7

150.5 47.9 −2.15

8:57 198.4 81.6

8:54

Obs 9213.

CS base

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1936phae.proj..637B

July 1 - 1936

III

P.A. 180°

8:58 329.5 Obs JJB.

13.0	43.5	
158.0	32.8	−2.31
190.8	76.3	

−2.29

336.5

10.0	33.5	
153.5	44.0	−2.27
197.5	77.5	

Mean = −2.20

P.A. 0°

58.7

108.2	49.5	
243.4	37.5	−2.00
280.9	87.0	

−2.11

67.5

100.9	33.4	
241.2	45.6	−2.22
286.8	79.0	

9:05

9:01

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1936phae.proj..637B

July 1 - 1936

IV

Obs JDR.

8:06	P.A 0°			
	58.8			
	104.8	46.0		
	245.4	34.5	−2.18	
	279.9	80.5		
			−2.23	
	67.0			
	100.8	33.8		
	241.3	43.2	−2.28	
	284.5	77.0		
	P.A. = 180°			Mean = −2.26
	154.0			
	195.8	41.8	−2.30	
	335.0	34.8		
	9.8	76.6		
			−2.29	
	157.8			
	189.9	32.1	−2.27	
	329.9	45.5		
9:13	15.4	77.6		
9:09				

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1936phae.proj..637B

July 1

V
Obs. 1913.

P.A. 180°

9:16	155.1		
	193.0	37.9	
	334.9	36.9	−2.35
	11.8	74.8	
			−2.37
	157.2		
	190.8	33.6	
	331.9	40.0	−2.39
	11.9	73.6	
P.A.	0°		$m_m = -2.20$
	238.6		
	287.0	48.4	
	63.7	38.5	−2.00
	102.2	86.9	
			−2.03
	~~240.8~~ 244.1		
	~~287.0~~ 280.8	36.7	
	59.3	48.5	−2.05
9:24	107.8	85.2	
9:20			

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1936phae.proj..637B

July 1

VT

Obs. JJH.

P.A. 0°

9:29

240.1		
~~285.8~~	45.7	
65.4	36.1	−2.14
101.5	81.8	

−2.11

244.1		
~~280.9~~	36.8	
60.0	47.1	−2.08
107.1	83.9	

Mean = −2.17

P.A. 180°

325.8		
15.9	50.1	
158.4	30.7	−2.17
189.1	80.8	

−2.23

337.2		
8.4	31.2	
152.5	45.7	−2.29
198.2	76.9	

9:36

9:32

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1936phae.proj..637B

July 1 – 1936

VII

Ob. – q 2B.

P.A. 180°

9:37

331.8		
16.2	44.4	
157.0	32.5	−2.29
189.5	76.9	
336.8		−2.35
7.2	30.4	
151.2	42.8	−2.40
194.0	73.2	

P.A. 0°

Mean = −2.22

69.9		
110.9	51.0	
244.8	35.4	−2.01
280.2	86.4	
		−2.09
67.1		
100.2	33.1	−2.17
239.4	47.8	
287.2	80.9	

9:44

9:40

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1936phae.proj..637B

July 1-1936

P.A. 00

9:45 60.2

~~VIII~~ Gen. 9213.

106.8 46.6
243.7 37.5 −2.08
281.2 84.1

−2.00

65.5
102.1 36.6
237.0 53.2 −1.92
290.2 89.8

P.A. 180°

Mean = −2.18

151.4
198.5 47.1
337.8 31.1 −2.25
8.9 78.2

−2.36

157.7
189.1 31.4 −2.46
9.52 331.9 40.1
12.0 71.5

9:48

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1936phae.proj..637B

July 1

IX

Obs. JSB.

	PA. 180°		
9:54	153.6		
	192.4	38.8	
	336.3	33.3	−2.44
	9.6	72.1	
			−2.30
	156.4		
	190.6	34.2	
	328.1	46.9	−2.16
	15.0	81.1	
	PA 0°		Mean = −2.10
	236.9		
	288.6	51.7	−1.92
	63.5	38.1	
	101.6	89.8	
			−1.90
	242.5		
	281.2	38.7	−1.88
	57.5	52.4	
10:00	109.9	91.1	
9:57			

Very hazy & increasing cloudiness. Image almost disappeard in last eight settings.

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1936phae.proj..617B

July 1

P.A. 0°

10:02 237.3
289.0 51.7
62.2 40.8 −1.85
103.0 92.5

−1.90

245.4
282.2 36.8
57.3 52.3 −1.94
109.6 89.1

P.A. 180° Mean = −2.01
327.5
15.9 48.4
158.2 33.9 −2.13
192.1 82.3

−2.12

335.2
9.8 34.6
151.3 48.5 −2.10
10:09 199.8 83.1

Bad sky.

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1936phae.proj..637B

PA 180°

		I left eye		II right eye		III left eye		IV right eye	
10:15		333.0		152.3		154.5		329.2	
		8.2	35.2	195.5	43.2	192.5	38.0	14.4	45.2
		155.2	38.8	334.6		333.3		158.3	
		194.0	74.0	9.8	35.2 / 78.4	13.2	39.9 / 77.9	191.3	33.0 / 78.2
	PA 0°								
Moonlit hazy background		62.6	40.5	243.0	37.8	242.0	38.2	56.4	43.9
		103.1		280.8		280.2		100.3	
		239.5	44.7	59.8		60.0	47.8	238.2	50.7
10:30		284.2	85.2	107.2	47.4 / 85.2	107.8	86.0	288.9	94.6
10:30	PA 0°	57.6	48.9	237.5	50.1	237.9	45.7	58.9	49.3
		106.5		287.6		283.6		108.2	
		244.4	36.7	65.8	36.2	64.3	37.7	241.1	38.1
		281.1	85.6	102.0	86.3	102.0	83.4	279.2	87.4
	PA 180°								
		335.0		154.9		159.8	32.5	335.8	
		10.1	35.1	192.8	37.9	192.3		10.5	34.7
10:50		157.9	35.4	330.2	43.6	327.8		153.1	
		193.3	70.5	13.8	81.5	10.7	42.9 / 75.4	197.3	44.2 / 79.1
10:32									

Mean −2.24 { −2.38, −2.05, −2.03, −2.49 }

−2.11 { −2.24, −2.05, −2.01, −2.15 }

−2.18 { −2.26, −2.02, −2.10, −2.33 }

−2.06 { −2.25, −1.79, −1.98, −2.22 }

Scheme:

	1	3	7	5
	2	4	8	6
R. Image				
	11	9	13	15
	12	10	14	16
R. Phot.				
	17	19	23	21
	18	20	24	22
R. Image				
	27	25	29	31
	28	26	30	32

All other observations made with right eye.

Right + left eye seem systematically different.

Same with second group finite.

Carried out to see if any small observer's bias in ordinary manner. Apparently not

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1936phae.proj..627B

July 1

XV

Obs. JGB.

10:51 P.A. 180°

153.1 41.9
195.0 33.0 −2.35
335.9 74.9
8.9

−2.27

158.8 32.9
191.7
327.9 46.9 −2.20
14.8 79.8

P.A. 0°

Mean = −2.18

240.2 44.0 −2.20
284.2 35.8
65.8 79.8
101.6

−2.09

239.5 46.7
286.2 −1.98
62.8 41.0
10:58 103.8 87.7

10:55

Sky very good for last five observations but too hazy afterwards!

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1936phae.proj..637B

EST from Nova Lacertae July 6, 1936

I

Obs. JJB,
Rec. EB.

8:36 P.A. 0°

61.2 43.4
104.6 54.6
236.1 98.0
290..7

−1.71

CS same

−1.72

54.2 57.1
111.3 39.7
242.9 96.8
282.6

−1.74

P.A. 180°

Mean = −1.78

153.2 41.6
194.8 51.6
326.2 93.2
17.8

−1.83

−1.84

148.3 50.8
199.1 41.7
333.5 92.5
15.2

−1.85

8.42
8:39

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1936phae.proj..627B

II

July 6, 1936

P.A. 180°

8:49 152.4
193.4 41.0
325.2 52.3
17.5 93.3

146.0
200.8 54.8
330.2 41.3
11.5 96.1

P.A. 0°

244.9
282.5 37.6
56.4 55.9
112.3 93.5

235.2
291.6 56.4
61.0 41.4
102.4 97.8

8:55
8:52

−1.83
−1.79
−1.75
mean −1.78
−1.82
−1.77
−1.71

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1936phae.proj..637B

July 6, 1936 III

8.56	P.A. 0°		
	241.9	43.1	
	285.0		−1.56
	54.4	60.8	
	115.2	103.9	−1.60
	235.2	56.4	
	291.6	44.6	−1.63
	61.0	101.0	
	105.6		Mean −1.75
	PA 180°		
	333.9	37.4	
	11.3	52.1	−1.93
	148.9	89.5	
	201.0		−1.90
	325.2	52.6	
	17.8	39.4	−1.86
	154.0	92.0	
9.03	193.4		
8:59			

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1936phae.proj..637B

P.A. 180° July 6, 1936 IV

9:05 332.8 39.1
11.9 50.2 −1.93
148.8 89.3
199.0 −1.90

328.0
18.5 50.5 −1.87
152.9 41.2
194.1 91.7

Mean −1.78

P.A. 0°
61.3
105.6 44.3 −1.65
235.0 55.9
290.9 100.2

−1.65

55.0
112.2 57.2
241.2 43.5 −1.64
9:12 284.7 100.7

9:08

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1936phae.proj..637B

July 6, 1936 V

9:14

P.A. 0°

62.6
104.4 41.8
237.4 52.6 −1.80
290.0 94.4

58.9 −1.78
111.0 52.1
240.0 44.1 −1.75
284.1 96.2

PA 180° Mean −1.78

154.4 41.4
195.8 55.0 −1.75
325.2 96.4
20.2 −1.77

148.2 50.5
198.7 44.2 −1.79
329.4 94.7
13.6

9:24
9:19

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1936phae.proj..647B

July 6, 1936 VI

P.A. 180°

9:29

153.3
195.2 41.9
325.3 51.5 −1.82
16.8 93.4

−1.80

148.7
200.0 51.3
381.8 44.0 −1.77
15.8 95.3

mean −1.72

P.A. 0°

239.1
284.9 45.8 −1.61
55.0 56.2
111.2 102.0

−1.64

233.2
290.6 57.4 −1.66
61.3 42.3
9:36 103.6 99.7

9:32

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1936phae.proj..637B

PA - 0° July 6, 1936 VII

9:39 241.9.
284.0 42.1 -1.73
56.2 54.8
111.0 96.9

-1.71

235.4
292.0 56.6
62.1 42.1 -1.69
104.2 98.7

mean -1.7.7

PA - 180°
331.0
12.3 41.3 -1.82
148.1 52.4
200.5 93.7

-1.83

324.9
17.9 53.0 -1.84
155.0 39.6
9:46 194.6 92.6
9:47

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1936phae.proj..627B

9:49 P.A. 180° July 6, 1936 VIII

334.0		
13.3	39.3	
147.3	53.9	−1.83
201.2	193.2	
		−1.82
325.8		
20.4	54.6	−1.81
153.8	39.3	
193.1	93.9	
		mean −1.78
P.A. 0°		
62.8		
103.0	40.2	−1.73
236.0	56.8	
292.8	97.0	
		−1.73
55.4		
110.2	54.8	
241.1	42.8	−1.72
283.9	97.6	

9:57

9:53

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1936phae.proj..637B

Nova Herculis July 6–1936

P.A. 174°

I

10:14

45.8 nova disappeared

119.2 73.4

205.6 116.2 +.18

321.8 189.6

+.24

27.8

140.0 112.2

219.8 84.0 +.31

303.8 196.2

P.A. 354°

Mean = +.24

139.1

203.4 64.3

303.0 102.6 +.25

45.6 166.9

118.2 C.S. Pair. +.24

222.2 104.0

322.7 64.1 +.22

26.8 168.1

10.22

10:18

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1936phae.proj..637B

July 6, 1936. II

P.A.		
	141.6 C.S. Pin.	
10:26	203.2	61.6
	305.8	104.4
	60.2	166.0
		+.27
	125.8	
		+.31
	221.3	95.5
	319.5	66.2
	25.7	161.7
		+.35
		Mean = +.27
	226.8	
	301.2	74.4
	24.1	117.4
	141.2	191.5
		+.22
	203.5 Nova Pin.	
		+.23
	321.8	118.3
	43.7	74.9
10:34	118.6	193.2
		+.25
10:30		

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1936phae.proj..637B

Nova Lacertae July 7–1936

Obs 1931.
Ref E13.

	P.A. 0°		
9:34	61.2		
	105.3	44.1	
	231.0	63.9	−1.46
	294.9	108.0	
			−1.48
	54.3		
	116.8	62.5	−1.50
	240.8	44.1	
	284.9	106.6	
			mean −1.57
	P.A. 180°		
	153.5		
	194.3	40.8	−1.69
	325.6	57.8	
	23.4	98.6	−1.66
	143.9		
	204.5	60.6	−1.62
9:41	335.2	40.8 supplied	
9:37	—	101.4	

Stopped by heavy clouds. Last five obs. in heavy haze.

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1936phae.proj..637B

July 26, 1936 I

RY Sauri. P.A.. 285° for c.s. #1. Obs. of 7-13.
Index = 3.5 15" Tele.
Phot. T.

9:00	P.A. 285		
	233.8		
	353.8	120.0	
	78.9	67.3	+ .14
	146.2	187.3	
			+ .08
	256.0		
	327.9	71.9	
	56.6	109.4	+ .02
EST from mon.	166.0	181.3	
9:04	P.A. 105		Mean = + .13
	326.8		
	85.0	118.2	+ .22
	166.1	73.7	
	239.8	191.9	
			+ .18
	345.2		
	59.1	73.9	
	145.2	114.2	+ .15
9:10	259.4	188.1	
9:05			

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1936phae.proj..637B

JUL 26 1936

II

9:15

321.2		
86.1	124.9	
166.3	71.1	+.30
237.4	196.0	
345.1		
60.9	75.8	+.17
145.5	113.5	
259.0	189.3	
PA. B		Mean = +.10
59.1		
166.8	107.7	-.06
258.2	68.9	
327.1	176.6	
80.4		
145.0	64.6	
237.0	114.0	-.03
351.0	178.6	

9:26

9:21

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1936phae.proj..637B

JUL 26 1936

III

9:27	52.2		
	171.4	119.2	
	259.9	66.9	+.11
	326.8	186.1	
			+.07
	~~80.8~~ 78.0		
	147.4	69.4	+.03
	235.8	112.0	
	347.8	181.4	
	PN B.		Mean = +.16
	145.3		
	261.0	115.7	+.27
	343.0	78.4	
	61.4	194.1	
			+.26
	164.6		
	239.4	74.8	+.25
	323.7	118.3	
9:37	82.0	193.1	
9:32			

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1936phae.proj..637B

JUL 26 1936

IV

9:38

146.4		
259.2	112.8	
343.0	77.7	+.20
60.7	190.5	
		+.18
165.1		
238.2	73.1	
327.4	115.3	+.16.
82.7	188.4	
		Mean = +.12
237.5		
349.0	111.5	+.08
77.4	72.7	
150.1	184.2	
		+.05
260.6		
327.5	66.9	+.02
54.2	113.9	
168.1	180.8	

9:48
9:43

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1936phae.proj..637B

JUL 26 1936

V

10:04 233.9
349.8 115.9
78.2 70.0 ±.11
148.2 185.9

±.12

257.9
327.9 70.0
52.6 117.5 ±.14
170.1 187.5
R. Phx.
322.8
86.7 123.9
167.8 74.1 ±.34
241.9 198.0

±.30

344.2
63.8 79.6 ±.27
147.9 114.7
10:12 262.6 194.3
10:08

Mean = ±.21

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1936phae.proj..637B

JUL 26 1936

VI

10:13

324.1		
80.9	116.8	
166.2	73.9	±.20
240.1	190.7	
347.5		±.11
58.2	70.7	±.02
149.9	110.6	
260.5	181.3	
R Phd		Mw = ±.07
56.3		
167.4	111.1	
256.0	70.8	±.03
326.8	181.9	
79.3		±.03
148.2	68.9	
239.2	112.7	±.03
351.9	181.6	

10:21

10:17

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1936phae.proj..637B

JUL 26 1936

VII

10:22	53.5		
	172.4	118.9	
	258.2	67.9	+.13
	326.1	186.8	
			+.08
	77.0		
	149.8	72.0	
	239.0	109.9	+.03
	348.9	181.9	
	R.P.		Mean = +.19
	145.8		
	261.2	115.4	
	336.8	84.2	+.37
	61.0	199.6	
	165.9		+.30
	239.2	73.3	
	322.8	119.2	+.24
10:31	82.0	192.5	
10:27			

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1936phae.proj..637B

JUL 26 1936

VIII

10:32

142.2
263.0 120.8
340.5 82.0 +.43
62.5 202.8

+.30

166.1
237.0 70.9
324.3 117.8 +.16
82.1 188.7

RP. Mm = +.15
238.8
345.9 107.1
78.2 72.4 -.01
150.6 179.5

.00

256.9
324.8 67.9
57.9 112.3 .00
10:40 170.2 180.2

10:36

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1936phae.proj..637B

IX

JUL 26 1936

10:45	238.2		
	347.8	109.6	
	79.2	70.6	+.00
	149.8	180.2	
			+.01
	256.2		
	327.2	71.0	
	55.4	110.8	+.03
	166.2	181.8	
	R P.		Mean = +.17
	325.2		
	82.0	116.8	
	163.4	78.8	+.30
	242.2	195.6	
			+.33
	337.9		
	63.2	85.3	+.36
	147.2	113.6	
10:56	260.8	198.9	
10:50			

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1936phae.proj..637B

JUL 26 1936

X

Changed Side of Pier.

12:12	232.4		
	350.8	118.4	
	76.2	73.6	
	149.8	192.0	+.23
			+.15
	258.0		
	328.8	70.8	
	55.4	113.4	+.08
	168.8	184.2	
	RP.		Mean = +.21
	326.0		
	80.1	114.1	
	161.4	80.4	+.27
	241.8	194.5	
			+.27
	344.9		
	60.2	75.3	
	143.0	119.2	+.27
12:21	262.2	194.5	
12:16			

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1936phae.proj..627B

JUL 26 1935

XI

12:22 325.1

81.8	116.7	
166.8	72.5	+.19
239.3	189.2	

343.1 +.17

60.1	77.0	
147.9	112.5	
260.4	189.5	+.18

R.P. Mean = +.16

55.9

170.2	114.3	
254.2	74.7	+.17
328.9	189.0	

75.3. +.15

149.9	74.6	
237.9	112.2	+.13
350.1	186.8	

12:30

12:26

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1936phae.proj..637B

JUL 26 1936

XII

12:36	239.0		
	351.0	112.0	
	74.9	74.9	+.13
	149.8	186.9	
			+.08
	255.2		
	326.8	71.6	
	56.9	110.1	+.03
	167.0	181.7	
	R.P.		Mm = +.22
	326.8		
	80.8	114.0	
	162.0	84.9	+.36
	246.9	198.9	
			+.36
	340.2		
	63.0	82.8	
	144.3	115.9	+.36
12:46	260.2	198.7	
12:11			

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1936phae.proj..647B

JUL 26 1936

XIII

12:47

326.2		
82.8	116.6	
166.8	76.9	+.25
243.7	193.5	
		+.19
342.2		
60.9	78.7	
147.2	108.2	+.13
255.4	186.9	
R.P.		Mean = +.16
52.5		
166.0	113.5	
255.2	73.0	+.12
328.2	186.5	
		+.13
76.0		
154.0	78.0	
240.8	109.0	+.13
349.8	187.0	

12:56

12:51

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1936phae.proj..637B

JUL 26 1936

XIV

13:01	59.1		
	167.2	108.1	
	254.5	77.7	+.11
	332.2	185.8	
	71.0		
	148.2	77.2	
	236.4	110.7	+.15
	347.1	187.9	
	R.P.		Mean = +.23
	145.3		
	261.9	116.6	
	358.4	83.5	+.38
	61.9	200.1	
	160.2		+.34
	244.3	84.1	
	329.8	111.7	+.30
13:09	81.5	195.8	
13:07			

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1936phae.proj..627B

JUL 26 1936

XV

13:10

151.8		
263.8	112.0	+.23
342.0	80.2	
62.2	192.2	

×.26

166.1		
242.2	76.1	+.30
323.8	119.7	
83.5	195.8	

RP.

Mean = +.20

239.7		
346.3	106.6	+.09
73.8	78.4	
152.2	185.0	

×.14

254.9		
332.2	77.3	
54.8	193.4	+.20
168.2	190.7	

13:20

13:10

Power in haze near tube top.

Drifting haze thru out night. O².

Mean for night = +.17

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1936phae.proj..637B

R.V. Date: July 27, 1936. I Obs Rec. JBB

E.S.T. from Hour. 146.9
8:45
263.0 116.1 +.25
345.8 77.0
62.8 193.1

+.23

169.6
242.8 73.2
326.9 118.1 +.21
85.0 191.3
R.P.

M = +.16

236.2
352.4 116.2
79.1 73.7 +.19
152.8 189.9
?
257.8

+.09

330.2 77.4
60.2 107.6 .00
8:54 167.8 180.0

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1936phae.proj..637B

JUL 27 1936

II

8:55 240.8 D
349.3 108.5
73.1 84.1 +.24
157.2 192.6

+.24

254.8
332.4 77.6 +.23
58.0 114.4
172.4 192.0
RP. +.32
325.5
83.7 118.2
163.9 85.0 +.44
248.9 203.2

+.40

342.2
68.2 86.0
150.6 112.8 +.36
9:04 263.4 198.8

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1936phae.proj..637B

JUL 27 1936

III

9:12

322.2
86.1 123.9
165.8 77.0 +.40
242.8 200.9

.31

348.0
62.6 74.6
147.0 117.0 +.22
264.0 191.6

R.P. +.21
60.6
171.8 111 2
257.8 72.7 +.07
183.9

330.5
~~78~~ 78.6 +.12
151.0 72.4
239.1 116.7 +.17
355.8 189.1

9:21

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JUL 27 1936

IV

9:22	57.4		
	170.0	112.6	
	255.8	76.2	+.17
	332.0	188.8	
			+.20
	76.8		
	153.0	76.2	
	236.2	116.4	+.24
	352.6	192.6	
	R.P.		+.24
	151.6		
	261.8	110.2	+.18
	345.5	79.3	
	64.8	189.5	
			.22
	167.8		
	242.8	75.0	
	324.1	118.1	+.25
9:30	82.2	193.1	

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1936phae.proj..637B

JUL 27 1936

V

9:31

150.0		
264.2	114.2	
348.6	74.1	+.16
62.7	188.3	

.21

167.4		
242.2	74.8	
325.4	118.8	+.26
84.2	193.6	
R. P.		+.22
238.8		
352.8	114.0	
73.0	84.8	+.36
157.8	198.8	

.23

255.6		
329.9	74.3	+.11
58.2	111.8	
170.0	186.1	

9:39

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1936phae.proj..647B

JUL 27 1936

VI

9:41	235.9		
	353.0	117.1	
	75.8	79.4	+.31
	155.2	196.5	
			+.23
	257.8		
	328.8	71.0	
	55.2	116.8	+.15
	172.0	187.8	
	R.P.		+.25
	324.1		
	83.9	119.8	
	169.5	73.8	+.26
	243.3	193.6	
			+.27
	345.0		
	63.0	78.0	+.29
	148.2	117.0	
9.50	265.2	195.0	

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1936phae.proj..637B

JUL 27 1936

VII

9:51

323.2
83.9 120.7
166.1 77.0 +.34
243.1 197.7

.27

347.9
65.1 77.2
149.6 113.5 +.20
263.1 190.7

R.P. +.21
57.4
175.0 117.6
256.9 72.5 +.19
329.4 190.1

.15

77.2
152.2 75.0 +.12
237.3 111.4
9:59 349.2 186.4

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1936phae.proj..637B

JUL 27 1936

VIII

10:00	58.8		
	172.2	113.4	
	258.0	72.9	+.12
	330.9	186.3	
			+.14
	78.0		
	152.0	74.0	
	237.8	114.4	+.16
	352.2	188.4	
RP	147.5		
			+.22
	263.2	115.7	
	345.8	79.3	+.29
	65.1	195.0	
			+.30
	168.3		
	243.7	75.4	
	323.2	120.3	+.30
10:08	83.5	195.7	

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JUL 27 1936

IX

10:13

147.8
264.9 117.1
340.8 86.0 +.44
66.8 203.1

+.38

165.8
243.2 77.4
324.6 119.6 +.32
84.2 197.0
R.8.

+.30

236.2
349.2 113.0
76.2 79.2 +.23
155.4 192.2

+.22

252.5
331.2 78.7
56.2 113.2 +.22
10:24 168.4 191.9

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1936phae.proj..637B

JUL 27 1936

X

10:24	237.6		
	352.1	114.5	
	71.9	84.8	+.37
	156.7	199.3	
			+.24
	256.2		
	330.0	73.8	
	57.9	112.3	+.11
	170.2	186.1	
	RP.		+.26
	323.9		
	83.5	119.6	
	165.1	79.9	+.37
	245.0	199.5	
			+.28
	345.1		
	65.2	80.1	
	150.1	190.6	+.20
10:30	260.7	190.7	

Drifting large. Not a good night. 2 Hours

Mean for night = +.24

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1936phae.proj..637B

Tuesday, July 28, 1936 I

RY. Lauta.

EST from Nov.

9:11

	55.1		
	171.5	116.4	
	261.0	70.1	±.12
	331.1	186.5	
			±.13
	80.9		
	152.4	71.5	±.14
	237.6	116.2	
	353.8	187.7	
R.P.			Mean = ±.33
	145.4		
	268.3	122.9	±.55
	342.2	85.6	
	67.8	208.5	±.52
	166.4		
	244.9	78.5	±.49
	321.8	127.0	
9:20	88.8	205.5	
9:16			

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1936phae.proj . . 63 7B

JUL 28 1936

II

9:23 143.9
269.6 125.7 +.64
341.4 87.4
68.8 213.1

+.6°

167.7
243.8 76.1 +.57
316.9 133.4
90.3 209.5
R.R.

Mean = +.43

232.8
355.2 122.4
75.0 80.4 +.43
155.4 202.8

+.26

261.8
327.9 66.1
54.9 118.3 +.08
9:33 173.2 184.4
9:28

1936phae.proj..637B

JUL 28 1936

III

9:35

232.0		
354.4	122.4	
80.2	70.0	+.24
150.2	192.4	
		+.22
259.8		
328.1	68.3	+.21
53.1	123.0	
176.1	191.3	
R.P.		Mean = +.35
318.1		
88.2	130.1	
169.3	76.9	+.52
246.2	207.0	
		+.48
346.1		
64.4	78.3	+.44
144.1	124.8	
268.4	203.1	

9:43

9:39

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JUL 28 1936

IV

9:44

319.3		
87.5	128.2	
164.9	82.9	+.60
247.8	211.1	
		+.58
342.9		
65.0	82.1	+.56
142.9	127.2	
270.1	209.3	
R.P.		mean = +.42
51.0		
173.8	122.8	+.24
260.0	69.9	
329.9	192.7	
		+.26
76.5		
150.9	74.4	
234.8	120.2	+.28
355.0	194.6	

9:51

9:48

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1936phae.proj..637B

JUL 28 1936

V

9:57

51.4
177.9 126.5
257.4 75.8 +.43
333.2 202.3

+.39

76.0
152.9 76.9 +.35
233.7 121.6
355.3 198.5

R P.
141.8
266.8 125.0 +.53
344.9 82.9
67.8 207.9

Mean = +.44

+.49

164.2
241.2 77.0 +.45
320.9 126.5
87.4 203.5

10:04
10:00

1936phae.proj..637B

JUL 28 1936

VI

10:05 143.0

268.7	125.7	
344.7	79.1	+.47
63.8	204.8	

+.47

167.8		
242.1	74.3	
318.9	130.3	+.47
89.2	204.6	

R.P. Mean = .38

232.9		
356.1	123.2	+.33
75.9	74.2	
150.1	197.4	+.29

258.6		
333.0	74.4	+.26
54.0	119.4	
173.4	193.8	

10:13

10:09

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1936phae.proj..637B

JUL 28 1936

VII

10:19

~~77~~

236.3		
355.8	119.5	
75.0	80.9	+.39
155.9	200.4	
		+.25
257.2		
331.0	73.8	
58.6	112.3	+.11
170.9	186.1	
R.P.		Mean = +.34
322.1		
87.2	125.1	
164.8	79.4	+.47
244.2	204.5	
		+.43
343.8		
63.9	80.1	
144.4	119.6	+.38
264.0	199.7	

10:26

10:22

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1936phae.proj..647B

JUL 28 1936

VIII

10:27

	323.3		
	89.7	126.4	
	168.8	76.0	+.43
	244.8	202.4	
			+.41
	345.0		
	61.5	76.5	
	143.8	123.5	+.38
	267.3	200.0	
	R.P.		
	52.7		Mean = +.40
	175.3	122.6	
	254.2	79.8	+.43
	334.0	202.4	
			+.39
	78.6		
	156.8	78.2	
	233.9	121.1	+.37
10:34	355.0	199.3	

10:30

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1936phae.proj..637B

62

JUL 28 1936

10:36

54.~		
175.2	121.0	
255.~	75.6	±.32
330.8	196.6	

±.29

77.4		
152.9	75.5	±.26
235.0	118.1	
353.1	193.6	

R.P. 142.8

Mean = ±.39

266.4	123.6	±.48
342.8	81.5	
64.3	205.1	

±.48

164.~		
244.6	80.4	
323.0	124.7	±.48
87.7	205.1	

10:44

10:40

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1936phae.proj..637B

JUL 28 1936

X

10:45 140.8
267.1 126.3
343.4 82.5 +.55
65.9 208.8

+.55

162.1
247.0 84.9 +.55
322.1 123.9
86.0 208.8

R.P. Mean = +.43

236.2
353.4 117.2
76.4 79.6 +.32
156.0 196.8

+.31

254.2
335.0 80.8 +.30
56.2 114.9
10:54 171.1 195.7

10.49

Hazy sky with nearly full moon
Not very good. Sky background bright

Mean for night = +.39

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1936phae.proj..637B

Probable error to date .027 for one observation.

Thurs. July 30, 1936.

EST from Mar. R.A. Y. Leonis

8:40	60.0			
	175.8	Sky terrible	115.8	
	255.2		89.0	+.47
	344.2		204.8	
				+.43
	79.3			
	161.5		82.2	+.39
	238.4		118.5	
	356.9		200.7	
				+.48
	149.8			
	271.2	Sky terrible	121.4	
	~~342.5~~ 346.9		~~98.3~~ 83.9	+.48
	~~70.8~~		~~249.7~~ 205.3	
				+.53
	169.4			
	253.5		84.1	
	326.4		126.8	+.59
8:49	93.2		210.9	

Heavy drifting haze. Images faint & almost lyne.

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1936phae.proj..637B

JUL 30 1936

II

8:53

152.8			
268.8	116.0		
347.4	88.8	+.47	
76.2	204.8		.56

171.3			
257.4	86.1	+.65	
325.6	127.6		
93.2	213.7		

Mean = +.40

239.6			
357.8	118.2	+.44	
77.8	84.8		
162.6	203.0		.25

265.0			
335.5	70.5		
62.5	133.0	+.06	
175.5	83.5		

9:02

The sky continues bad. The image continually diffuse.

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1936phae.proj..637B

JUL 30 1936

III

9:07

240.2
359.5 (79.3
76.8 84.0 +.44
160.8 203.3

.33

260.9
335.2 (Proffed to 200 mag). 74.3
~~64.0~~ 58.5 1178 +.23
176.3 192.1

R P.

Mean = .49

327.8
~~90.8~~ ~~86.5~~ 92.0 1242
~~345~~ 164.2 885 +.63
252.7 2127

.65

345.9
~~80.6~~ 83.3 974
154.6 1173 +.67
9:25 271.9 247.1

Terrible!

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1936phae.proj..627B

JUL 30 1936

IV

9:36	325.8		
	95.1	129.3	
	161.8	98.4	+.93
	260.2	227.7	
			.80
	343.3		
	72.1	88.8	+.68
	148.4	126.4	
	274.8	215.2	
			+.49
	60.9		
	175.2	114.3	+.18
	260.8	75.2	
	336.0	189.5	
			.18
	79.8		
	158.8	79.0	+.17
	244.6	109.8	
9:44	354.4	188.8	

Stay slightly better (.2 on worse).

Surprising agreement despite the singles.

~~First four given 1/2 to~~

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1936phae.proj..637B

JUL 30 1936

V

12:05

61.2		
178.2	117.0	
261.2	76.3	+.25
337.5	193.3	
		+.23
83.1		
156.9	73.8	
242.2	117.2	+.21
359.4	191.0	
R.P.		Mean = +.38
148.2		
271.8	123.6	
345.8	85.1	+.55
70.9	208.7	
		+.53
167.0		
252.2	85.2	
331.3	121.6	+.51
92.9	206.8	

12:19

Sky still hazy but clear. Moon full. Moon about 8° away.

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1936phae.proj...677B

JUL 30 1936

VI

12;13	151.2		
	268.8	117.6	
	346.8	87.3	+.48
	74.1	204.9	
			+.56
	168.8		
	257.8	89.0	+.65
	327.2	124.6	
	91.8	213.6	
			Mean = +.41
	242.8		+.30
	358.6	116.6	
	79.9	79.3	
	159.2	195.9	
			+.26
	262.6		
	337.3	74.7	
	61.5	116.7	+.22
12;21	178.2	191.4	

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1936phae.proj..637B

JUL 30 1936

VII

12:22

244.2

357.0 112.8
80.5 82.3 +.29
162.8 195.1

259.8 .29
339.8 80.0
60.2 115.9
176.1 195.9 +.30
R 8. Mm = +.43
329.4
92.0 122.6
166.6 85.9 +.55
252.5 208.5

.57

345.0
72.8 87.8
151.3 122.5 1.58
12:29 273.8 210.3

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1936phae.proj..637B

JUL 30 1936

VIII

12:32

327.0		
89.2	122.2	
165.9	92.2	+.66
258.1	214.4	

.59

346.2		
75.2	89.0	
150.3	117.5	+.51
267.8	206.5	

R.P.

Mean = +.42

58.0		
176.9	118.9	
262.8	75.0	+.26
337.8	193.9	

.25

82.2		
161.1	78.9	
242.0	113.2	+.23
355.2	192.1	

12:40

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1936phae.proj..637B

JUL 30 1936

TX

12:41

58.7
180.8 122.1
262.8 72.8 +.28
335.6 194.9 .28

78.8
163.0 84.2
245.0 111.0 +.29
356.0 195.2

R Pub. +.42
149.3
267.0 117.7
347.4 87.6 +.48
75.0 205.3 .56

167.1
261.2 94.1 +.64
331.0 119.4
12:48 90.4 213.5

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1936phae.proj..637B

JUL 30 1936

X

12:49

	150.9		
	273.2	122.3	+.54
	347.9	85.7	
	73.6	208.0	
			.58
	166.2		
	258.8	92.6	+.60
	330.0	118.8	
	88.8	211.4	
	R.P.		+.47
	239.2		
	356.3	117.1	
	78.4	85.2	+.43
	163.6	202.3	
			.36
	261.1		
	339.8	78.7	
	62.0	117.1	+.30
12:57	179.1	195.8	

Mean for the night = +.44 ± .025/√10

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1936phae.proj..637B

Fri, July 31, 1936.

Ry. Scuti — I — Obs. Rec. JJB.

EST from noon.

8:38	313.8		
	65.8	112.0	
	153.4	69.1	+.02
	222.5	181.1	
			.00
	335.8		
	38.8	63.0	−.02
	128.0	115.9	
	243.9	178.9	
			Mean = +.13
	34.8		
	157.5	122.7	
	242.8	70.7	+.25
	313.5	193.4	
	58.9		+.27
	137.4	78.5	
	220.0	116.1	+.28
8:46	336.1	194.6	

Near full Moonlight 12° away. Shines in slit.

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1936phae.proj..627B

JUL 31 1936

II

8:47	34.0		
	160.1	126.1	
	239.8	74.4	+.39
	314.2	200.5	
	58.8		+.31
	131.3	72.5	
	217.8	120.0	+.24
	337.8	192.5	
			Mean = +.18
	132.1		
	243.8	111.7	
	331.2	69.9	+.03
	41.1	181.6	
	153.8		+.05
	222.0	68.2	
	308.3	115.9	+.08
8:54	64.2	184.1	

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1936phae.proj..637B

JUL 31 1936

TII

8:56

122.8			
247.8	125.0		
333.2	66.7	+.22	
39.9	191.7		
			+.16
~~52.2~~	146.4		
222.8	76.4		
312.9	109.7	+.11	
62.6	186.1		
		Mean =	+.20
218.1			
335.2	117.1		
60.1	74.3	+.22	
134.4	191.4		
			+.24
239.6			
313.3	73.7		
37.2	120.7	+.27	
157.9	194.4		

9:03

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1936phae.proj..627B

JUL 31 1936

IV

9;04 215.8

338.9	123.1	
60.8	74.4	+.33
135.2	197.5	
		+.30
242.0		
314.9	72.9	
37.0	120.8	+.26
157.8	193.7	
		Mean = +.18
310.8		
64.1	113.3	
148.8	76.2	+.18
225.0	189.5	
		+.06
332.4		
41.0	68.6	
132.9	108.9	−.05
9;10 245.8	177.5	

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1936phae.proj..637B

JUL 31 1936

V

9:12	309.1		
	65.8	116.7	
	152.8	72.4	+.17
	225.2	189.1	
			+.05
	335.1		
	40.4	65.3	
	131.5	111.7	−.06
	243.2	177.0	
			Mean = +.22
	34.4		
	158.0	123.6	
	238.8	79.1	+.43
	317.9	202.7	
			+.39
	57.2		
	140.2	83.0	
	219.1	114.9	+.34
9:20	334.0	197.9	

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1936phae.proj..627B

JUL 31 1936

VI

9:21	34.0		
	160.3	126.3	
	239.1	73.9	+.38
	313.0	200.2	
	57.2		+.33
	137.2	80.0	
	219.8	114.7	+.28
	334.5	194.7	
			Mean = +.20
	130.6		
	243.0	112.4	
	331.9	69.0	+.03
	40.9	181.4	
			+.07
	152.8		
	225.1	72.3	+.11
	310.8	113.6	
9:27	64.4	185.9	

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1936phae.proj..6378

JUL 31 1936

VII

9:30	127.8		
	242.8	115.0	
	331.2	72.5	+.14
	43.7	187.5	
	151.2		+.09
	227.0	75.8	
	314.9	187.1	+.05
	62.0	182.9	
			Mean = +.22
	220.0		
	336.4	116.4	
	56.6	82.5	+.36
	139.1	198.9	
	240.5		+.35
	317.1	76.6	
	35.9	121.3	+.34
9:36	152.2	197.9	

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1936phae.proj..627B

JUL 31 1936

VIII

9:40

	219.0		
	335.8	116.8	
	58.7	81.4	+.35
	140.1	198.2	
			+.37
	237.8		
	317.8	80.0	
	37.4	120.6	+.39
	158.0	200.6	
			Mean = +.20
	309.5		
	62.8	113.3	
	149.5	73.0	+.12
	222.5	186.3	
	330.2		+.02
	41.1	70.9	
	135.1	105.3	-.07
9:47	240.4	176.2	

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1936phae.proj..637B

JUL 31 1936

IX

9:49

314.0		
62.2	108.2	
151.8	74.0	+.04
225.8	182.2	
		+.04
332.1		
37.8	65.7	
129.2	116.4	+.04
245.6	182.1	
		Mean = +.17
35.3		
158.2	122.9	
241.7	72.5	+.29
314.2	195.4	
		+.30
59.4		
134.6	75.2	
216.2	121.0	+.31
337.2	196.2	

9:56

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1936phae.proj...627B

JUL 31 1936

X

9:57	33.2		
	158.2	125.0	
	242.1	72.1	+.32
	314.2	197.1	
	57.4		+.29
	134.8	77.4	
	218.6	115.8	+.25
	334.4	193.2	
			Mean = +.17
	126.4		
	244.0	117.6	
	330.8	71.6	+.17
	42.4	189.2	
			+.05
	153.2		
	220.9	67.7	
	315.8	108.1	−.08
10:04	63.9	175.8	

Mean for night = $+.19 \pm \frac{.024}{\sqrt{10}}$

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1936phae.proj..637B

July 31, 1936.

EST from noon. Nova Lacertae. 15" Obs. Ruth Gyllenberg.

10:23 212.8 C5. dir. Phot T. C5 1.

339.2	126.4		
60.4	74.7		
135.1	201.1	−.40	
			−.37
242.8			
315.1	72.3		
34.4	125.6	−.34	
160.0	197.9		
			Mean = −.29
309.9			
64.9	115.0		
151.6	74.8	−.19	
226.4	189.8		
			−.21
327.8			
43.8	76.0		
127.0	116.8	−.24	
243.8	192.8		

10:31

10:27

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1936phae.proj..637B

JUL 31 1936

II

10:32

312.2			
65.6	113.4		
151.7	75.1	−.16	
226.8	188.5		
			−.14
329.7			
43.0	73.3		
130.0	112.7	−.11	
242.7	186.0		
			Mean = −.24
35.9			
158.9	123.0		
237.3	79.5	−.43	
316.8	202.5		
			−.34
56.2	4 sets		
137.4	81.2		
224.3	112.7	−.26	
334.0	193.9		

10:39
10:35

Mean = −.26

7.46 − .26 = 7.20

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1936phae.proj..637B

Sat. Aug. 8, 1936 Worked 9303
RY Cauti. I

EST from above

10:16

300.3			
56.9	116.6		
136.3	84.4	+~~.40~~ +.40	
220.7	201.0		
			+.29
320.8			
37.9	77.1		
123.3	112.3	+.18	
235.6	189.4		
			+.34
28.8			
147.8	119.0		
230.3	77.8	+.32	
308.1	196.8		
			+.39
46.1			
130.3	84.2		
210.1	119.9	+.46	
330.0	204.1		

10:25

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1936phae.proj..627B

AUG 8 - 1936

II

10:26	27.2		
	149.3	122.1	
	230.1	77.6	+.38
	307.7	199.7	
			+.35
	48.7		
	130.1	81.4	+.33
	211.9	116.2	
	328.1	197.6	
			Mean = +.33
	118.6		
	236.8	118.2	
	320.8	75.1	+.25
	35.9	193.3	
			+.31
	139.8		
	221.2	81.4	
	300.1	117.3	+.36
10:33	57.4	198.7	

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1936phae.proj..637B

AUG 8 - 1936

III

10:34

	123.2		
	237.2	114.0	
	316.4	82.4	+.31
	38.8	196.4	
			+.25
	138.1		
	216.4	78.3	
	302.1	112.1	+.20
	54.2	190.4	
			Mean = +.33
	211.2		
	328.2	117.0	
	46.8	83.0	+.38
	129.8	200.0	
			+.41
	229.4		
	310.8	81.4	
	29.7	121.7	+.44
10:42	151.4	203.1	

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1936phae..proj...627B

AUG 8 - 1936

IV

10:43	213.2		
	328.0	114.8	
	45.0	86.4	+.40
	131.4	201.2	
			+.36
	228.6		
	309.7	81.1	
	32.0	116.0	+.32
	148.0	197.1	
			Mean = +.33
	303.1		
	52.4	109.3	+.30
	135.4	86.4	
	221.8	195.7	
			+.30
	315.6		
	38.0	82.4	+.30
	122.2	113.5	
10:52	235.7	195.9	

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1936phae.proj..637B

AUG 8 - 1936

V

10:54	300.2		
	55.8	115.6	
	136.9	81.7	+.33
	218.6	197.3	
	316.1		+.35
	39.5	83.4	
	121.9	115.3	+.36
	237.2	198.7	
			Mean = +.40
	28.8		
	151.4	122.6	+.46
	226.1	81.3	
	307.4	203.9	
			+.45
	43.0		
	131.0	88.0	+.44
	212.2	115.3	
11:02	327.5	203.3	

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1936phae.proj...637B

AUG 8 – 1936

VI

11:03	31.2		
	150.9	119.7	
	223.4	89.4	+.56
	312.8	209.1	
	45.8		+.48
	130.0	84.2	
	209.8	117.2	+.41
	327.0	201.4	
			Mean = +.39
	117.2		
	234.2	117.0	
	319.1	78.3	+.29
	37.4	195.3	
			+.30
	134.4		
	217.8	83.4	
	303.3	113.1	+.31
11:11	56.4	196.5	

Mean for the night = $+.35 \pm \frac{.02}{\sqrt{6}}$?

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1936phae.proj..637B

RY Scuti Aug 9

8:

8:07 118.8 120.1
238.9 84.4 +.47
315.4 204.5
39.8

+.42

140.0
219.8 79.8
295.9 120.2 +.38
56.1 200.0

Reversed plants Mean = +.51

208.8 122.5
331.3 95.0 +.72
41.8 217.5
136.8

+.60

231.0 81.2
312.2 124.5 +.49
27.9 205.7
152.4

8:13

8:10

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1936phae.proj..627B

II

AUG 9- 1936

8:14

205.0	126.8	
331.8	87.0	+.65
44.9	213.8	
131.9		

+.63

225.5		
312.9	87.4	
26.7	124.5	+.61
151.2	211.9	

Reversed photometer

Mean = +.58

296.8		
09.7	122.9	
137.8	84.3	+.52
222.1	207.2	

+.53

316.1		
40.8	84.7	
117.8	123.0	+.53
240.8	207.7	

8:20

8:17

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1936phae.proj..627B

III

AUG 9- 1936

8:25

12.0
129.1 117.1
215°.0 80.6
295.6 197.7 ± .34

32.0 ± .38
113.2 81.2
191.9 121.0 ± .42
312.9 202.2

Reversed Photometer Mean = ± .61
95.0
226.2 131.2
296.6 92.8 ± .86
29.4 224.0

± .84
113.5 96.7
210.2 125.6 ± .82
278.9 222.3
44.5

8:32

8:29

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1936phae.proj...677B

AUG 9- 1936

IV

8:33

326.0	114.1	
280.1	92.5	
22.8	~~196.6~~	
115.3	206.6	+.51
210.2	89.7	+.50
299.9	115.6	
341.9	205.3	+.48
97.5		
		Mean = +.53
189.5		
312.9	123.4	
28.0	86.4	+.57
114.4	209.8	
		+.56
207.2		
295.3	88.1	
12.5	120.3	+.54
132.8	208.4	

8:39

8:36

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1936phae.proj..637B

AUG 9 - 1936

8:46

191.3

311.7 120.4

28.6 86.3 +.51

114.9 206.7

+.50

209.8

295.8 86.0

10.9 120.1 +.50

131.0 206.1

Mean = +.58

280.5

46.4 125.9

115.0 90.1 +.69

205.1 216.0

+.66

301.1

24.6 83.5

96.1 129.8 +.64

225.9 213.3

8:51

8:49

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1936phae.proj..637B

AUG 9- 1936

8:52

~~281.7~~		
45.8	124.1	
117.0	89.4	+.64
206.4	213.5	

~~299.1~~		+.63
24.1	85.0	
97.3	127.9	+.63
225.2	212.9	

Mean = +.66

8.3		
134.0	125.7	
~~209.4~~	85.8	+.60
295.2	211.5	

+.69

31.1		
~~180.9~~	79.8	
187.1	129.9	+.77
317.0	219.7	

8:58

8:55

Mean = +.58 ± .03

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1936phae.proj..637B

AUG 9- 1936

Nova ~~Herculis~~ Lacertae. Aug 9-1936

9:22

101.0		
224.1	C.S. dis	
	123.1	
310.2	60.4	−.06
10.6	183.5	

127.8		−.03
195.0	67.2	
256.0	122.2	
38.2	179.4	+.01

Mean = +.12

~~200.1~~		
305.4	105.3	
39.8	60.3	
100.1	165.6	+.27

221.0	C.S. Dim	+.27
~~284.2~~	63.2	
21.2	103.2	
124.4	166.4	+.26

9:27

9:25

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1936phae.proj..637B

II

AUG 9- 1936

9:29

126.7
Nova dis.
198.4 71.7
282.8 182.2 +.07
35.0 183.9

+.15

102.0
221.2 119.2
305.6 73.2 +.24
18.8 192.4

Mean = +.10

218.5
285.8 67.3
16.2 108.5
124.7 175.8 −.08

+.04

194.8
310.8 116.0
34.2 93.3 +.17
9:34 107.5 189.3

9:32

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1936phae.proj..637B

1817

18 5

RY Leiti Aug 17, 1936 10 5 in

I

8:45

17.1
126.0 108.9
213.6 +.06
292.0 78.4
187.3

+.15

31.9
109.9 78.0
192.9 185.3 +.25
308.2 193.3

Mean = +.27

104.8
221.3 116.5
298.7 85.4 +.42
24.1 201.9

+.39

120.4
203.4 83.0 +.35
283.1 115.2
38.3 198.2

8:51
8:48

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1936phae.proj..637B

AUG 17 1936

8:52

107.9		
216.0	108.1	
297.9	88.2	+.29
25.1	196.3	
		+.34
118.2		
204.7	86.5	+.38
282.8	113.3	
36.1	199.8	
		Mean = +.31
197.2		
305.8	108.6	
31.2	84.7	+.25
115.9	193.3	
		+.28
209.9		
293.8	83.9	+.32
13.1	112.9	
125.0	196.8	

8:58

8:55 Clouds

Mean for night = +.29

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1936phae.proj..637B

9:00 197.4

17.8	80.4
116.8	90.0
206-8	170.4

291.1

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1936phae.proj..627B

Aug. 20, 1936
RY Scuti

9:51

189.9			
312.5	122.6		
26.8	90.7	+.64	
117.5	213.3		
			+.63
209.3			
294.9	85.6		
7.1	126.4	+.61	
133.5	212.0		
			mean = +.62
277.9			
42.6	124.7		
116.2	88.9	+.65	
205.1	213.6		
			+.60
296.3			
23.9	87.6		
98.6	121.7	+.56	
9:57 220.3	209.3		

Hazy

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1936phae.proj..637B

Monday - Aug. 24, 1936

I

EST from Noon

11:08	189.9		
	307.2	117.3	
	35.9	74.1	+.22
	110.0	191.4	
			+.15
	214.8		
	287.8	73.0	
	16.8	111.4	+.08
	128.2	184.4	
			Mean = +.19
	285.2		
	39.0	113.8	
	121.2	79.6	+.25
	200.8	193.4	
			+.23
	304.8		
	21.7	76.9	
	103.7	114.1	+.21
11:15	217.8	191.0	

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1936phae.proj..627B

AUG 24 1936

II

11:16 284.8
38.7 113.9
120.1 78.1 +.23
198.2 192.0

304.4 +.21
19.1 74.7
102.7 114.7 +.18
217.4 189.4

Mean = +.18

17.8
129.8 112.0
214.8 79.3 +.21
294.1 191.3

+.15

35.7
110.0 74.3
195.8 110.4 +.09
14:23 306.2 184.7

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1936phae.proj..637B

Aug 30, 1936 James G. Baker

9:50

217.8		
323.2	105.4	
~~105.4~~	79.3	+.09
55.7	184.7	
135.0		
		+.12
232.4		
309.9	77.5	
36.7	109.8	+.14
146.5	187.3	
		Mean = +.16
300.3	120.5	
60.8	~~300.5~~	
146.1	720	+.24
218.1	192.6	
		+.20
320.8		
39.4	98.6	
124.9	110.0	+.16
234.9	188.6	

9:57

63
4

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1936phae.proj..627B

AUG 30 1936

9:59

304.9		
57.0	112.1	
145.0	74.3	+.12
219.3	186.4	

+.13

321.1		
39.9	78.8	
125.2	109.0	+.15
234.2	187.8	

mean = +.17

30.9		
153.5	122.6	
233.2	70.9	+.25
304.1	193.5	

+.21

53.5		
128.7	75.2	
213.6	114.4	+.18
328.0	189.6	

10:05

70
4

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1936phae.proj..637B

Aug 31, 1936 James H. Baker

9:50

	29.3		
	152.4	123.1	
	228.2	85.1	.54
	313.3	208.2	
		~~1.8~~	

+58

	45.0		
	131.9	86.9	
	208.2	124.7	.61
	332.9	211.6	

+62 mean

	120.7		
	240.1	119.4	
	317.2	89.6	.56
	46.8	209.0	

+66

	136.0		
	228.1	92.1	
	296.7	127.3	.76
	640	219.4	

1406

9:55

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1936phae.proj..677B

Aug 31, 1936

10:00	119.9		
	245.1	125.2	
		96.4	+.81
	315.8	221.6	
	52.2	138.4	+.75
	138.3		
	225.0	86.7	
	296.4	128.5	+.68
	64.9	215.2	
		144.8	
			+.63
	208.0		mean
	333.2	125.2	
	57.8	82.2	+.52
	134.0	207.4	
		1526	.50
	232.4		
	314.0	81.6	
	31.2	123.3	+.48
10:08	154.5	204.9	
		1551	

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1936phae.proj..637B

O'Kufe } 66 Rec

Oct. 2, 1936

R A. $0^h 41^m$ — π Andromedae. Comp star

Dec. +33° — Stlling 3.0 65° Phot. T. Seeing good.

I

230 E. S. ~~33.2~~

193.2
212.8
13.6
33.2

192.3
211.9
14.9
33.3

P.A. 245°

287.2
301.8
105.0
118.1

287.1
300.1
105.8
119.0

2: ~~45~~ 52

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1936phae.proj..627B

Oct. 2, 1936 II

~~3.05 E.S.T.~~ P.A. 245

3'05 E.S.T. 285.5
304.6
104.0
119.0

287.8
302.0
105.0
119.4
P.A. 65

13.3
34.9
191.9
209.8

14.9
33.4
196.0
3:32 212.7

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1936phae.proj..6378

~~Sept~~ Oct. 2, 1936 III

3:36 15.5 P. A. 65°
34.8
191.1
212.9

15.2
34.7
192.2
211.8
P. A. 245°
104.8
118.9
286.8
301.0

104.9
121.0
3:52 286.0
300.1

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1936phae.proj..0378

~~Oct. E.~~ Oct 2, 1936 JK

P. A. 245°

3:54 105.8
120.8
286.1
299.8

166.2
122.1
284.1
300.0

P. A. 65°

194.0
214.1
13.1
31.8

193.2
214.0
~~12 6~~ 13.8
4:09 33.3

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1936phae.proj. .6378

var. comes up to ~~left~~ rt.

Mon. Nov. 28, 1936 I

15" Eq Phot T E Jones

U Cap 005-381

Chron 11^s slow at 7:31

80222 ~~+6.3 var dis~~

802 40 assumed 110.3 ~~var comp~~ * dis

196.0 ∠ 85.7

290.9 85.2

16.1 170.9 0.17

112.4

194.7 ∠ 82.3 0.16

290.3 89.0

19.3 171.3 0.16

Rev

282.6 Mean − 0.27

24.6 ∠ (1020) 78.0

105.0 83.7

204.0 161.7 0.35

287.7

22.6 0.38

103.9 ∠ 81.3

205.4 vardis 76.9

80900 282.3 158.2 0.42

8 05 50

Dr Eq + 3.6

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1936phae.proj..0378

Nov 23, 1936

II

EJ

81400 209.3 var dis

287.3 < 780
23.2 853
108.5 163.3 0.32

2014 0.24
1890 < 876
241 842
1083 171.8 0.16
Rev

~~23.9~~
112.8 Mean − 0.12
196.7 < 839
285.0 999
249 183.8 − 0.07

1117
2028 < 911 000
1893 851
82012 14.4 176.2 0.07

8 17 06

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1936phae.proj. .6378

Signs change Nov 23, 1936

III

EJ

8 21 15

1106 comp * dis

1917 811

2932 902

23.4 1713 0.16

1112 0.18

1976 864

2922 835

157 1699 0.19

Mean +0.19

Rev

133

1112 979

2037 812

2849 1791 0.02

0.20

758

836

302 1594 0.39

1060 Rt * dis

2042 Clouds

42720 2878

8 24 18

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1936phae.proj..6278

clouds bad

Nov 23, 1936 IV

EJ

8305.7	30.0	Rt star dis = comp ~~x~~	
	97.9	679	
	2052	791	
	2843	1470	0.63
	22.6		0.47
	1061	835	
	2060	797	
	2857	1632	0.32
	Rev		
	2871		Means +0.28
	128	857	
	1110	837	
	1947	1694	0.20
	2859		0.10
	187	928	
	1108	879	
8365.3	1987	1807	−0.01

8 33 56

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1936phae.proj...6378

Nov 23, 1936 V

83806 288.9 comp* dis 2g

20.9 < 920

112.0 912

203.2 1832 −0.06

2884 0.04

142 < 858

112.9 862

199.1 1720 0.15'

Rem

215-3 Mean +0.41

2809 < 656

308 716

102.4 1372 0.83

211.0 0.78

276.7 < 657

29.0 768

84424 105.8 1425' 0.72

8 41 15'

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1936phae.proj - 6278

Nov 23, 1936 VI

EJ

845 00	202.1			
	283.9	818		
	28.7	733		
	1020	1551	0.48	
	2093			0.57
	2792	699		
	25.3	757		
	1010	1456	0.66	
	Rev			
	1133			Mean +0.41
	1933	800		
	2929	870		
	199	1670	0.25	
	1127			0.25
	1987	860		
	2931	810		
850 20	141	1670	0.25	
847 40				

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1936phae.proj..6378

Nov 23, 1936 VII

Eq

85620

1916

123.0

85730

2961 comp* dis

17.7 816

1190 748

1938 1564 0.45'

2915'

142 827 0.39

1150 798

1948 1625 0.33

Rev

Mean +0.65

26.7

1056 789

2135' 632

2767 1421 0.73

370 ?

979 609 0.91

2164 639

280.3 1248 1.09

90430

Clouds again

90100

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1936phae.proj..6278

Nov 23, 1936 VIII

EJ

90615

293			
1011 <	718		
2171	602		
2773	1320	0.94	
353		0.92	
973 <	620		
2123	716		
~~2~~+2839	1336	0.90	

Rev

2951	819		Mean +0.70
170 <	800		
1170 ?	clouds 1619	034	
1970 ?			
2984		0.48	
106 ?	722		
1160 <	750		
1910 ?	1472	063	

Clouds bad

91210

9 09 13

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1936phae.proj..6378

Chronometer 11 sec. fast at 8:06 PM Tuesday Dec. 15, 1936
12 " " " 12:02 AM U Cep 005381 ET - obs
15" E Eq.

8 49 14 306.3 comp * dia I
374.3 680
124.8 685
193.3 1365' 0.84

3034 0.74
3820 too far 786
1278 679
195.7 1465' 0.64
Rev

221.8 Mean -1.41
272.8 510
57.7 346
92.3 856 2.03

232.7
272.1 394 209
518 421
93.9 815' 2.15'

455535'

8 52 24

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1936phae.proj..6278

85747 216.9 Dec 15, 1936

2748 579 EJ II

460 564

1024 1143 132

2227

2792 565 136

433 538

971 1103 141

Rev

1360

1876 516 Mean -1.38

3099 594

3693 1110 139

1318

1879 561 139

3133 548

90310 3681 1109 140

90029

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1936phae.proj..637B

90405'

1348
1851 ⌐ 503
3113 595'
340.8 1098 142

Dec 15, 1936 III
EJ

130.7
1916 ⌐ 609 138
3153 524'
3677 1133 134
Rev

396
1008 ⌐ 612
2233 583'
2816 1195' 120

Mean − 1.36

473
1042 ⌐ 569 134
2226 503'
2729 1072 148

90905'

90635'

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1936phae.proj...637B

91830 43.1 Dec 15, 1936 IV

9502 5'21 Eg

2239 5'40

2779 1061 151

447 158

988 5'41

2246 464

2710 1005 164

Rev

3104

3650 5'46 Mean - 1.56

1379 510

1889 1056 152

3126

3676 5'50 153

1383 494

92420 1877 1044 155

92125

1936phae.proj..637B

925-25'

Dec 15, 1936 V

3072			
3643	571		
1361	541		
1902	1112	139	
3110		144	
3710	600		
1379	470		
1849	1070	149	
Rev			
2202			
2733	531		Mean - 1.59
461	512		
973	1043	155'	
2277			
2729	452	174	
510	443		
953	895	193	

93019

9 27 52

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1936phae.proj..637B

93057 2213 Dec 15, 1936 VI

2795 5'82 Eq
433 5'51
984 1133 134

2258 150
2739 481
422 518
940 999 166

Rev

1400
1820 420 Mean - 1,56
3097 5'86
3683 1006 164

1329
1870 541 162
3169 483
93609 3652 1024 160

9 33 33

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1936phae.proj..637B

93715'

1316 Dec 15, 1936 VII

1869 ← 553 2g

3073 635'

3708 1188 122

1317

1910 ← 593 138

3169 451

3620 1044 155'

Rev

410 Mean - 1.44

998 ← 588

2259 486

2745' 1074 148

450 151

997 ← 547

2246 501

94205' 2747 1048 154

93940

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1936phae.proj..637B

94250 418 Dec 15, 1936 VIII

989 5'71 Eg
2206 5'51
2757 1122 137

418
973 5'55 147
2238 486
2724 1041 156
Rev

3132 Mean — 151
3661 529
1380 501
1881 1030 158

3124
3659 535 155
1374 519
1893 1054 153

94805
94528

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1936phae.proj..637B

94900

310.4 Dec 15, 1936 IX

3659 ← 55 5 Eg

1325 56 5

1890 112 0 137

3097 138

3671 574

1363 ← 537

1900 111 1 139

Rev

2197

2750 553

445 ← 502

947 105 5 152

2252

2724 ← 472 153

423 576

999 1048 154

95412

95136

Mean − 1.45

1936phae.proj..637B

9 54 47 2200 Dec 15, 1936 X

2760 5'60 Eq

4 50 5'00

9 50 1060 151

2281

2723 442 158

402 5'60

962 1002 165

Rev

1350

1856 5'06 Mean - 1.62

3157 5'20

3677 1026 159

1376

1859 483 167

3150 485

9 59 50 3635 968 174

9 57 18

1936phae.proj..637B

101810

1217
1891 < 674
3139 518
3657 1192 121

Dec 15, 1936
Eg
XI

1320 140
1854 < 534
3162 494
3656 1028 159

Rev

418 mean — 1.48
1007 < 589
2253 524
2777 1113 139

483 155'
1010 < 527
2270 457
2727 984 170

102308

10 20 39

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1936phae.proj..637B

1024 27 376 Dec 15, 1936 XII

971 < 595 Eg

2313 441

2754 1036 157

479 165

950 < 471

2235 498

2733 969 173

Rev

3117

3668 < 551

1362 521 Mean – 1.54

1883 1072 148

3133

3671 < 538 142

1319 581

1029 24 1900 1119 137

10 26 55

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1936phae.proj..6378

10 29 55

3130 — Dec 15, 1936 — XIII

3673 < 543 — 29

1309 < 577

1886 — 1120 — 137

3128

3700 < 572 — 134

1322 < 578

1900 — 1150 — 130

Rev

2198 — Mean - 1.45

2727 < 529

431 < 539

970 — 1068 — 149

2261 — 156

2740 < 479

434 < 531

965 — 1010 — 163

10 34 35

10 32 15

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1936phae.proj..6378

10 36 45' 2149 Dec 15, 1936 XIV

2751 602 EJ

492 472

964 1074 148

2309 156

2771 462

425' 543

968 1005' 164

Rev

1323

1904 581 Mean - 152

3137 564

3701 1145' 131

1366

1861 495 147

3140 516

10 41 53 3656 1011 163

10 39 19

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1936phae.proj..637B

10 42 35'

1308
1865 ⌐ 557
3160 529
3689 1086 145'

1308 142
1897 ⌐ 589
3154 526
3680 1115' 138

1310
1859 ⌐ Rev

Mean 144

400
1042 ⌐ 642
2269 481
2750 1123 136

431 146
950 ⌐ 519
2261 524
2785' 1043 155'

Dec 15, 1936 XV
EG

10 48 15'

10 45 25'

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1936phae.proj...627B

10 48 50

447

Dec 15, 1936 ~~XVI~~

Σ J

950	503		
2231	489		
2720	992	168	

382			
952	570		15-9
2272	497		
2769	1067	149	

Rev

3170			
3679	509		Mean – 15'7
1346	503		
1849	1012	163	

3122			
3680	558		15'5
1358	518		
1876	1076	147	

10 53 15

10 51 02

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1936phae.proj..637B

10 54 20

3113
3677 ⟨ 5'64
1356 5'06
1862 1070 149

Dec 15, 1936
EJ

XVII

3164
3660 ⟨ 496 159
1377 496
1873 992 168
Rev

2228
2738 ⟨ 510
440 543
983 1053 153

Mean - 152

220,6
276.1 555 144
412 ⟨ 569
981 1124 136

10 58 46

10 56 33

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1936phae.proj...637B

10 59 52 — 226.6 — Dec 15, 1936 — XVIII

EJ

270.3 — 437
434 — 520
954 — 957 — 176

2153 — 162
2732 — 579
451 — 493
944 — 1072 — 148

Rev

1332 — Mean - 163
1863 — 531
3146 — 497
3643 — 1028 — 159

1303 — 164
1834 — 531
3173 — 457
3630 — 988 — 169

11 04 42

11 02 17

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1936phae.proj..637B

1105 20

1349 Dec 15, 1936 XIX

1850 501 Eg

3180 450

3630 951 178

1356 172

1825 469

3149 531

3680 1000 166

Rev

494

942 448 Mean - 166

2224 498

2722 946 179

420

975 555 160

2216 548

2764 1103 141

111010

110745

1930phae.proj..627B

~~XX~~

1110 56 451 Dec 15, 1936

EJ

996 ∠	5'45'		
2222	5'40		
2762	1085'	145'	
404		155'	
939 ∠	5'35'		
2269	473		
2742	1008	164	
Rev			
3138			Mean – 151
3702 ∠	564		
1323	5'17		
1840	1081	146	
3100			
3642 ∠	542	148	
1330	5'27		
1857	1069	149	

1115 24

11 13 10

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1936phae.proj..637B

G'Kuf } one
Rec

Jan 3, 1936

+X Ursae Majoris comp star to Seeing
good. Variable longitudinal dis. I

14h 17 56.2
81.3 24.1
239.2 26.3 3.25
265.5 50.4

3.26

56.9. } Images by fainter
81.0 22.1

8587.801 236.2 27.8 3.28
264.0 49.9

Rev. Plate

~~173.9~~
145.5
14h 22 172.4 26.9
327.9 27.6 3.08
355.5 54.5

3.05

145.2
173.4 28.2
329.0 27.7 3.02
356.7 55.9

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1936phae.proj..647B

Jan 3, 1936

14:24	146.1		
	174.1	28.0	
	328.1	26.7	3.07
	354.8	54.7	
			3.08
	143.9		
	172.2	28.3	
	328.1	26.1	3.08
	354.2	54.4	
	Reg. Mul.		3.13
8537.813	236.1		
	266.0	30.0	
	59.5	22.7	3.15
	82.2	52.7	
			3.18
	237.6		
	263.9	25.5	
	57.1	25.9	3.22
14:37	83.0	51.2	

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1936phae.proj..637B

O'Kef & Rec

Jan 6, 1936

T. X Lunar Nagoya, comp Shaw,
setting 2.9, 200°; Seeing fair I

12:19 59.8

82.8	23.0	
238.0	22.6	3.48
260.6	45.6	

3.40

59.2

83.9	24.7	
237.9	23.9	3.33
261.8	48.6	

8540
~~8537~~.129 Rec. Phot. 3.01

143.5		
176.0	32.5	
322.0	37.5	2.51
359.5	70.0	

2.62

143.6		
176.6	33.0	
12:42 325.8	30.4	2.73
356.2	63.4	

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1936phae.proj..627B

O'Keefe Sky Rec. 145

II

Jan 6

12.44 142.1

	174.8	32.7	
	322.9	37.0	2.52
	359.3	69.7	

2.58

142.6

	177.0	34.4	
	325.2	31.8	2.64
	357.0	66.2	

Rev. Plot.

2.96

8540.742 239.2

	263.2	24.0	
	58.0		
	84.1	23.1	3.40
		47.1	

238.5 3.34

	264.8	26.3	
	51.5	23.3	3.29
12.52	80.8	49.6	

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1936phae.proj..637B

O'Kut {Ku

Jan 6 III

1254	55.9			
	83.1	24.2		
	237.8	25.6	3.28	
	263.4	49.8		
				3.38
	58.0			
	81.2	23.2		
	234.5	22.5	3.47	
	262.0	45.7		
8540.749	Rev. Print		871.41	3.04
	145.2			
	175.9	30.7		
	325.3	34.7	2.66	
	0.0	65.4		
				2.70
	143.9			
	175.7	31.8		
	326.1	31.8	2.73	
1.03	357.9	63.6		

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1936phae.proj..637B

O'Keefe §5

Jan 6, 1937 IV

1:06	144.0		
	175.1	31.1	
	325.4	33.4	2.69
	358.8	64.5	
			2.70
	143.0		
	174.7	31.7	
	~~328.0~~ 324.7	32.6	2.70
	357.3	64.3	
8540.768	Run Ended.		~~3.17~~ 3.12
	238.0		
	~~260.9~~	22.9	
	60.9	20.5	3.59
	81.4	43.4	
			3.53
	238.0		
	262.2	24.2	
	59.0	21.5	3.47
1.17	80.5	46.7	

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1936phae.proj..637B

O'Keefe §55 §Ru

Jan 6 1937 V

1:38 239.2
261.5 32.3 3.42
59.7 24.5
84.2 46.8
~~238.~~ 3.38
238.0
264.8 26.8
58.7 ~~24.6~~ 21.6 3.34
89.3 48~~.0~~4

8540.780 Rem Phot. 1f 1.11 3.06
326.2
356.1 29.9
414.5 30.6 2.84
475.1 60.5
3/2
1:48 323.7 2.74
6.9 37.2
145.3 28.8 2.64
174.1 66.0

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1936phae.proj...647B

O'Cuff & Rev

Jan 6 1937

VI

1/53	328.2		
	353.3	25.1	
	142.6	30.4	3.04
	173.0	55.5	
	327.4		
	355.3	27.9	
	146.2	26.0	3.02
	172.2	55.9	
	Rev. Plate.		3.18
8540.791	59.5		
	81.0	21.5	
	237.4	27.5	3.32
	264.9	49.0	
	565		3.32.
	80.0	23.5	
2165	239.0	25.5	3.32
	264.5	49.0	

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1936phae.proj..637B

Jan 6, 37 VII

2;12 596
80.5
237.8
261.8
57.2
81.9
-238.6

Clouds

1936phae.proj...677B

Jan 6, 37

U/Cafe & Obs Rec

VIII

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1936phae.proj..637B

O/C { 53 Rec

Jan 2, 1936

T X Ursae Majoris, Comp. Star D.

Sein fair Plot T. I

~~12h48~~ ~~848~~

12:50 57.4

84.0 26.6

2355 28.8 3.04

264.3 55.4

3.06

57.2

84.0 26.8

236.2 27.7 3.08 + 11.

263.9 54.5

8546.747 Rec Plot. 3.08

146.5

172.4 25.9

328.2 27.4 3.13

355.6 53.3

3.10

145.0

172.7 27.7

328.0 26.8 3.08

1:01 354.8 54.5

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1936phae..proj...617B

Jan 12, 1936 II

1:03	143.0			
	172.3	29.3		
	326.9	29.8	2.89	
	356.7	59.1		
				3.00
	145.1			
	173.1	28.0		
	327.6	25.5	3.12	
	353.1	53.5		
8546. ~~714~~ 756	~~Rev Plat.~~			3.06
	237.7			
	262.9	25.2		
	57.1	26.6	3.19	
	83.7	51.8		
	235.5			3.15
	263.9	28.4		
	57.9	25.3	3.11	
1:13	83.2	53.7		

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1936phae.proj..637B

O'Kuf 52-53.

Jan 12/37 III

| 3 : 14 237.2

262.1 24.9
56.8 27.3 3.17
84.1 52.2

235.9 3.13
264.2 28.3
55.9 26.9 3.09
82.8 54.2

Rev. Plant. 3.04

76²
8546.7~~21~~
329.0
353.8 24.8
144.7 31.2 3.02
175.7 56.0

2.94
322.6
354.3 31.7
146.0 28.3 2.86
| 34 : 22 174.3 60.0

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1936phae.proj..627B

Okuf & Hu.

Jan 12, 1937 IV

1:26 328.3
357.2
146.8
175.0

327.5
356.1
145.8
174.9
Perhaps.
56.0
1:36 83.0 — Clouds.

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1936phae.proj..637B

Feb. 12, 1937 J. A. O'Keefe Sols
Rel.
X Usual Region, Comp stars
Var brighter + dim. Setting ≥ 9, 200°
Seeing poor. Clouds + remarks low.

6'46	59.3			
	82.5	23.2		
	236.5	25.3	3.34	
	261.8	48.5		
	E			3.46
	60.8			
	83.6	22.8		
	246.0	20.5	3.59	
8577.496	260.5	43.3		3.38
	Rev. Plat.			
	148.5			
	172.0	23.5		
6'55	325.0	27.4 Clouds,	3.24	
6'57	352.4	50.94		
	E			
	147.2	?		3.30
	172.3	25 Clouds continually		
	328.9	22.9	3.36	
7'03	351.8	48.0		

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1936phae.proj..647B

Feb 12 F

7:25 146.3
174.0 27.7
323.7 29.1 2.98
352.8 56.8

3.16

150.0
174.2 24.2
329.1 24.0 3.35
353.1 48.2

Run Plate 3.12

8577.521 235.8 Darkness at edge of field
262.9 27.1
56.8 29.0 3.01
85.8 56.1

~~23~~ 3.08

236.0
263.0 27.0
57.7 25.7 3.15
7:35 83.4 52.7

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1936phae.proj..637B

O'Rafe } Obs
Rec

Feb. 12, 1937

III

7:37	238.3		
	262.3	24.0	
	56.7	27.2	3.22
	84.9	51.2	
			3.13
	235.6		
	262.9	27.3	3.04
	56.3	27.2	
	83.5	55.5	
	Rec'd Photo.		3.07
8517.529			
	327.0		
	353.9	26.9	
	148.5	27.5	3.08
	176.0	54.4	
	326.8		3.01
	355.5	28.7	
	146.7	29.1	2.94
7:48	145.8	57.8	

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1936phae.proj...637B

O/Cep & Rs. Rec.

Feb. 12, 1937 IV

7:50	329.3		
	353.4	24.1	
	147.5	28.3	3.17
	175.8	52.4	
			3.11
	327.2		
	354.7	27.5	
	145.3	27.7	3.05
	173.0	55.2	
	Rev Plate		3.24
8577.639	59.9		
	83.2	23.3	
	239.0	23.8	3.40
	262.8	47.1	
			3.38
	60.6		
	83.8	23.2	
	237.0	25.0	3.35
8402	262.0	48.2	

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1936phae.proj..637B

Wed PM
June 23, 1937 I
EJ

VV Cep 21 50 -63.2
15" ε Equat, Phot T
Used sidereal watch. Sid 4 19 55 = EST 9 57 00
VV Cep top, liter. than comp * J = BD +62° 2004 Spec F5
Screw 6.5 Circle 23 Colors very different.
Focus poor.
Full moon. Scattered clouds.
(See p. 186 for 1st obs. on VV Cep.)

4 44 15
(ca 10 21 EST)

145.7	✓		
208.8	63.1		
344.7	41.6		
386.3	104.7	154	
164.7			1.80
204.4	39.7		
340.3	45.0		
385.3	84.7	206	

Rev Phot

1.73

71.3			
119.6	48 3		
246.2	54 8		
301.0	103.1	158	
69.0			
117.0	480		1.66
249.4	488		
298.2	96.8	174	

4 52 15

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1936phae.proj..617B

June 23 '37 II

EJ

4 53 20 69.6 ✓

118.5 489

249.0 520

301.0 1009 163

contd p. 196

742 1.79

1180 438

2500 450

2950 888 195

Rev Phot

1600 2.02

2023 423

3469 381

250 804 218

1671

2042 371 2.26

3443 381

4 59 50 224 752 234

1936phae.proj..637B

Feb. 12, 1937 V

Oikaf 66 Rec.

8.04	60.0			
	81.7	21.7		
	238.0	21.3	3.61	
	259.3	43.0		
	60.5			3.55
	82.9	22.4		
	237.9	22.9	3.49	
	260.8	45.3		
	Rev Phot.			3.14
8577.549	144.0			
	176.2	32.2		
	325.7	29.9	2.78	
	355.6	62.1		
	142.3			2.74
	176.8	34.5		
	324.8	30.0	2.69	
8.14	354.8	64.5		

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1936phae.proj..617B

O'Keefe & Rue

VI

Feb. 12, 1937

8:16

	144.0		
	175.0	31.0	
	329.3	27.3	2.93
	356.6	58.3	
			2.83
	147.5		
	178.5	31.0	
	324.7	32.6	2.73
	357.3	63.6	
	Run Plot.		3.14
8577.557	~~260.3~~		
	236.3		
	268.3	24.0	
	60.1	23.9	3.37
	84.0	~~47.9~~	
	239.1		3.46
	266.8	21.7	
	60.8	22.2	
8:27	83.0	~~45.1~~	3.56
		43.9	

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1936phae.proj..637B

O/Kufe & Ra

Feb 15 1937

T X Ursae Majoris Comp star

b Plant T. 29.200° setting

Seeing fair

6:52 237.2 radius

260.1 22.9

59.8 23.8 3.42

83.6 46.7

3.44

237.7

261.0 23.3 ~~3.1~~

61.3 22.4 3.47

83.7 45.7

8580

~~8670~~ 496 Rev. Plant 3.14

327.3

355.5 28.2 ~~28.2~~ 2.86

143.8 31.9

175.7 60.1

2.84

325.2

356.5 31.3

143.9 30.1 2.81

6:56 174.0 61.4

7.

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1936phae.proj..647B

Feb. 18, 1937.

T. X Ursae Majoris. Comp stars
Phot. T. Seeing poor. Variable brightness
+ dis. Setting 29, 200°.

I

10 25	144.3		
	174.4 — var dis	30.1	
	323.9	34.0	2.71
	357.9	64.1	
			2.74
	142.2		
	174.8	32.6	
	326.2	29.6	2.78
	355.8	62.2	
85 8	D.647 Rev. Phot.		3.08
	~~261.1~~		
	238.0		
	261.1	23.1	
	58.2	22.9	3.46
	84.1	46.0	
			3.43
	237.9		
	260.8	22.9	
	56.8	24.3	3.40
10 36	83.1	47.2	

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1936phae.proj..637B

II

10.39 238.1

259.7 21.6

59.1 225 3.55

81.6 44.1

238.0 3.46

260.9 22.9

57.2 25.0 3.37

82.2 47.9

Rem Plat.

326.0 Seeing better 3.13

8588.656 3531 27.1

145.0 33.0 2.86

178.0 60.1

326.9 2.80

354.2 28.3

144.2 34.8 2.74

179.0 63.1

10:50

Watch 10m slow

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1936phae.proj...637B

Feb. 18, 1937 Diff for Rec

TX Ursae Majoris, Comp star B

11:06	324.0		
	356.9	32.9	
	148.2	27.6	2.84
	175.8	60.5	
			2.84
	325.7		
	303.9	28.2	
	144.5	32.3	2.84
	176.8	60.5	
	Rev Plot.		3.08
85 80 3 .676	56.8		
	82.0	25.2	
	239.0	23.2	3.34
	262.2	48.4	
			3.32
	57.8		
	82.1	24.3	
	237.2	25.0	3.30
11:20	262.2	49.3	

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1936phae.proj..637B

II Feb. 18, 1937 IV

11:24 584 μμ di

82.2	23.8	
237.8	234	3.40
261.2	47.2	

Seeing good 3.36

58.5		
81.2	22.7	
231.0	26.3	3.32
263.3	49.0	

3.11

Rev. Phot.

~~5 to 0~~

8580.688

327.0		
354.5	27.5	2.97
146.2	29.6	
175.8	57.1	

2.86

325.3		
356.1	30.8	
144.8	32.3	2.74
177.1	63.1	

11:35

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1936phae.proj...637B

Saturday, February 27, 1937. LEC

7.30 PM New comet With observed in 15". Comet affords as a bright coma about 1' in diameter with a centrally located, almost stellar nucleus of magnitude 12, and suspicion of a stubby tail some 5' in length. Motion northerly. Altitude low. Total magnitude: E 2/3 (1) 1 (2).

(1) = $0^h\ 30^m.8$ + 18° 53' (1855.0)
(2) = 0 32.1 + 19 34

Wednesday, March 3, 1937

LEC

7.00 PM Comet With observed in 15". Comet affords as a slightly diffuse coma 1½' in diameter with a centrally located, strongly condensed nucleus of magnitude 11, and a suspicion of a tail 3' long. Total magnitude equal to star 55 S east, slightly south.

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1936phae.proj..637B

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1936phae.proj...617B

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1936phae.proj..637B

March 5 1937

15 inch. TXH. Nagoya. Comp Slow.
Settles 2.9,200 Vari brightness + dim Seen
good. Phot. T.

10:31 236.9
258.1
56.3
81.2

234.5
260.2
55.0
80.1
Rev. Phot.

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1936phae.proj...677B

U Kap

Mar. 5, 1937 FF

12;38	55.2			
	80.9	~~6.7~~	25.7	
	235.5		26.3	3.18
	261.8		52.0	
				3.11
	55.2			
	81.4		26.2	
	235.8		29.2	3.04
	264.0		55.4	
	Rev. Plot			2.94
	1433			
8598 .743	173.1		29.8	
	324.9		32.3	2.78
	357.2		62.1	
	142.1			2.78
	172.8		30.7	
	325.8		31.5	2.78
13.01	357.3		62.2	

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1936phae.proj..637B

O/Kuiper

Mar 5, 1937 III

~~13.14~~ ~~349.1~~

13.17 323.4

353.2 29.8

143.0 30.6 2.84

173.6 60.4

2.84

322.8

353.3 30.5

144.0 29.8 2.85

173.8 60.3

2.91

1865.98.767 Rev. Phot.

235.9

261.5 25.6

53.4 28.8 3.08

82.2 54.4

3.10

235.2

262.2 27.0

54.2 26.2 3.13

13.38 80.4 53.2

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1936phae.proj...677B

Jan 5, 1937 IV

13:37	55.3			
	80.2	24.9		
	234.5	27.4	3.17	
	261.9	52.3		
	56.1			3.25
	81.6	25.5		
	2355	23.2	3.33	
	258.7	48.7		
	Temp bad			3.07
8598 .781	144.3			
	171.9	27.6		
	320.9		2.86	
	353.2	32.3		
		59.9		2.89
	142.1			
	173.3	31.2		
	325.0	27.3	2.92	
13:50	352.3	58.5		

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1936phae.proj..637B

Nov 5, 1937 V

13:57	143.3			
	173.9	30.6		
	323.2	31.1	2.80	
	354.3	61.6		
				2.88
	142.0			
	171.6	29.6		
	324.0	27.9	2.96	
	351.9	57.5		
	Run Out			3.10
8598 .796	143.8	55.6		
	171.8	80.6	24.8	
	237.2		23.2	3.36
	260.4		48.0	
	56.8			3.33
	81.0		24.2	
	235.8		25.1	3.30
14:17	266.9		49.3	

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1936phae.proj...677B

Mar 5, 1937 VI

14:45	57.0		
	79.8	22.8 ~~68~~	
	237.0	22.8	3.48
	259.8	45.6	
			3.31
	55.6		
	80.9	25.3	
	234.2	27.6	3.14
	261.8	52.9	
	Rev. Plate		3.10
	144.0		
8598.826	172.8	28.8	
	323.2	30.1	2.90
	353.3	58.9	
			2.89
	143.0		
	172.1	29.1	
	325.8	30.3	2.88
14:36	355.5	59.4	

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1936phae.proj..637B

Mar. 5, 1937 VII

14:57 141.4

173.7	32.3		
325.5	30.2	2.77	
352.7	62.5		
			2.83
141.0			
171.6	30.6		
325.4	28.6	2.89	
354.0	59.2		

48 5198 .835 Rev. Phot. 2.99

235.2			
261.3	26.1		
55.3	27.8	3.11	
83.1	53.9		
			3.15
235.3			
261.9	26.6		
55.0	25.8	3.17	
80.8	52.4		

15:09

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1936phae.proj..647B

Mar 5, 1937 VIII

15:12 2382
2605 22.3
55.0 26.7 3.32
81.7 49.0

3.22

2351
2622 27.0
559 26.9 3.11
828 53.9
Rev. Plat. 3.00

8:98.846 3238
3548 31.0
1422 30.0 2.82
1722 61.0

3222 2.78
3559 33.7
1421 30.0 2.73
15:25 1721 63.7

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1936phae.proj..637B

Mar 5, 1937 ~~IX~~

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1936phae.proj...637B

O/Kufe & Ku

Mar 5, 1937 IX

15:27	324.2		
	352.2	28.0	
	142.8	28.2	3.01
	171.0	56.2	
	321.6		2.88
	354.5	32.9	
	142.0	30.1	2.75
	172.1	63.0	
	Rev. Plate		3.10
8598.856	55.5		
	79.8	24.3	
	235.9	26.6	3.24
	262.5	50.9	
	55.8		3.31
	81.6	25.8	
	237.5	23.8	3.38
15:38	259.3	47.6	

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1936phae.proj..637B

Mar 5 1937 XI

16:21	55.5		
	79.9	24.4	
	235.9	27.1	3.21
	262.0	51.5	
	56.3		3.28
	80.0	23.7	
	235.7	24.5	3.35
	260.2	48.2	
	Rev. Plate.		3.64
~~16.26~~	141.3		
8598.893	175.0	33.7	
	323.5		2.67
	355.0	31.5	
		65.2	
			2.80
	142.0		
	170.9	28.9	
	324.0	28.9	2.94
16:31	3529	57.8	

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1936phae.proj...617B

Mar 5, 1937 XII

16:34 143.9
173.4
322.5
354.2
+
149.1
173.7
322.8
353.4
Rev. Plat.
235.6 Seeing not so good. . . .!
260.0 Stars begin
56.7
81.2

235.5 Too much light.

Discontinued at 16:47

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1936phae.proj..637B

O'Keefe } Obs.
} Rec.

April 7, 1937
V V Cephei. Photometer I, setting
Seeing fair. 15 inch telescope 22°
7.0 Variable brighter and dir. I

1.03 E.S.T.	47.9			Comp* +62° 2004 Spec F5
	88.9	41.0		
	229.3	40.7		
	270.0	81.7	2.14	
	47.5			2.06
	88.6	41.1		
	221.9	46.3		
	268.2	87.4	198	
	Rev Plate			2.04
	139.3			
	179.8	40.5		
	316.2	45.7		
	1.9	86.2	202	
	136.4			202
	178.7	42.3		
	315.5	44.2		
1.17	359.7	86.5	201	

1:10

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1936phae.proj...617B

APR -7 1937

II

1:19 E.S.T. 1373

177.0	39.7		
315.2	432		
358.4	82.9	211	
135.4			2.00
179.8 ∠	44.4		
314.1	46.7		
360.8	91.1	188	
Rev. Phot			
220.8			2.05
265.7 ∠	449		
47.3	432		
90.5	88.1	196	
227.0			210
269.0 ∠	420		
49.3	367		
86.0	78.7	223	

1:36

1:28

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1936phae.proj..637B

APR -7 1937

O'Keefe obs

I

13:39 48.9

87.2 38.3

220.1 52.2

272.3 90.5 190

41.8 175

90.7 48.9

218.3 53.2

271.5 102.1 161

Rev. Plud. 1.68

310.2

361.3 51.1

133.0 47.9

180.9 99.0 168

322.0 160

363.1 41.1

125.3 64.7

13:45 190 105.8 152

13:42

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1936phae.proj...617B

APR -7 1937

IV

13:51	137.1		
	179.1	42.0	
	317.5	43.2	
	0.7	85.2	205°
	139.2		204
	181.3	41.1	
	317.2	44.7	
	1.9	85.8	203
	Rev P bat.		
	229.3		215°
	269.5	40.2	
	45.8	38.1	
	84.9	78.3	225°
	228.1		226
	268.8	40.7	
	49.9	36.9	
14:02	86.8	77.6	227

13:56

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1936phae.proj..637B

APR - 7 1937

V

Eq {Obs / Rec

14:05 49.0

86.0 ∠ 370

226.8 423

269.1 79.3 222

40.9

90.7 ∠ 498 2.02

2246 441

2687 93.9 181

Rev Plot

309.0 1.74

361.0 ∠ 520

1321 535

1856 105.5 152

3118 1.45

3622 ∠ 504

1271 612

14:11 1883 111.6 138

14:08

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1936phae.proj..647B

APR - 7 1937

VI

EJ

14 12 35	311.3			
	3647	534		
	1321	502		
	1823	103.6	157	
	3183			1.52
	3668	485		
	1295	598		
	1893	108.3	146	
	Phot			
	2267	433		1.66
	2700	497		
	473	93.0	183	
	970			
	2220			1.80
	2702	482		
	446	474		
14 19 12	920	95.6	177	

14 15 54

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1936phae.proj..637B

APR - 2 1937

VII EJ

14 20 30 225.1

1744	493		
462	439		
901	93.2	183	
1276		1.84	
1730	454		
445	471		
916	92.5	185	
Phot			
1260		1.72	
1843	583		
3141	498		
3639	108.1	146	
1324		1.59	
1824	500		
3162	475		
3637	97.5	172	

14 26 00

14 23 15

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1936phae..proj...617B

May 2, 1937

V V Cephei Photometer T. Selling

2.2, 7.0. Seeing ~~gut~~ fair Variable bright to + dis O'Keefe recording and observing.

I.

1h1.04 D.S.T. 230,3

269.4	39.3		
51.8	37.5	2.29	
89.3	76.8		
			2.33
231.4			
264.8	33.4		
48.6	40.8	2.37	
87.4	74.2		
Rev. Dist.			1.96
304.8			
3.0	58.2		
134.7	49.6	~~1.03~~ 1.47	
184.3	107.8		
~~3+~~			
			1.60
314.0			
8.1	54.1		
135.8		1.72	
14h22 179.0	43.2		
	97.3		

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1936phae.proj..637B

II O'Keefe Rev

~~14:33 D.S.T. 4.1~~

14:34 D.S.T. 135.1

180.9	45.8	1.95
317.4	42.9	
0.3	88.7	

1.90

137.0

180.2	43.2	
314.0	48.9	1.86
2.9	92.1	

Rev. Pair 2.08

230.9

268.9	38.0	
56.9	37.3	2.34
88.2	75.3	

2.26

228.5

268.6	40.1	
51.0	40.9	2.17
91.9	81.0	

14:49

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1936phae.proj...617B

O/Kap Eq Rev

III

17:5 DST. 228.1

271.2	42.5	
49.2	40.5	2.11
89.7	83.0	

228.5		2.14
268.6	40.1	
47.9	70.7	2.17
88.6	80.8	

Rev. Plus

~~230.9~~		2.04
139.2		
177.2	38.0	
317.7	41.2	2.22
356.9	79.2	

1.95

136.9		
183.4	46.5	
310.5	524	1.68
15 4 2.9	98.9	

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1936phae.proj..637B

HCl TK

15:06 135.4

182.1	46.7		
314.0	50.9	1.72	
4.9	97.6		
			1.74
133.9			
179.0	45.1		
315.5	50.4	1.77	
5.9	95.5		
Rev. Plat.			2.06
229.8			
269.3	39.5		
51.9	34.1	2.39	
86.0	73.6		
			2.38
229.8			
266.3	346.5		
52.3	37.6	2.37	
15:16 89.9	74.1		

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1936phae..proj..647B

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1936phae.proj..637B

VV Cyg See p 160

June 23-1937 III

EG

5 02 30

1620	✓		
2032	412		
3470	398		
26,8	81.0	2.17	
160.7			2.14
203.5	428		
3449	398		
24.7	826	212	
Rev			
663			1.71
1242	579		
2463	615		
3078	1194	121	
668			
1220	552		1.27
240.4	58.5		
298.9	113.7	133	

5 08 15

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1936phae.proj...67B

June 23'37 IV
EJ

5°09 00	65.7	✓		
	1222 ←	56 5		
	2460	58 7		
	3047	115 2	130	
	708			1.28
	1249 ←	541		
	2388	643:		
	303.1 :	1184:	1.23 :	
	Rev			1.76
	3446			
	241 ←	395		
	1645	385		
	2030	780	225	
	3438			
	278 ←	440		2.23
	1635	356		
5° 14 40	199.1	796	221	

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1936phae.proj..637B

V

5°24 00

3462 ✓

221 ∠ 359

1626 446

2072 805 2.18

3423 216

281 ∠ 458

1613 360

1973 818 214

Rev

2450 1.77

2979 ∠ 529

700 535

1235' 1064 1.50

2426 1.38

3070 644

692 ∠ 529

5° 30 00 1221 1173 1.25'

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1936phae.proj...67B

VI

5 30 45 2492 ✓

3003 ← 511

707 500

1207 1011 163

2456 1.54

3031 ← 575

678 507

1185 1082 146

Rev

3438 1.82

228 390

1656 ← 403

2059 793 222

3418 211

290 472

1611 ← 396

5 36 10 2007 868 200

1936phae.proj..637B

June VII

Eg

5 36 50

3453	✓		
240	387		
1611	439		
2050	826	2.12	
3417			2.02
253	436		
1579	463		
2042	899	1.92	
Rw			
699			1.82
1181	482		
2457	525		
2982	1007	1.64	
713			
1206	493		1.63
2468	522		
2990	1015	1.62	

5 42 20

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1936phae.proj..637B

~~VIII~~

Eg

5 4340

674 ✓ Focus much Co

1134 460

2447 571

3018 1031 1.58

663 160

1202 539

2493 477

2970 1016 1.62

Rev

1562 1.80

2032 470

3434 442

276 912 1.88

1617 2.01

2043 426

3440 394

5 4900 234 820 2.14

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1936phae.proj..637B

IX
Eg

5h 50m 00s

1593	✓		
2048	455		
3420	423		
243	878	1.97	
1620			1.98
2063	443		
3412	428		
240	871	1.99	
Rev			
2473			1.80
3005	532		
708	466		
1174	998	1.66	
2449			162
3022	573		
695	455		
1150	1028	1.59	

5h 55m 35s

Sid 6 13 10 = EST 11 50 00

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1936phae..proj..63B

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1936phae.proj..637B

V V Cep

June 24, 1937

I

Sid 7 09 56 = EST 12 43 00 ✓

E J Obs

R M Rec

7 41 40	81.2			
	145.3 <	64.1		
	2666	57.7		
	3243	121.8	1.15	
	85.9			
	146.3 <	60.4		1.28
	271.0	50.1		
	321.1	110.5	1.41	

Reverse Photometer

1.85

	4.9			
	41.8 <	36.9		
	186.3	34.3		
	220.6	71.2	2.47	
	5.3			
	43.9 <	38.6		2.42
	187.6	35.2		
7 49 20	222.8	73.8	2.38	

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1936phae.proj..637B

II

E. Jobs

Ru Rec

7 50 30 3.8 ✓

48.0 <

186.5 44.2

224.6 38.1

82.3 2.13

5.3 2.34

40.8 < 35.5

189.1 33.1

222.2 68.6 2.55

Rev. Phot.

1.85

263.4

321.6 58.2

57.0 < 50.2

137.2 108.4 1.45

260.2 1.36

321.3 61.1

88.7 < 55.5

7 55 20 144.2 116.6 1.27

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1936phae.proj..637B

J

JH

E. J. obs.

RU Rec.

8° 0 20 266.9

315.7 ⟨ 48.8

83.0 58.0

141.0 106.8 1.49

261.9

324.0 ⟨ 62.1 1.32

85.7 60.0

145.7 122.1 1.14

Rev. Phot.

1.83

188.2

222.8 ⟨ 34.6

9.8 } 40.9

50.7 75.5 2.33

189.0 2.34

219.7 ⟨ 30.7

359.0 44.3

8 7 0 43.3 75.0 2.35

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1936phae..proj..647B

8 8 30 5.1

43.7c

~~II~~

E.J. de

R.W. Rae.

Stopped by clouds.

Sid 8 26 11 = EST 1 59 00

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1936phae.proj..637B

VV Cephei 15" E Equal + Phot T. July 1, 1937 EJ

21 55.5 +63.3

Sid 5 52 31 = EST 10 58 00

6 20 00 179.7 ✓ Scattered clouds.

124.8 ← VV disap. 45.1

361.3 44.1

45.4 89.2 1.94

184.6 1.97

227.2 ← 42.6

0.3 44.4

44.7 87.0 2.00

Rev 1.70

83.0

138.1 ← 55.1

267.0 52.0

319.0 107.1 1.49

90.0 1.44

140.7 ← 50.7

261.6 60.7

6 26 30 322.3 111.4 1.39

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1936phae.proj..637B

✓

EJ
H

July 1, 1937

6 35 10

89.9		
135.7 ←	45.8	
264.1	576	
321.7	1034	1.517

91.8		
143.6 ←	518	1.57
2669	520	
3189	1038	1.516

Rev

7.2		1.82
46.7 ←	39.5	
1847	399	
2246	794	2.21

359.9		2.07
48.7 ←	488	
1831	411	
224.2	899	1.92

6 41 40

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1936phae.proj..637B

July 1, 1937. III

Eg

6 42 15°	359.1		
	40.7	41.6	
	185.5 ←	396	
	225.1	812	2.16
	4.8		2.15
	46.8 ←	42.0	
	184.7	40.3	
	225.0	823	2.13
	Rev		
	259.8		1.86
	319.0 ←	592	
	95.4	439	
	139.3	1031	1.58
	266.7		1.57
	318.1 ←	514	
	91.0	524	
6 48 45°	143.4	1038	1.56

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1936phae.proj..637B

✓

July 1, 1937 IV

EJ

6 50 50	85.9		
	141.2 ∠	55 3	
	276 0	427	
	318.7	980	1.71
	83.3		1.57
	142.1 ∠	588	
	267.8	510	
	318.8	1098	1.42
	Rev		
	355.0		1.79:
	47.8 ∠	52.8	
	187.0:	397:	
	226.7	925:	1.85:
	2.8		2.01:
	45.3 ∠	42.5	
	189.1	384	
6 57 00	227.5	80.9	2.17

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1936phae.proj..647B

✓

July 1, 1937

V

EJ

6 58 45

	1.3		
	44.0	42.7	
	179.1	45 2	
	224.3	879	1.97
	3.4		2.06
	47.9	44 5	
	186.9	371	
	224.0	816	215
	Rev		
	83.8		1.82
	142.8	590	
	268.3	488	
	317.1	1078	1.47
	869		1.58
	139.0	521	
	2728	469	
7 04 45	3197	990	1.68

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1936phae.proj..637B

July 1, 1937 VI

EJ

7 05 30 84.7

135.6 509

2685 513

3198 1022 1.60

898

141.3 515 1.63

2677 483

3160 998 166

Rev

1812

2213 401 1.90

3.2 421

45.3 822 213

1848

2280 432 2.18

6.2 355

7 10 50 41.7 787 223

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1936phae.proj:.627B

July 1, 1937 VII

Eg

7 11 40

185.0

221.8 ← 368

7.2 376

44.8 744 2.36

181.6

227.4 ← 45.8 2.19

3.8 40.8

44.6 866 2.01

Rev

81.1 :

140.7 ← 59.6 : 1.83 :

2699 499

3198 1095 : 1.43 :

860 1.47 :

1426 ← 566

2712 495

7 17 10 320.7 1061 151

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1936phae.proj..637B

July 1, 1937 VIII

EJ

~~7 21 40~~

7 22 15

264.0			
317.0 ←	530		
882	528		
1410	1058	15.2	
2651			
3220 ←	569		1.46
844	539		
1383	1108	140	
Rev			
3.3			
42.3 ←	390		1.90
1890	350		
2240	740	238	
4.1			
44.2 ←	401		2.34
185.7	367		
2224	768	229	

7 27 45

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1936phae.proj...627B

July 1, 1937 TX E7

72820 4.1

43.1 ✓ 390

~~1640~~ 395

5.3 785

44.8 224

1845'

2257 ✓ 412

42 360

40.2 772 228

Rus

2685' 1.98

3158 ✓ 473

90.0 485

1385' 958 176

2711 1.70

3177 466

838 ✓ 535

73400 1373 1001 165'

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1936phae.proj..637B

✓

July 1, 1937 X

EJ

7 34 50

267.8		
315.7	479	
904	480	
1384	959	176

2663		
3187	524	1.69
892	490	
1382	1014	162

Rev

0.7		
45.2	44.5	1.94
1860	360	
2220	805	218

5.0		
45.0	40.0	219
1837	40.3	
2240	803	219

7 40 00

7 50 49 Sid Time = 12 56 00 EST

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1936phae..proj...6?7B

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1936phae.proj..6378

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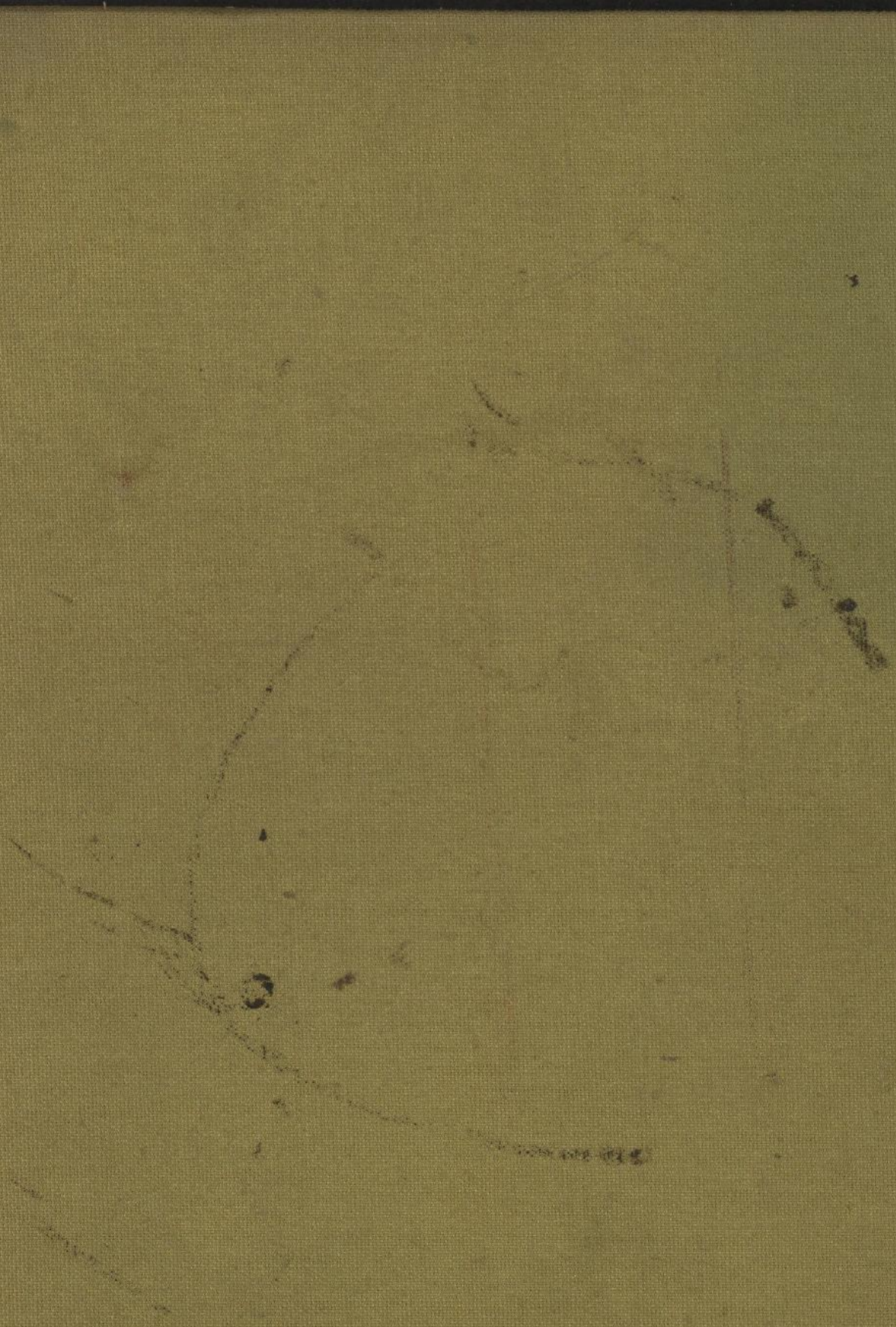
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