KG
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12-inch

Parr-

Back

Aug 1936—

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Watch Time from Prec. Norm

Friday - Saturday August 17-18, 1934

Phot T 75 Cygni 21 36 43 FWW Obs Rec (12-inch telescope)

Night I (Var brighter + dis

14h 51m EDST

208.8 41.7 Comp stars +42°4164

167.1

28.3 38.1

350.2 79.8 - 2.20

Reversed images (method used until page 44)

- 2.56

205.0 32.3

172.7

21.1 26.3

354.8 58.6 - 2.91

15 08
- 01
15 07
4
19 07 GMT

Reversed plate

110.8 25.0

85.8

290.0 24.8 - 3.28

265.2 49.8

Reversed images

- 2.32

131.1 58.6

72.5

303.3 53.5 - 1.37

249.8 112.1

4 | 9.76 - 2.44

2.44

15 25

Note: Immediately after this value 2.44 was obtained, Mr. Cunningham obtained 2.45

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1934phae.proj..667W

Watch Time Saturday-Sunday August 18-19, 1934

from Prec. Nom. Phot T 75 Cygni 21 36 43 ∓WW Obs Rec

night II Var brightly & dis Group I

13h 22m EDST 302.7 44.5 Comp obs +42° 4164

258.2

123.9 50.6

73.3 95.1 - 1.78

- 2.16

296.7 34.1

262.6

Watch correct 117.5 35.0 - 2.54

82.5 69.1

13 32

4

17 32 GMT 388.3 37.5 - 2.65

350.8

204.0 28.4

175.6 65.9 - 2.34

393.6 44.3 - 2.03

349.3 4 | 9.00

211.3 41.3 2.25 - 2.25

13 42 170.0 85.6

Slight uniform haze throughout obs of this date

Cv for night = 2.26

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1934phae.proj..667

Watch Line from Prec. Iron Phot T 75 Cygni 21 36 43 7 W W Obs Ree

Saturday - Sunday August 18-19, 1934

Var brighter & dif Group II

13h 43m EDST

395.1			
336.3	58.8	- 1.35	
216.2	54.3		
161.9	113.1		
386.3	31.3		
355.0		- 2.79	
205.3	30.6		
174.7	61.9		

13 50
00
13 50
4
17 50 GMT

116.1	31.2	
84.9		
296.3	32.4	- 2.73
263.9	63.6	
116.4	34.1	
82.3		- 2 33
300.3	41.3	
259.0	75.4	4 | 9.20
		- 2.30

13 57

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1934phae.proj...667W

Walch. Line Saturday - Sunday August 18-19, 1934
from
Prec. from Phot T 75 Cygni 21 36 43 FWW Obs Ree

Var brightness dia Group III

h m
13 59 EDST 121.6
48.5
73.1 -1.88
302.2 42.7
259.5 91.2

116.2
78.5 37.7 -2.24
301.8 40.8
261.0 78.5

14 05
00
Phot. Rev.
14 05
4
204.5
28.8
175.7
1805 GMT 383.2 28.2 -2.98
355.0 57.0

219.9 52.6
167.3 -1.72
14 11 396.7 44.9 4|8.82
351.8 97.5 -2.20

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1934phae.proj..667

Watch Time Saturday - Sunday August 18-19, 1934
from
Prec Worn Phot T 75 Cygni 21 36 43 ≠WW Obs Ree

var brightness & dis Group IV

14h 19m EDST	222.8		
		51.8	
	171.0		−1.59
	401.5	50.8	
	350.7	102.6	
	209.0	27.7	
	181.3		−2.79
	394.1	34.2	
14 24	359.9	61.9	
00			
14 24	304.1	36.7	
4	267.4		−2.56
18 24 G-MT	121.5	31.8	
	89.7	68.5	
	304.2		
	266.6	37.6	−2.28
	125.3	39.5	4|9.22
14 29	85.8	77.1	−2.30

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1934phae.proj..667M

Watch Line Saturday - Sunday August 18-19, 1934
from
Prec Noon Phase T 75 Cygni 21 36 43 = WW Obs Ree

Var brightness + dia Group I

14h 34m EDST	145.5			
	107.8	37.7	-2.28	
	326.8	39.3		
	287.5	77.0		
	139.5	29.6	-2.91	
	109.9			
14 39 00	321.7	29.2		
	292.5	58.8		
14 39 4	237.4			
18 39 G-MT	195.3	42.1	-2.03	
	61.8	43.7		
	18.1	858		
	239.3			
	196.0	43.3	-1.82	
	63.1	50.1	4 9.04	
14 44	13.0	93.4	-2.26	

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1934phae.proj..667M

Wadde Line Saturday - Sunday August 18-19, 1934
from
Prec. Room Phad T 75 Cygni 21 36 43 7 IV W Os Rec

ran brightstar & dez group V

14 49 EDST	65.1			
	24.2	40.9	-2.08	
	244.3	43.0		
	201.3	83.9		
	62.5			
	27.4	35.1	-2.60	
14 54	241.0	32.0		
00	209.0	67.1		
14 54				
4	331.4			
18 54 GMT	300.0	31.4	-2.64	
	153.5	34.8		
	118.7	66.2		
	336.6	45.1	-1.81	
	291.5		4 19.13	
	158.2	48.9	-2.28	
	109.3	94.0		
14 59				

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1934phae.proj...667

Wadeline Tuesday - Tuesday August 20-21, 1934
from
Precision Phot T 75 Cygni 21 36 43 FWW abs Re

VI Night III Var brightn & dir group I

10h 12m EDST	148.8		Comp star +42° 4164
	104.8	44.0	1.96
	329.1	44.4	
	284.7	88.4	- 1.98
	145.3	41.2	1.99
	104.1		
10 18.5	328.3	46.1	
00	282.2	87.3	
10 18.5			
4			
14 18.5 G MT	232.7		
	193.7	39.0	2.31
	54.1	37.3	
	16.8	76.3	
			- 2.38
	233.2		
	195.9	37.3	2.44
10 25	53.2	34.7	4 | 8.70
	18.5	72.0	2.18 - 2.18

From
Qv for night = 2.29

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1934phae.proj..667

Watch time Monday - Tuesday August 20-21, 1934

from

Prec Nom Phot T 75 Cygni 21 36 43 F W W Obs Ree

Var brighter + dis group II

10h 48m EDST	300.1		—
	256.4	43.7	— 2.01
	123.1	42.7	
	80.4	86.4	
	301.2		
	261.2	40.0	— 2.19
10 54	121.0	40.1	
00	80.9	80.1	
10 54			
4	391.8		
14 54 GMT	356.0	35.8	— 2.59
	207.9	31.8	
	176.1	67.6	
	392.1		
	354.1	38.0	— 2.31
	211.0	38.3	4 | 9.10
11 00	172.7	76.3	— 2.28

Nom

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1934phae.proj..667

Watch time from Pres Room Monday - Tuesday August 20-21, 1934

Phot T 75 Cygni 21 36 43 7WW Also Pec

Var brighter & dis Group III

11h 10m EDST	391.3			
	358.2	33.1	-2.58	
	208.3	34.8		
	173.5	67.9		
	388.1			
	357.8	30.3		
11 16	206.1	30.0	-2.85	
00	176.1	60.3		
11 16				
4				
1516 GMT	121.0			
	82.6	38.4		
	303.3	42.0	-2.18	
	261.3	80.4		
	123.9			
	83.5	40.4		
	301.7	43.1	-2.09	
	258.6	83.5	4 | 9.70	
			-2.42	

11 22

Worn.

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1934phae.proj..667

Cradle Line Sunday - Sunday, August 20-21, 1934
from
Pole Moon Phad T 75 Cygni 21 36 43 ≠WW Obs Rec

Var Crighter & dis group II

11 28 EDST	124.7		
	78.3	46.4	-1.91
	302.4	43.8	
	258.6	90.2	
	121.9		
	79.1	42.8	-2.05
11 33.	303.3	42.1	
00	261.2	84.9	
11 33			
4			
1533 GMT	207.1		
	174.9	32.2	-2.66
	389.0	33.4	
	355.6	65.6	
	209.8		
	173.2	36.6	-2.43
	390.5	35.9	4|9.05
	354.6	72.5	-2.26

11 38

Moon

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1934phae.proj..667W

Watch Time Monday - Tuesday, August 20-21, 1934

from Peck Mon Phot T 75 Cygni 21 36 43 = W W obs Rec

far brighter & dis Group I

11 40 EDST

204.7		
171.6	37.1	−2.31
386.8	39.0	
347.8	76.1	

209.2		
172.7	36.5	
384.1	32.6	−2.54
351.5	69.1	

11 46
00
11 46
4
15 46 GMT

302.1		
258.9	43.2	
121.9	44.3	−1.98
77.6	87.5	

297.9			
260.7	37.2		
116.8	36.7	−2.38	
80.1	73.9	4	9.21
			−2.30

11 52

Moon

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1934phae.proj..667M

Watch time Monday - Tuesday August 20-21, 1934
from
Prec Moon Phad T 75 Cygni 21 36 43 FWW Old Rec

Var brightn & dia Group II

12 05 EDST	297.0			
		37.8		
	259.2		-2.14	
	124.7	44.1		
	80.6	81.9		
	295.3	37.5		
	257.8			
12 10.5	112.8	29.0	-2.62	
00	83.8	66.5		
12 10.5				
4				
	388.8			
16 10.5 G-MT	351.5	37.3		
	206.1	37.4	-2.36	
	168.7	74.7		
	389.1			
		40.9		
	348.2			
	209.5	41.8	-2.12	
12 16	167.7	82.7	4 9.24	
			-2.31	

Moon very near horizon now

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1934phae.proj..667W

Watch time Monday - Tuesday, August 20-21, 1934

from Prec Noon Phot T 75 Cygni 21 36 43 F W W Obs Rec

Var brightness & dis Group XII

12 25 EDST	391.5		
		42.3	
	349.2		-2.09
	209.0	41.2	
	167.8	83.5	
	389.1		
		36.8	
	352.3		
12 30	208.5	41.8	-2.24
00	166.7	78.6	
12 30			
4			
16 30 GMT	120.1		
	79.9	40.2	
	300.2	427	-2.11
	257.5	82.9	
	120.7		
	76.5	44.2	
	300.8	42.2	-2.01
	258.6	86.4	4 | 8.45
12 35			-2.11

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1934phae.proj..667M

Radio Time Tuesday - Tuesday, August 20-21, 1934
from
Pierrefonds Phad T 75 Cygni 21 36 43 FWW Obs Pierrefonds

Var brightness & dis Groups XIII

12 40 EDST	120.7		
	77.5	43.2	
	300.3	43.8	-2.00
	256.5	87.0	
	115.2		
	80.0	35.2	-2.35
12 45	300.2	39.6	
00	260.6	74.8	
1245			
4			
	203.2		
16 45 G-MT	172.0	31.2	-2.59
	387.1	36.3	
	350.8	67.5	
	208.9		
	168.3	40.6	-2.16
	390.4	40.5	4 | 9.10
12 50	349.9	81.1	-2.28

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1934phae.proj..667N

Watch time Tuesday - Tuesday, August 20-21, 1934
from
Prec Room Phot T 75 Cygni 21 36 43 F W W Obs Pec

II Var brightn & dis Group IX

13 15 EDST	388.8			
	350.1	38.7		
	205.4	39.1	-2.26	
	166.3	77.8		
	384.3			
	345.4	38.9		
	204.5	38.1	-2.28	
13 19.5	166.4	77.0		
00				
13 19.5				
4	120.4			
	76.8	43.6	-1.91	
17 19.5 GMT	299.6	46.7		
	252.9	90.3		
	120.3			
	76.2	44.1	-2.11	
	296.0	38.7	4 | 8.56	
	257.3	82.8	-2.14	

13 24

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1934phae.proj..667M

Watch Time from Prec Room — Tuesday - Tuesday August 20-21, 1934

Phad T 75 Cygni 21 36 43 7WW Obs Rec

far brighter & dis — Group B

13 25 EDST	117.0		
	74.7	42.3	-2.08
	296.4	41.8	
	254.6	84.1	
	115.0		
	75.3	39.7	
13 30	297.7	38.4	-2.25
00	259.3	78.1	
13 30			
4			
17 30 G-MT	381.6		
	350.0	31.6	-2.61
	206.3	35.2	
	171.1	66.8	
	384.8		
	349.1	35.7	-2.28
	206.9	41.6	4 | 9.22
	165.3	77.3	-2.30
13 35			

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1934phae.proj..667N

Wadeline Tuesday – Tuesday August 20–21, 1934

from

Pred from Phad T 75 Cygni 21 36 43 FWW Obs Rec

ran brighter & dis. Group XI

13 36 EDST	387.1		
	347.5	39.6	-2.18
	207.9	40.8	
	167.1	80.4	
	380.2		
	350.1	30.1	-2.79
13 41.5	202.2	31.7	
00	170.5	61.8	
13 41.5			
4	113.0		
17 41.5 GMT	77.1	35.9	-2.39
	296.9	37.7	
	259.2	73.6	
	116.9		
	74.6	42.3	
	299.7	44.1	-2.01
	255.6	864	4|9.37
13 47			-2.34

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1934phae.proj..667

Wobble time from Pole Tron — Monday - Tuesday, August 20-21, 1934

Phab T 75 Cygni 21 36 43 FWW Also Rec

Ran brightn & dis — Group XII

$13^h\ 52^m$ EDST	121.9		
	76.1	45.8	−1.92
	299.1	43.9	
	255.2	89.7	
	112.9		
	80.6	32.3	−2.61
13 59	291.3	34.6	
00	256.7	66.9	
13 59			
4	200.1		
17 59 GMT	170.6	29.5	
	380.8	333	−2.76
	347.5	62.8	
	206.3		
	171.1	35.2	
	382.6	376	−2.42
	345.0	72.8	4 | 9.71
14 06			2.43

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1934phae.proj...667

Watch time Tuesday - Tuesday, August 20-21, 1934
from
Pre from Phot T 75 Cygni 21 36 43 F W W Obs Rec

Var brightn & dis Group XIII

14 10 EDST	207.2		
		36.2	
	171.0		-2.45
	385.2	35.6	
	349.6	71.8	
	202.8		
		32.8	
	170.0		
	382.8	32.7	-2.66
14 17.5	350.1	65.5	
00			
14 17.5	300.8		
		43.7	
4	257.1		-2.04
18 17.5 GMT	114.6	41.7	
	72.9	85.4	
	298.7		
		40.5	
	258.2		-2.12
	115.7	42.2	4 | 9.27
	73.5	82.7	-2.32
14 25			

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1934phae.proj..667M

Watch Time from Prec Noon — Monday - Tuesday, August 20 - 21, 1934

Phad T 75 Cygni 21 36 43 FWW Obs Prec

ran brightn & dis Group XIV

14h 39m EDST	296.1		
	258.2	37.9	-2.10
	120.3	45.4	
	74.9	83.3	
	293.9		
	260.9	33.0	-2.45
14 44.5	115.1	38.6	
00	76.5	71.6	
14 44.5			
4			
18 44.5 GMT	385.7		
	347.7	38.0	-2.46
	204.2	33.5	
	170.7	71.5	
	3868		
	346.2	40.6	
	207.1	37.4	-2.25
	169.7	78.0	4 | 9.26
			-2.32

14 50

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1934phae.proj..667M

Watch Time Monday - Tuesday, August 20-21, 1934
from
Observer Phot T 75 Cygni 21 36 43 FWW Obs Rec

Var brighter & dif Group XV

14 h 50 m EDST	345.2		
	343.0	42.2	-2.29
	207.7	34.7	
	173.0	76.9	
	345.6		
14 58.5	352.1	33.5	-2.80
00	201.8	28.0	
14 58.5	173.8	61.5	
4			
18 58.5 GMT	120.5		
	75.7	44.8	-2.15
	298.3	36.6	
	261.7	81.4	
	121.2		
	72.3	48.9	-1.96
	297.7	39.4	4|9.20
	258.3	88.3	-2.30

15 07

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1934phae.proj..667M

Watch time from Press room — Monday-Tuesday, August 20-21, 1934

Phad T 75 Cygni 21 36 43 7WW Obs Pec

For brightness & dis — Group XVI

15 11 EDST

	118.0		
	76.3	41.7	−2.01
	297.9	44.7	
	253.2	86.4	

	112.0		
	79.1	32.9	−2.68
15 19	294.7	31.9	
00	262.8	64.8	
15 19			
4			
19 19 GMT	381.2		
	342.3	38.9	
	201.2	28.5	−2.59
	172.7	67.4	

	387.8		
	346.0	41.8	
	207.0	40.2	−2.14
	166.8	82.0	4 | 9.42
			−2.36

15 27

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1934phae.proj..667W

Watch Tue Tuesday - Wednesday, August 21-22, 1934
from
Prec. Wom Phot T 75 Cygni 21 36 43 FWW Alb Rc

Night IV Var Enighter 9 dio

Comp Star +42° 4164
Group I

12 44 EDST	211.0		
	161.4	49.6	
	390.1	45.8	-1.77
	344.3	954	
	208.8		
	162.6	46.2	
12 48	392.0	457	-1.86
00	346.3	91.9	
12 48			
4	293.2		
16 48 C-mT	261.2	32.0	-2.72
	111.2	31.9	
	79.3	63.9	
	290.8		
	263.0	27.8	
	1130	35.5	-2.74
	77.5	63.3	4|909
12 52			-2.27

Cw for night = 2.28

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1934phae.proj..667M

Wadde Line Tuesday - Wednesday August 21-22, 1934
from
Prec Nom Phab T 75 Cygni 21 36 43 F W W Obs Rec

Var brighter & dis group II

12h 54m EDST

289.9
256.2 33.7 −2.36
111.2 40.7
70.5 74.4

288.8
253.5 35.3 −2.42
108.7 37.5
71.2 72.8

12 58.5
00
12 58.5
4
16 58.5 GMT

384.2
341.7 42.5
202.0 40.6 −2.10
161.4 83.1

380.4
342.3 38.1
202.7 44.0 −2.13
158.7 82.1 4 | 9.01
−2.25

13 03

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1934phae.proj..667N

Watch time Tuesday - Wednesday, August 21-22, 1934
from
Prec from Phot. T 75 Cygni 21 36 43 FWW Obs Red

Var brighter & dis group III

13h 06m EDST	384.9			
	342.5	42.4	-1.94	
	205.3	46.6		
	158.7	89.0		
	380.1			
	345.8	34.3	-2.76	
	195.0	28.5		
13 10	166.5	62.8		
00				
13 10	113.2			
4	73.7	39.5		
17 10 G-MT	288.2	35.1	-2.36	
	253.1	74.6		
	113.6			
	72.8	40.8		
	290.4	37.5	-2.25	
	252.9	78.3	4 | 9.31	
13 14			-2.33	

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1934phae.proj..667

Watch Time from Preceding Noon

Tuesday - Tuesday August 27-28, 1934

Night V

Phad T 75 Cygni 21 36 43 ≠WW Obs Rec

Var brighter & dis Comp star +42° 4164 Group I

11h 35m EDST	112.2		
	72.0	40.2	-2.23
	291.7	38.6	
	253.1	78.8	
	110.0		
	74.7	35.3	
11 40	292.3	36.3	-2.45
~~00~~	256.0	71.6	
11 40			
4			
15 40 GMT	203.3		
	164.1	39.2	
	381.4	36.2	-2.33
	345.2	75.4	
	197.7	35.0	
	162.7		
	383.7	37.6	-2.42
	346.1	72.6	4 | 9.43
11 45			-2.36

General Haze

Average for night = 2.32

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1934phae.proj...667M

Watch Sunday - Tuesday August 27-28, 1934

Time from Phot T 75 Cygni 21 36 43 FWW also Prec from Prec Room

Van brighter + dif

Group II

11h 46m EDST	201.1		
	162.6	38.5	-2.31
	381.8	37.7	
	344.1	76.2	
	203.5		
	162.6	40.9	
11 51	383.8	37.7	-2.24
00	346.1	78.6	
11 51			
4			
15 51 G-MT	110.2		
	71.8	38.4	
	293.8	40.6	-2.22
	253.2	79.0	
	113.8		
	73.7	40.1	
	295.9	41.4	-2.15
	254.5	81.5	4 | 8.92
			-2.23
11 56			

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1934phae.proj..667

Watch Time Monday - Tuesday August 27-28, 1934
from
Free hom Phot T 75 Cygni 21 36 43 FWW obs pre

Fair brightness & dis

Group III

12h 10m = DST

	118.3		
	68.4	49.9	
	295.3	42.6	-1.85
	252.7	92.5	
	112.1		
	73.2	38.9	-2.30
	291.8	37.6	
12 15.5	254.2	76.5	
00			
12 15.5			
4	199.6		
	166.7	32.9	
16 15.5 GMT	379.6	32.6	-2.66
	347.0	65.5	
	200.0		
	165.5	34.5	-2.53
	380.3	34.8	4 | 9.34
	345.5	69.3	-2.34

12 21

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1934phae.proj..667M

Watch time Monday - Tuesday August 27-28, 1934
from
Prec Moon Phot T 75 Cygni 21 36 43 FWW Obs Rec

Var brightn & dia

Group IV

12h 34m EDST	200.2		
	163.3	36.9	-2.36
	381.8	37.7	
	344.1	74.6	
	196.9		
	167.3	29.6	-2.65
	379.6	36.3	
12 40	343.3	65.9	
00			
12 40	114.8		
4	73.2	41.6	
16 40 GMT	290.8	37.6	-2.22
	253.2	79.2	
	113.3		
	70.6	42.7	-2.11
	294.2	40.2	4|9.34
	254.0	82.9	-2.34
12 46			

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1934phae.proj..667

Watch Time Monday - Tuesday August 27-28, 1934
from
Prec Noon Phot T 75 Cygni 21 36 43 FWO Obs Rec

Star brighter 9 dia Group V.

12 58 E.D.S.T. 115.9
72.8
2938
2528

1132
70.4
2955
2530

198.2

Clouds passed over region
Had to stop

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1934phae.proj..667W

Watch Time Thursday-Friday August 30-31, 1934
from
Precision Phad T 75 Cygni 21 3643 FWW Obs Rec

Night VI Van brightn & dis group I

9h 49m EDST 286.2
250.5 37.7 -2.15
107.0 43.7
63.3 81.4 -2.22

286.2
9 54 249.3 36.9 -2.30
00 105.2 39.6
9 54 65.6 76.5
4
13 54 G-MT 374.7
341.7 33.0
193.3 34.4 -2.59
158.9 67.4

-2.40

378.8
339.3 39.5
195.7 40.0 -2.21
155.7 79.5 4 -9.25
9 59 -2.31

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1934phae.proj..667M

August 30-31, 1934

Group II

10h 07m EDST	370.6			
	340.8	29.8	-2.60	
	191.9	37.4		
	154.5	67.2		-2.33
	379.3			
	337.4	41.9		
	196.8	42.3	-2.07	
10 12	154.5	84.2		
00				
10 12	285.2			
4	247.2	38.0		
14 12 GMT	110.1	44.8	-2.12	
	65.3	82.8		
				-2.18
	285.3			
	247.4	40.9		
	106.2	37.3	-2.25	
	68.9	78.2	4|904	
10 17			-2.26	

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1934phae.proj. 667

August 30-31, 1934

Group III

10h 23m EDST 284.7

	247.3	37.4	−2.36
	105.7	37.2	
	68.5	74.6	− 2.17
	289.9	44.6	
	245.3		
10 28	109.3	43.0	−1.98
00	66.3	87.6	
10 28			
4	377.1	42.3	
14 28 GMT	334.8		
	196.1	40.8	−2.10
	155.3	83.1	
			− 2.54
	372.2		
	343.3	28.9	
	189.6	28.0	−2.98
	161.6	56.9	4)−9.42
10 33			−2.35

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1934phae.proj..667M

August 30-31, 1934

Group II

10h 40m EDST	373.8	31.0	
	342.8		−2.84
	190.4	29.5	
	160.9	60.5	
			−2.57
	377.4	38.8	
10 45.8	338.6		
00	194.5	378	−2.30
10 45.8	156.7	76.6	
4			
14 45.8 GMT	110.6	46.3	
	64.3		
	292.2	49.9	−1.75
	242.3	96.2	−1.97
	104.8	37.3	
	67.5		−2.19
	288.3	428	
	245.5	80.1	4 −9.08
10 51.5			−2.27

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1934phae.proj..667M

Watch Line Thursday-Friday September 20-21, 1934
from
Pleiades Phot T 75 Cygni FWW Obs. Rec

Light VII ran brighter & disappears Group I

8h 33m EST 109.3 46.5
62.8 -1.86
290.6 45.7
244.9 92.2 -1.97

Reversed images
107.0 40.9
66.1
290.2 43.2 -2.08
8 37.5 247.0 84.1
00 Reversed phot
8 37.5
4
12 37.5 190.0 27.7
GMT 162.3
370.0 27.7 -3.04
342.3 55.4

Reversed images -2.87
192.3 32.0
160.3
372.1 32.1 -2.71
340.0 64.1 49.69
8 42 -2.42

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1934phae.proj..667

Sept 20-21, 1934

Group II

8 49	373.3	39.1		
	334.2		-2.33	
	190.7	36.3		
	154.4			-2.56
		75.4		
	369.7	31.9		
	337.8			
	188	30.1	-2.79	
8 55.1	158.7	62.0		
00				
8 55.1	105.0	39.8		
4	65.2			
12 55.1 G.M.T.	282.8	38.6	-2.24	
	244.2	78.4		
				-2.20
	108.0	43.9		
	64.1		-2.16	
	282.7	37.4		
	245.3	81.3	4) -9.52	
9 1.2			-2.38	

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1934phae.proj..667M

Sept 20-21, 1934

Very good. Struck

Group III

9 25	97.5	39.7	
	57.8		−2.32
	274.8	36.0	
	238.8	75.7	
			−2.48
	93.6	34.7	
	55.9		
	271.0	31.1	−2.65
9 32.5	239.9	65.8	
00			
9 32.5	143.5	36.5	
4	147.0		−2.40
13 32.5	363.9	368	
G.M.T.	327.1	73.3	−2.32
	185.7	38.9	
	146.8		−2.25
	365.3	39.3	
	326.0	78.2	4)−9.62
			−2.40
9 40			

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1934phae.proj..667

left 20-21, 1934

group IV

9 41	185.5	36.9	
	148.6 RI		-2.39
	361.9	36.6	
	325.3	73.5	-2.50
	183.2	30.8	
	152.4 RI		-2.62
9 50	363.7	35.9	
~~00~~	327.8	66.7	
9 50	Reversed plot		
4	275.3	38.5	
13 50 GMT	236.8		-2.37
	92.8 RI	35.6	
	57.2	74.1	
			-2.31
	274.8	37.3	
	237.5		
	97.0 RI	40.8	-2.25
	56.2	78.1	4)9.63
9 59			-2.41

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1934phae.proj..667M

Sept 20-21, 1934

Group I (cont)

10 11	275.0	40.8		
	234.2		-2.18	
	96.7	39.6		
	57.1	80.4		-2.22
	Reversed images			
	271.5	36.5		
	235.0		-2.36	
10 17.5	95.0	37.9		
00	57.1	74.4		
10 17.5	128	32.7		
4	150.1			
14 17.5	364.7	36.9	-252	
G.M.T.	327.8	69.6		-2.27
	Reversed images			
	1883	42.0		
	1463		-202	
	3680	44.2		
	3238	86.2	4)-9.08	
10 24			-2.27	

Cloudy during this groip (extremely cloudy!)
Clouds probably affect measures somewhat.
Not to be weighted with other measures.

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1934phae.proj..667

Wadde Ivine Tuesday-Wednesday, September 25-26

Ypsomedes Phot T 75 Cygni FWW Obs Ree

Night VIII Var brighter 9 dis Group I

8h 38m EDST	277.3	43.0		
	234.3		-2.03	
	100.7	42.8		
	57.9	85.8		-2.15
	Reversed images			
	274.8	37.5		
	237.3			
8 44.2	98.0	39.6	-2.28	
00	58.4	77.1		
8 44.2	Reversed phot			
4	368.1	41.8		
12 44.2 G-MT	326.3			
	184.9	34.0	-2.32	
	150.9	75.8		
	Reversed images			-2.34
	365.2	36.9		
	328.3			
	188.0	38.1	-2.35	
	149.9	75.0	4)-8.98	
8 50.5 EDST			-2.24	

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1934phae.proj..667M

September 25-26

Group II

8 52 EDST 367.6 38.5
329.1 − 2.52
188.4 31.2
157.2 69.7 − 2.48
Reversed images
366.3 37.3
329.0
8 57.1 185.2 35.0 − 2.43
00 150.2 72.3
8 57.1
4 97.0 37.7
12 57.1 GMT 59.3
278.4 45.5 − 2.10
232.9 83.2 − 2.06
Reversed images
101.3 45.6
55.7
277.5 40.6 − 2.02
236.9 86.2 4|-9.07
9 2.2 EDST − 2.28

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1934phae.proj..667M

Lyr. 25-26

Group III

9 06 EDST	97.0	40.5	
	56.5		-2.04
	279.3	45.0	
	234.3	85.5	
	Reversed images		-2.22
	96.0	38.3	
9 12.8	57.7		
00	273.6	35.4	-2.39
9 12.8	238.2	73.7	
4			
13 12.8 GMT	181.8	31.5	
	150.3		
	362.0	31.7	-2.74
	330.3	63.2	-2.60
	Reversed images		
	185.6	33.3	
	152.3		-2.46
	366.8	38.0	4 | -9.63
	328.8	71.3	-2.41

9. 19.5 EDST

Images did not seem as good as usual for this group.

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1934phae.proj..667M

Sept 25-26

Group II

9 21 EDST	185.3	37.6		
	147.7		-2.49	
	364.1	32.9		
	331.2	70.5		-2.61
	Reversed images			
	180.2	31.2		
9 27.2	149.0			
00	364.8	32.0	-2.74	
9 27.2	332.8	63.2		
4				-2.41
13 27.2	279.3	42.3		
GMT	237.0			
	98.3	41.6	-2.08	
	56.7	83.9		
	R.I.			
	285.2	50.8		
	234.4		-1.70	
	101.7	47.6	4 | -9 01	
	54.1	98.4	-2.25	

9 33.5 EDST

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1934phae.proj..667M

Sept 25-26

Group V

9 52 EDST 94.5 35.8

58.7 ∠RI

271.1 34.9

236.2 70.7 −2.48 −2.46

93.2 33.8

59.4 ∠RI

274.0 37.8

236.2 71.6 −2.45

9 59.5

00

9 59.5

4

13 59.5 GMT

189.9 46.4

143.5 ∠RI

363.3 36.4

226.9 82.8 −2.11 −2.18

184.0 35.1

148.9 ∠RI

366.8 43.1

323.7 78.2 −2.25 −2.29 −2.32

4

10 7 EDST

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1934phae.proj..667M

left 25-26

group VI

10 8 EDST 187.3 43.5

148.8 ⌐RI. 35.5 −2.22

363.5 79.0

328.0 −2.23

183.5 36.0

147.5

10 15 366.4 ⌐RI. 42.5 −2.24

00 323.9 78.5

10 15

4 276.8 40.4

14 15 GMT 236.4 ⌐RI. 38.5

94.3 78.9 −2.23

55.8 −2.32

276.1 38.6

237.5

92.6 ⌐RI 34.0 −2.42

58.6 72.6 4 | −9.11 |

10 22 EDST −2.28

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1934phae.proj..667M

Sept 25-26

Group VII

10 29 EDST 275.0 38.5

236.5 ⌐RI -2.36

93.0 36.0

57.0 74.5 -2.36

271.2 32.2

10 37 239.0 ⌐RI -2.35

~~00~~ 98.0 42.8

10 37 55.2 75.0

4

14 37 GMT 366.8 44.6

322.2

184.8 ⌐RI 359 -2.18

148.9 80.5 -2.23

363.3 35.4

327.9 ⌐RI -2.28

187.7 41.7 49.17

146.0 77.1 -2.29

10 45 EDST

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1934phae.proj...667M

Sept 25-26

group ~~VIII~~

10 48 EDST 187.8 40.5

147.3 -2.39

363.0 ⌐RI. 33.1

329.9 73.6 - 2.24

184.7 38.3

146.4 -208

10 53.5 368.8 ⌐RI. 45.8

00 323.0 84.1

10 53.5

4

14 53.5 GMT 98.8 43.9

54.9

272.3 ⌐RI. 38.0 -2.14

234.3 81.9 - 2.26

95.4 33.5

61.9 -2.39

274.7 ⌐RI. 40.2 4 -9.00

234.5 73.7 - 2.25

10 59 EDST

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1934phae.proj..667

left 25-26

Group IX

11 48 EDST 97.4 41.7

55.7 ∠R.I −2.16

275.3 39.5

235.8 81.2

−2.08

96.8 41.0

55.8 ∠R.I

11 55 278.8 46.1 −1.99

00 232.7 87.1

11 55

4

15 55 GMT 194.5 50.5

144.0

362.8 ∠R.I 31.8 −2.13

331.0 82.3

−2.18

186.8 40.3

146.5

363.2 ∠R.I 38.3 −2.24

324.9 78.6 4)8.52

−2.13

12 2

Moon, high in sky, made the measuring of this group very difficult.

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1934phae.proj..667M

Sept 25-26

group X

12 04 EDST	190.3	49.3	
	141.0		-2.11
	362.7	33.5	
	329.2	82.8	-2.25
	182.2	27.9	
	154.3		
12 13	374.0	45.6	-2.39
00	328.4	73.5	
12 13			
4	97.5	43.5	
16 13 GMT	54.0		
	271.8	35.7	-2.22
	236.1	79.2	
			-2.09
	968	37.8	
	59.0		
	280.2	50.4	-1.96
	229.8	88.2	4 | -8.68
12 22			-2.17

Moon gave same trouble as with Group IX

Could not continue on account of moon. +42° 4164 (Comparison is at very limit of vis.)

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1934phae.proj..667M

Watch Time — Friday–Saturday Sept 28–29, 1934

Prog. from Prec. Nors — Phot T 75 Cygni — FWW Obs Rec

Night ~~XIX~~ Var brightness dis — Group I

$10^h 25^m$ E>ST	270.5	420		
	225.5			
	85.2	39.0	-2.16	
	46.2	81.2		
	R.I ∠			-2.27
	264.0	35.0		
10 28.5	229.0			
00	86.9	38.8	-2.38	
10 28.5	48.1	73.8		
4	Reversed Phot.			
14 28.5 G-MT	177.7	38.7		
	139.0			
	359.2	45.7	-2.07	
	313.5	84.4		
	R.I ∠			-2.21
	174.7	37.8		
	136.9			
	356.0	37.2	-2.35	
	317.8	75.0	4 | -8.96	
10.32			-2.24	

Night is somewhat cloudy

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1934phae.proj...667M

Lyr 28-29

group II

10 36 EDST	177.8	37.0	
	140.8		
	353.3	34.8	−2.45
	315.5	71.8	
	R.I. ⌐		−2.44
	176.2	35.4	
	140.8		
10 40.5	354.0	37.3	−2.42
UO	316.7	72.7	
10 40.5			
4			
14 40.5 GMT	267.3	40.4	
	226.9		
	87.6	40.6	−2.17
	47.0	81.0	
	R.I. ⌐		−2.22
	268.6	39.2	
	229.4		
	85.0	38.0	−2.28
	47.0	77.2	4 | −9.32
10 45			−2.33

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1934phae.proj..667

Sept 28-29

group III

10 49 EDST 260.3 36.6

223.7

80.3 40.0 −2.30

40.3 76.6

R.I. ⌐

259.0 36.7 −2.31

222.3

10 53.5 82.3 39.1

00 43.2 75.8 −2.32

10 53.5

4

14 53.5

C MT

174.1 41.5

132.6

351.4 39.4 −2.17

312.0 80.9

R.I ⌐ −2.25

171.8 39.8

132.0 −2.32

349.1 36.0 4 −9.11

313.1 75.8 −2.28

10 58

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1934phae.proj...667

Sept 28-29

group IV

10 59 EDST	169.0	34.6		
	134.4			
	350.6	38.1		
	312.5	72.7	-2.42	
	R.I.			-2.38
	171.3	37.0		
	134.3			
	351.0	38.2	-2.34	
10 63.1	312.8	75.2		
00				
11 03.1	83.1	40.1		
4	43.0			
15 03.1	261.0	37.8	-2.26	
GMT	223.2	77.9		
	R.I.			-2.17
	80.8	40.6		
	40.2		-2.08	
	263.3	43.4	4 | -9.10	
	219.9	84.0	-2.28	
11 7.2				

Clouds gathered during this group, towards ~~east~~ last half

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1934phae.proj..667M

Sept 28-29

group V

11 15 EDST 43.2 43.2

40.0 −2.07

263.3 41.2

222.1 84.4

RI ⌐ −2.32

76.9 32.9

44.0

259.4 35.3 −2.57

11 19.2 224.5 68.2

00

11 19.2 350.8 36.1

4 314.7

15 19.2 170.6 37.5 −2.39

G MT 133.1 73.6

RI ⌐ −2.40

349.8 35.6

314.2 −2.40

169.0 37.8 4|−9.43

131.2 73.4 −2.36

11 23.5

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1934phae.proj...667W

left. 28-29

group VI

11 27 EDST	352.0	39 8		
	312.2		−2.27	
	171.8	37.8		
	134.0	77.6		−2.50
	R.I.			
	347.6	32.5		
	315.1			
	174.1	31.4	−2.72	
11 30.7	132.7	63.9		
00				
11 30.7	82.7	40.5		
4 3.1	42.2			−222
15 30.7	259.5	37.8	−2.25	
C-MT	221.7	78.3		
	R.I.			
	80.4	37.5		
	42.9		−2.19	
	2642	42.7		
	221.5	80.2	4 −9.43	
11 34.4			−2.36	

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1934phae.proj..667M

left 28-29

group VII

11 44 EDST 80.5 39.2
41.3
264.2 42.4 −2.15
221.8 81.6
RI ✓ −2.14
82.2 38.4
43.8
269.1 43.6 −2.14
220.5 82.0

11 51.4
00
11 51.4 349.3 36.5
4 312.8
15 51.4 167.3 34.8
GMT 133.0 70.8 −2.48
RI ✓
350.8 38.5 −2.37
312.3
172.8 39.2 −2.26
133.6 77.7 4 −9.03
11 58.8 −2.26

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1934phae.proj..667

Mon. Oct. 1, 1934

12" Polar Phot T.

E.S.T. from room

Dimitroff Obs.

watch error = [illegible] Obs.

Balloon 103 = 7 17 00; Watch = 7 17 05 Rec.

S.T. = 19 4 0 at 6 49 E.S.T.

S.T. = 19 5 5 at 7 00

or add 12 5 5 to E.S.T. for S.T.

12 51

R.A. 18 42 05

18 42 - 5.9

20 47

1 35 W

Circle = Ha 1.43 at 20 29 S.T.

Dec (obs'd) = - 5.6

Comp. Star = Star h of Harvard sequence.

Ha 1.37. value C.S. = 7.07

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1934phae.proj..667

Oct. 1, 1934

R Sct

I

C.C. Wo

7 49

169.5 < Vanadis
204.5 < Va Rev. I
345.0
27.4

169.3
203.0
34).8
24.2

260.8
317.0
81.7
141.3

262.4
321.4
76.2

8 00 | 150.0

7 54.5 E.S.T.
12 54.5 G.M.T.
2427712.37 2428 Dec.

35.0
4.24
Imager.
77.4 − 2.27

− 2.38

33.7
3.64
70.1 − 2.50

Rev Plot

mean = −1.80.
C.S. = 7.07
magn − 5.27

46.2
5.96
105.8 — 1.52

− 1.22

59.0
43.8
132.8 − 0.92

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1934phae.proj..667

Oct 1, 1934

II

8:04 — 262.0
319.4
~~14.5~~
~~129.8~~
260.9
328.0

57.4 ~~430~~ 430

67.1
124.5
-1.10

86.0
143.2

57.2
-1.16

251.9
323.0

61.1
118.3
-1.23

Zer Photo
-1.12
7.07
5.95

158.3
224.8

69.5

350.2
38.5

48.3
117.8
-1.24

179.2
219.0

39.8
-1.08

297.2
340.4

93.2
133.0
-0.92

8:19

δ 11.5 EST
13 11.5 G.MT
2427712.549 J.D.

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1934phae.proj..667

Oct 1 - 1934

III

pe

8 21 0.7

458 45.1

1818 41.2

863 − 2.01

2230

− 1.92

0.2

365 36.3

1182 56.6 − 1.84

2248 92.9

Rw Ph − 1.58

823 7.07

5.49

64.9

1472

2665 54.1 − 1.21

3206 119.0

− 1.24

8 27 8188 625

1443 53.6 − 1.28

2662 116.1

3198

8: 24 EST

13 24 GMT

2422712.558 J.D.

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1934phae.proj..667

Oct 1 – 1934

IV

8:29 83.0

~~261~~

127.2

250.6 zer i

319.7

~~75.8~~

144.0

263.4

321.0

zer Photo

239.0

346.8 Cs air

56.0

148.5

329.0

344.2

56.2

164.8

8:38

8:33.5 EST

13 33.5 GMT

2,427,712.565 JD

region almost at N limit at completion

	44.2	
	69.1	
113.3		−1.34
		−1.90
	68.2	
	58.6	
126.8		−1.05

Mean = 1.26

7.07

5.81

	107.8	
	92.5	
200.3		
159.7		−0.39
	115.2	−0.62
	108.6	
223.8		
136.2		−0.85

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1934phae.proj..667

oct 1 1934

S pers 21558

Compared with star C of Harvard sequence Photmetr T

observ GZD

9:20 7/6.5 < comp stor dis.

1'32.6

9:26 142.6

perhaps too faint for unexperienced observer.

RU Cyg 213753

9	30
12	30
22	21
21	37
0	44

comp. star = Hagen 31 = BDm +53°2674

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1934phae.proj..667

Oct 1 1934

9.41

65.0 ∠ Vor dis.

150.5
256.3
322.9

71.2
146.0
244.8
333.8

143.3
248.3
341.0
66.3

153.8
244.5
336.4
74.8

9.54

85.5
66.6
152.1 −0.53

74.8
89.0
163.8 −0.31

Rev. Photo

105.0
85 3
190.3 +0.20
169.7

90.7
98.4
189.1 +0.17

+0.17

T
9.3 D. Obs.

−0.42

Mean = −0.12

9:48.5 E.S.T
14:48.5 G MT
2427712.617 J D

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1934phae.proj..667M

oct 1 1934

9:59

153.5 ver obs 94.0
249.5 109.6
322.4 203.6 +0.43
72.0 157.4

149.5 +0.36
249.5 100.0
328.2 95.8 +0.30
64.0 164.2

ver Photo Mean = +0.02

329.0 hor. obs
70.5 101.5
153.5 96.0
249.5 197.5 −0.33
162.5

332.7 95.5 −0.32
68.2
148.4 101.5
249.9 196.5 −0.31
163.5

10:10
10:4 EST

21

watch error at this morning at 10:17 a m
= 1m 14 fast

Above measures considered only as
experimental (10/2/34)

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1934phae.proj..667

Tuesday Oct 2 - 1934

3 am. F.C. Clk

Regions too far East at this time

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1934phae.proj..667

Wednesday Oct 3 - 1934

12 inch polar Photomic T

EST from room R Sct 18 42 05

RA 18 42 Dec − 5.6 obs GZ Dimitroff

20 20

138 W

∴ too cloudy

W Cyg

21 32 44

21 30 +45.0

20 25

1 05 E

Comp. Star = +44°3865 (HRB 4.21)

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1934phae.proj...667M

oct 3 1934

W Cyg

I

7.33 EST

354.5
7.2
114.5
180.7
318.0
8.5
122.7
178.2

conj dic. 12.7
66.2
78.9 + 2.23

+1.76

50.5
55.5
116.0 + 1.28

ver Phot

40.5
92.0
221.5
271.5

51.5
50.0
101.5 +1.62

C.S. +1.53
4.21
magn var 5:)4

+1.30

28.9
104.0
213.9
268.8

75.1
54.9
130.0 +0.98

7.45
7:39
?

7:37 E.S.T
12:37 GMT
2427714.526 JD

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1934phae.proj..667

74

oct 3 1934

W Cyg. II

7.46

38.8 comp dis 53.6
92.4 56.0
212.7 109.6 +1.43
268.7

28.5 67.7 +1.08
96.2
201.3 72.9
274.2 140.6 +0.76

Mer Phot

+1.13
6.21
[illegible]

~~186.3~~
288.6 77.7
6.3 59.0
128.8 136.7 +0.82
187.8

+1.18

306.0 51.1
357.1 53.3
129.5 104.4 +1.55
176.8

7:52
7:49-2
7:47 E.S.T
12;47 GMT

2427714.533 J. D.

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1934phae.proj...667W

Oct 3 1934

R Sct early

I

18 42
20 55

2 13 W

-5.6

8:00

128.0 v. dis.
184.5
306.2
4.2

56.5
58.0
114.5 -1.31

-1.18

132.0
190.0
306.5
15.0

580
68.5
126.5 -1.05

mean = -09f
7.07
6.09

rv Plot

282.0 (comp. adj.
21.2
94.2
219.1

109.2
124.9
233.1
126.9 -1.04 ~~0.25~~

282.3
24.3
106.0
210.2

102.0
104.2
206.2
153.8 -0.50

-0.77

8:08
8:04 EST
8:02
13:02 GMT

2427714.543 J.D.

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1934phae.proj..667M

Oct 3 1934

R Sct II

8:11

283.7 Comp Dis 103.7
37.4 / * dis
~~77.4~~ 106.9
104.3 210.6
211.2. 149.4 − 0.59

283.7 108.1 − 0.73
31.8 116.4
95.4 224.5 − 0.87
211.8 135.5

Mer Phot Mean = − 0.70
7.07
6.37

119.4 72.8
192.2 71.1
299.7 143.9 − 0.70
10.8

− 0.68

125.5 71.1
196.6 75.1 − 0.65
297.8 146.1
12.8

8:19

8:15
−2
8:13 E.S.T
13:13 GMT
2427714.551

region near western limit of at close of observations

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1934phae.proj..0677

oct 3 1934

Cyg.

W Sgg

III

21 32 ' +45

21 25

07 E

Obs Dec +44.8

8:32 37.5 C.S. Dis.

88.4

212.8

272.4

29.8

90.2

225.4

267.2

Rev. Phot

128.8

8:45 too cloudy.

Ball. 103 watch used

8 49 ... 8 50 47

∴ Subtract 1.8 min. from mean of times

Observations of this night considered experimental

Oct 4-1934

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1934phae.proj..667

Thursday, Oct. 4, 1934

Metis

Circles out & order.

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1934phae.proj...667N

Nov. Obs 8, 1934

Eart
S.T
from
Noon

12ᶜ Polar
R Set
obs 8.39

1 8 4 2 −5.6
2 0 2 2

7.10 Var brighter 1 4 0 W

291.4 ← Var Dis 63.4
354.8 six images 54.2
115.8 117.6
170.0

Images considerably out of focus purposely

1.25
−1.28
1.30

299.0 65.2
04.2 50.0
120.6 115.2
170.6

7.07
−1.02
6.05

Our plot

20.5
89.5 seven images 69.0
194.5 71.3
270.8 140.3

0.77
−0.77
0.77

23.0
86.2 seven 63.2
196.5 77.0
273.5 140.2

7.19

7:14 EST
12:14 GMT
2427719.510 JD

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1934phae.proj..667

R Sct Oct 8 - 1934 II

images somewhat out of focus.

7:23

204.0 v.s dis.
267.2 63.2
12.1 707 +1.90
82.8 1339
203.5 0.83
267.4 63.9
13.2 76.7 −0.76
89.9 140.6 +
rev Plt 7.07
13.6 −0.72
110.4 c.s.dis 6.35
96.8
154.9 134.4 −1.01
289.6 231.5
128.5
352.8 0.62
114.5 121.7
292.5 703 −0.22
2.8 192.0
168.0

7:30

7:26 EST
12:26 GMT

2427719.518 J D

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1934phae.proj..667

R Sct Oct 8 1934

images appreciably out of focus
physically

obs L.C.
Zuc 62

7:32

~~172.5~~
300.0
346.2
120.6
176.8
299.6
354.8
128.6
170.2

7.2
76.2
190.5
260.4

2.2
81.8
193.0
252.2

7:37.5

7:34 EST.
12:34 GMT

2427719.524 JD

v.s dis.

462
562
1026 — −1.60

1.67

552
416
968 — −1.74

Zer. Phot

7.07
−1.24
5.83

690
699
1389 — −0.80

0.80

696
592
1288 — −.80

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1934phae.proj..667

Oct 8 1934

R sct

Images in focus

IV

Obs L.C

Rec GED

7:40	~~104.2~~			
7:42	284.1	r.s. Dis		
	339.2		551	
	98.5		585	
	157.0		113.6	− 1.34
	277.0			+ 1.38
	338.8		611	
	105.4	~~zer Plt~~	492	
	~~96.5~~		103	− 1.41
	154.6			7.07
		zer Plt.		− 1.42
				5.65
	10.7			
	64.9		542	
	197.2		564	
	243.6		106	− 1.40
	11.6			− 1.47
	70.2		546	
	197.2		548	− 1.57
7:46	242.0		103.4	

7:44 EST
12:44 GMT
2427719.531 J D

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1934phae.proj...667

Oct 8 1934

R Sct.

Images inferior als G2D

7:48

355.0	V-S-Dis	
71.2	96.2	
186.6	67.1	
253.7	163.3	−0.71
		+~~0.37~~
		−0.92
6.0		
66.3	60.3	
189.4	61.9	−1.14
251.3	122.2	
		7.07
	Rev Plot	−1.17
		5.90
159.4		
283.6	L.S dis 124.2	
229.4	125.2	
94.6	249.4	−1.40
	110.6	
+6		−1.42
164.4	106.0	
270.4	144.7	
338.5	250.7	−1.43
103.2	109.3	

7:55

7:52 EST
12:52 GMT

2427719.536 JD

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1934phae.proj..667

oct 8 1934

R Lyr

ads G2 D.

2 185243

21 30

18 52

2.38 W 43.8 Dec

8:20

20.8 var high + dis.
66.4
201.2
242.8

25.4
60.5
207.6
243.4
var Phot

119.2
152.4
~~213.4~~
142.2

eye piece out

Comp S. B Lyrae = +44° 3017 (7.1)

HD mag Val 97 6.94

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1934phae.proj..667

oct 8, 1934

R Lyr obs G.D.

8:38

4.2	var bright = dis	II
48.4	44.2	
186.4	40.8	
227.2	84.8	+ 2.06
		− 2.10
10.0	41.2	
51.2	40.3	+ 2.15
191.7	81.5	
232.0	var phot	
		− + 2.18
102.3	37.8	
140.1	44.4	
273.6	82.2	+ 2.18
318.0		
		− 2.26
96.3	35.7	
132.0	37.6	+ 2.40
278.3	73.3	
315.9		

8:45

8:42 EST
13:42 GMT
2427719.571 JD

W 96

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1934phae.proj..667M

oct 8 1934

R Lyr

8:48

102.4 var Dis 29.8
132.2 39.1
276.3 68.9 + 2.54
315.4

98.7 − 2.32
137.1 38.4
277.4 41.0
318.4 79.4 + 2.21

ver Phot

195.4 − + 2.49
220.3 24.9
5.5 31.4
36.9 56.3 + 3.00

184.8 − 2.66
226.8 42.0
12.9 33.6
46.5 75.6 + 2.33

8:56
8:52 E.S.T
13:52 GMT

2427719.578 J D

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1934phae.proj..667

oct 8 1934

R Lyr.

G2D.

IV

8:57

185.9
219.4 var dis 33.5
6.4 40.8
47.2 74.3 2.37

2.35

185.6 41.1
226.7 34.3 2:33
11.6 75.4
45.9 Rev Plat

2.76

279.7
313.0 33.3
100.3 28.9
129.2 62.2 2.78

3:07

281.6 29.2
310.8 18.8
112.7 48.0 3.36
131.5

9:04

9:00 EST
14:00 GMT
24277 19.583 ~~583~~ J D

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1934phae.proj..667M

Oct 8 1934

R Lyr.

GZD.

V

9:06

105.8	var dis	
128.0	22.2	
271.8	330	— * 3.05
304.8	55.2	
		— # 2.90
98.5		
135.7	37.2	
282.9	25.6	
308.5	62.8	— * 2.76
	var Phot	
		— # 2.82
190.3		
222.6	32.3	
7.3	37.5	
44.8	69.8	— * 2.52
*		2.74
186.3	35.3	
221.6	21.8	
14.2	57.1	— # 2.97
36.0		

9:15

9:10 EST

14:10 GMT

2427719.590 JD

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1934phae.proj..667

Oct 8 1934

W Sgg. G2D

21 32 45
22 50
1 1.8 W

21 80
22 55
1 25

18 .32 45

23.00 45
18 32
4.28 W

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1934phae.proj..667M

oct 8 1934

R Lyr

18 52 43

GRD.

VI

23.05
18 52
4.13

~~10:53~~
9:53

V18 var dis
57.8
190.6
271.3
10.0

51.8
198.8
228.3

var Phot

111.2
140.7
281.3
314.7
109.6
141.4
288.0
319.4

10:00
9:56
14:56

2427719.622 JD

57.0
40.7
97.7 + 1.71

41.8 + 2.08
29.5
71.3 + 2.46

mean 2.41

29.5
33.4
62.9 + 2.75

31.8 + 2.74
31.4
63.2

+ 2.74

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1934phae.proj..667

Tues. Oct 9, 1934

E.S.T. 12" Polar Plut T.

(Noon h m

23 50.2 −10.7 Metis (9)

23 50 −10.0

20 50

3 00 E

Comp. * brighter.
"comp * −10° 6206
H.D.
C.S. 224383, Ptm. 7m.83 (60) 7.8
Coffey. Obs.
Howell Obs. Rec.

8:00:11

6.5 C.S. div.

60.0	Rev. Mm.	53.5	
180.0		67.0	
247.0		120.5	+1.18
359.5			
71.0	Rev. Mm.	71.5	+1.07
185.0		59.0	
244.0		130.5	+.97

Rev. Phot.

103.5			Mean = +1.06
150.0	Rev. Mm.	46.5	
264.0		77.5	
341.5		124.0	+1.11
97.0			
165.5	Rev. Mm.	68.5	+1.06
270.0		60.0	
330.0		128.5	+1.01

8:06:20

8:03:16

5: :41 / 13:03:57 G.M.T. J.D. 27720.54444

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1934phae.proj..667

EST From M Oct 9 1934 Metis Howells obs
Cuffey rec.

8-13-52

99.6
148.2 48.6
271.0 61.4 +1.42
332.4 110.0

+1.43

95.7
151.5 55.8 +1.45
274.0 52.8
326.8 108.6

181.6 Mean +1.12
248.6 67.0
355.1 95.1 +0.73
70.2 142.1

+0.79

177.5
247.8 70.3
0.8 63.9 +0.89
8-28-35 64.7 134.2

8: 21: 14
5 41
13: 21: 55 G.M.T.
J.D.: 27720.5568

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1934phae.proj..667

Oct. 9, 1934

Cuffey obs.
+Harold Rec.

8:32:15 182.5 Cs. dia.
244.5 62.0
0.6 63.2 +1.08
64.0 125.2

+1.06

180.2
243.6 63.6
6.2 63.6 +1.04
69.8 127.2

Rev. Phot. mean +1.15

273.8
334.0 60.2
94.0 59.0 +1.21
153.0 119.2

+1.23

274.5
335.0 60.5
100.0 57.0 +1.25
8:37:34 157.0 117.5

54
8:34:41
5

13:35:35 G.M.T.
J.D. 27720.5664

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1934phae.proj..667

Oct. 9. 1935

8:38:17 273.0 Cuffey obs.
334.0 61.0 + Harrold. Rec.
91.0 65.0
156.0 126.0 +1.06

265.0 +1.02
334.5 69.5
96.5 60.5 +0.98
157.0 130.0
Rev. Phot. mean +1.18

4.5
64.0 59.5
182.5 55.0 +1.31
237.5 114.5

+1.33

5.0
65.5 60.5 +1.34
186.0 53.0
8:42:46 239.0 113.5

8:40:32
5 41

13:41:13 G.M.T.
J.D.: 27720.5703

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1934phae.proj..667

Oct. 9. 1935

Cuffey Obs.
Hancock Rec.

8:44:56

	4.0	
	65.6	61.6
	184.0	57.0 +1.22
	241.0	118.6
	0.0	+1.21
	67.5	67.5
	187.8	52.7 +1.19
	240.5	120.2
	Rev. Phot	mean +1.16
	95.5	
	157.0	61.5
	264.0	67.0 +1.01
	331.0	128.5
		+1.12
	97.5	55.0
	152.5	63.0 +1.24
	271.0	118.0
8:48:44	334.0	

8:46:52
5 41

13:47:33 G.M.T.
J.D.: 27720.5747

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1934phae.proj..667

88 min var { 22h 40 +0 zone

Howells obs.
Cuffey rec.

Oct. 9

6-54-25

93.9			
155.9	62.0		
268.0	68.7	+0.97	
336.7	130.7		
		+1.09	
94.3			
156.7	62.4		
274.	57.2	+1.20	
331.4	119.6		
		+0.99	
182.9			
245.2	62.3		
355.5	74.7	+0.83	
70.0	137.0		
		+0.89	
176.0			
247.9	71.9		
4.4	59.3	+0.95	
63.7	131.2		

9 04-39

8:59:32
5 4s

14: 0:13 G.M.T.
J.D. 27720.5835

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1934phae.proj..667M

Howells obs
cuffey rec

Oct 9

9-10-30

187.0		
242.2	55.2	
359.6	71.4	+1.05
71.0	126.6	

175.6		+1.01
251.6	76.0	
5.2	54.6	+0.97
59.8	130.6	

274.8		Mean +1.15
329.2	54.4	
97.0	57.1	+1.29
154.1	111.5	
		+1.26

270.2		
331.6	61.4	1.24
96.3	56.4	
152.7	117.8	

9-21-32

9:16:01
5 45

14:16:42 G.M.T.

J.D. 27720.5949

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1934phae.proj..667M

Oct. 9 Howells obs
Cuffey res.

9-26-25

272.5
325.9 53.4
91.6 61.4
153.0 114.8 +1.31

273.0 +1.25
334.6 61.6
94.5 58.5
153.0 120.1 +1.19

3.7
64.7 61.0 Mean = +1.06
172.7 77.2
249.4 136.2 +.81

355.0 +.84
66.9 71.9
183.6 59.4 +.95
9-36-25 243.0 131.3

9:31:25
5 41

Watch correction:
14:32:06 G.M.T. Balloon 103 Watch
9:40:00 9::39:19

J.D. 2420.6057

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1934phae.proj..667

Oct. 9, 1934.

Cuffey. Obs.
Horrocks. Rec.

9:52:31

5.0		
66.5	61.5	
175.5	64.5	+1.06
240.0	126.0	
0.0		+1.00
64.5	64.5	
187.0	67.5	
244.5	132.0	+.94

Rev. Phot.

95.5		Mean = +1.11
152.5	57.0	
270.5	62.5	
333.0	119.5	+1.20
97.0		+1.22
152.0	55.0	
272.0	63.0	+1.244
335.0	118.0	

9:58:0

9:55:16
5 4,

14:55:57 G.M.T.
J.D. 27720.6222

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1934phae.proj...667M

Oct. 9. 1934

Auffay obs.
Harvard Rec.

19:1:35

96.0		
151.5	55.5	
270.0	68.5	
336.5	124.0	+1.11
93.5		+1.02
161.0	67.5	
274.5	64.5	
339.0	132.0	+.94
Rev. Phot.		
164.5		Mean = +1.17
243.0	58.5	
1.5	64.0	
65.5	122.5	+1.14
187.5		+1.33
247.0	59.5	
10.0	46.0	
56.0	105.5	+1.52

10:12:40

10:07:08
5 41

15:07:49 G.M.T.
J.D. 27720.6305

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1934phae.proj..667

Oct. 9. 1934

EST from Greenw. Sid.

Cuffey obs. Hinckley Rec.

10:10:23

	161.5		
	250.0	68.5	
	356.0	64.5	
	62.5	133.0	+.92
	162.5		+1.03
	246.5	66.0	
	7.0	56.0	
	63.0	122.0	+1.15
	Rev. Phot.		
	275.5		Mean = +1.04
	337.5	62.0	
	92.0	62.2	
	154.2	124.2	+1.10
	269.0		+1.05
	335.2	66.2	
	91.5	63.0	
10:17:10	154.5	129.2	+1.00

10:13:47

5 41

15:14:28 G.M.T.

J.D. 27720.6350

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1934phae.proj..667

Howells obs
Cuffey rec.

Oct. 9

10 24 30

275.4
331.0
93.4
156.1

265.0
336.0
095.1
152.0

Last field

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1934phae.proj...667M

EST from noon
7:00

Wed. Oct 10 1934

cloudy G2D

Fri Oct 12 1934

EST from noon
7.00

cloudy G2D

Sunday Oct. 14. 1934

EST from noon

Clock corrections
Balloon 105 watch J.N.M.H.
7:46:00 7:46:15

Meteor (9)

RA $23^h\ 46'$ δ $-10\ 9$
ST $21^h\ 45'$

$2^h\ 1'$ E.

$9^m.2$

C.G. BD $-10°\ 6196$
H.D. 224020
Ptm. $9^m.9$ (60)

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1934phae.proj..667M

Oct. 17.

Howells

EST

for hour

9:16:16

337.2	dist. dia	
90.6		113.4
152.2		120.6
272.8		234.0
		126.0 + 1.06
334.7		
95.5		120.8
156.0		108.4 +1.01
266.4		229.2
Rev Shot		130.8 + .96
72.9		
167.5		94.6
250.6		102.4 Mean = +.970
353.0		197.0
		183.0 + .32
71.2		
174.9		103.7 +.35
254.8		96.1
350.9		199.8
		160.2 +.38

9:35:00

9:24:38

+5 -15

14:24:23 G.M.T.

J.D. 27725.6003

Assumed c.s. disappeared instead of asteroid, making asteroid brighter.

Nov. 18.

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1934phae.proj..667M

Oct 14

Howells

9:40:15 72.9 < ast. dis
177.0
249.5 ←
356.7

Haze cut off field.

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1934phae.proj..667

Monday oct 15 1934

7:00 EST clondy 838.

8:00 EST cloudy a 2D

Thursday Oct. 16 1934

Clock Correction

Balloon 105 Watch

6 ~~34:00~~ 34:00 6 34:10

22 30

20.45

1.45 E

88-min Variable δ +0.8

α 22h30

Abandoned: moon too bright for faint variable. Try 15".

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1934phae.proj..667M

EJT from Tuesday Oct 16-17, 1934
Oh

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1934phae.proj...667M

Time

Wednesday, Oct. 17, 1934.

12" Polar Photo. T

Obs. G.Z.D

Rec. M.A.D.

No watch- used sidereal time

~~R. Sct.~~ 184205
2130
~~2:48 W~~

I

R. Lyra 185243
2200
3:8

var brigest + disappears

10:03
8:7 EST

87.1
125.4 38.3
rev. images
257.9
309.2 51.3
89.6

-1.92

80.2
130.2 50.0
rev. images
154.6
~~310.~~ 239.5 84.9
134.9

-.88

Rev Photo.

38.9
169.8 130.9
rev. images
215.8
356.2 140.4
271.3

-1.95

10:12
8:16 EST

35.2
181.7 146.5
rev. im.
223.5
1.6 221.9
368.4

moon too brigest

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1934phae.proj..667W

Oct 17- 1934

II

R. Lyra

var brigeter

10:18 275 var dis

8.22EST 310.6 rev inn 35.6

-1.90

85.5
140.4 54.9
90.5

251.2 60.1 -1.77
311.3 rev inn

9.0.4
130.9 40.5 -1.64
Rev Photo 100.6

-2.04

7.7
40.3 rev inn 32.6
180.0
223.9 43.9 -2.30
76.5

1.0 -2.32
40.6 rev inn 39.6
187.5
223.2 35.7 -2.34
75.3

10:23
8:27EST

moon too brigeat

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1934phae.proj...667M

Saturday Oct 20. 1934

Θ 21 50.0 δ = +36° 20'
α = 2h 13.0
+ 19h 37
4h 23 E Bamberga (324)

Clocks corr.
Balloon 105 Watch
8:04:00 8:03:36

Not to be found.

Metis 23h 41.8 δ −10 55
8.2 (S.SD −10° 6176
+D 223508 Dtm. 9m.2, (A2)
Metis C.S. (95) 23h 42.0 −10° 25'
moon bright
images barely visible

10-27-05 345.7 Last dis.
61.1 75.4
168.4 69.6 −.67
238.0 145.0

Time 10:35:20
+ 5 25 342.0 71.0 81.5
15:35:45 GMT. 65.5 83.5 152.5 89.0
JD 27731.6498 166.2 70.8 −.49 246.0 170.5
237.0 154.3 335.0 −.18

Clocks corr. Mean = −.41 67.3 87.1
Balloon 105 Watch 154.4 87.0
11 57.00 11 56:35 249.3 164.1
10-43-35 336.3 −.30

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1934phae.proj..667M

Monday oct 22 1934

open night G2D.

Wednesday oct 24 1934

open night G.Z.D.

Thursday Oct. 25 1934

Metis (9)
R.A. 23h 35.7 δ −10° 55'
S.T. 21h 46

H.A. 1h 47.7 E.

7-20-54 Ballon 19-21-0

Metis too faint — Hagos.

Friday oct 26 1934

G2D.

open night

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1934phae.proj..667N

Monday, Oct. 29, 1934

12" Polar Ballon h 7 m 28 s obs. G.D.D
watch 7 28 07 rec. M.A.D

8:10 cloudy

Wednesday oct 31 1934

7:00 GDD

cloudy

Friday Nov 2 1934

ballon 19 08
watch 7 10 00

12" polar Photometry +

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1934phae.proj..667W

Friday Mar 2 1934

ballon 1908
watch 7 10 EST from noon G<D

R. Asc ST
18 52 43.8
22 19
3:27 W

observed Dec 42.8

7:45 Vor bright and dis I

119.3
147.0 Vor dis.
295.8 rev images
327.5

113.3
150.4 rev images
299.0
326.0

rev Phot.

203.7
239.3 rev images
420.3
61.2

207.6
241.8 rev images
7:57 24.8
55.1

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1934phae.proj..667

Nov 2 1934

II

R Lyra

Var brighter and dis

8:00

75.2 var dis
106.3 rev im

250.0
290.0

99.2
107.7 rev images

252.8
286.4 rev Phot

159.2
198.4 rev im

340.2
19.2

160.8
195.2 rev im

348.5
15.7

8:10

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1934phae.proj..667W

Nov 2 1934

III

R Lyra

8:11

339.8 Ver dis
22.6 ver im
160.2
202.2

343.4
17.8 ver im
164.8
198.8 ver Phot

74.2
110.5 ver im
254.8
289.4

72.5
111.6 ver im

8:19

246.6
289.8

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1934phae.proj..667M

Nov 2 1934

R Lyra

IV

8:20

~~290.3~~ vg dis

69.4

110.3 rev im

254.0

286.0

67.4

110.6 rev im

252.5

284.9 rev Phot

158.5

198.5 rev im

343.1

17.8

162.8

201.2 rev im

343.8

8:29 22.0

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1934phae.proj..667W

Nov 2 1934

8:30 W Cyg

21 32 44.8

Found region Photometer can not reach comp. Star

9:00 Back to R Lyra

Nov 5 1934

cloudy

Nov 7 1934

open night

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1934phae.proj.667M



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1934phae.proj..667w

Feb 20-21, 1935

Photometric; T.E.S. obs.

Feb 21, 10h 36m EST

297 82. (TX Ursae Maj. & Comp. * to N.
19 89
125
214 171 0.17
322

9 47 ~~10.5~~ 1.03
139 44
183 91 1.89

107
218 111 .71
293 106 0.67 1.2 & .7
~~35~~ ~~147~~ 143 The comparison
54 star used for TX
98 44 Ursae Maj. is the
230 49 .53 next star to the
279 93 N. (12" telescope)

0h 50m

59 35 cS = the fainter
94
225 45
270 80

210
290 80 Sky clear, Moonlight.
38 73
111 153 2.19 1.36
.52
304 87 1.25
31
129 77 .30 1.14
206 164 1.97

321
7 46
141 42
183 88

1h 0m

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1934phae.proj..667

1h00m	17	123		
	140			
	191	131		
	322	254		
		106	1.51	
	119			
	201	82		.81
	305	92	.11	
	37	174		
	217			1.12
	297	80		
	46	66	.65	
	112	146		1.44
	59	40		
	99	39	2.22	
	235	79		
	274			
1:10				
	95	137		
	232	135		
	275	272	1.97	
	50	88		
	230	67		1.38
	297	72		
	39	139	.79	
	111			
	301	70		
	11			1.27
	125	85	.48	
	210	155		
	328	37		1.16
	5			
1:15	128	56	1.83	
	184	93		

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1934phae.proj..667M

using a star west to
TX Cas 17 obj. Δcomp (N)

Feb 21, 1935

$0^h 43^m$	$1^m.15$ ✓
55	1.24 ✓
1 05	1.12 ✓
1 12	1.27 ✓
4 | 3 55	
Mean $0^h 59^m$	$1^m.20 \pm 0^m.04$ (m.e.)

25
36
64
49
2 \| 174
14.5

TES.

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1934phae.proj..667

Saturday Mar. 16 1935

Nova Heraclis, 12" Polar, flat T.
ca. BD+46°2426, 7m.41 JNM+HOlb

17:01:50

352.1
6.6 14.5
170.3 19.9
190.2 34.4 -4.10

350.2 -4.14
9.3 17.1
172.7 16.1
188.8 33.2 -4.16

Rev. flat
74.1 Mean -3.44
107.2 33.1
251.9 34.3 -2.59
286.2 67.4

-2.74

73.8
104.8 31.0
253.6 28.3 -2.89
17:16:20 281.9 59.3

Sky lightening a little at end

Clocks are:
Ballou 103 Watch
15:27:30 15:27:35

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1934phae.proj..667

Tuesday, Mar. 19, 1935

Clocks corr.

Pond on 103 — Watch

EST — ≠ 16:00:00 — 16:00:09

Division — Nova Herculis, 12" Polar., Phot. T

cs. BD +45° 2662, 6m.5, JNMH Obs.

16:46:40	71.3		
	100.9	29.6	
	255.2	17.6	-3.40
	272.6	47.2	
			-3:40
	75.6		
	95.4	19.8	
	251.9	27.7	-3.39
	279.6	47.5	
	Rev plot.		
	168.9		Mean -3.85
	185.5	16.6	4m.7
	347.4	14.9	
	2.3	31.5	
			-4.30
	166.7		
	183.4	14.7	
	345.0	16.4	
9:3:50	1.8	31.5	

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1934phae.proj..667M

MAR 19 1935

EST

from chron

Nova Her JNMH

17:05:00	168.6	16.5	
	185.1	15.7	-4.25
	353.7	32.2	
	4.4		-4.22
	167.6	15.6	
	183.2	17.3	-4.20
	346.2	32.9	
	3.5		
	Rev plot		Mean -3.82
	74.5		4M.7
	96.9	24.4	
	254.4	21.0	-3.49
	275.4	45.4	
			-3.42
	75.1		
	96.6	23.5	
	252.8	24.5	-3.36
17:16:35	277.3	48.0	

Images very faint.

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1934phae.proj..667W

Thursday, March 21, 1935

EST Nova Herculis, 12" Polar, Ph.T.
fr. Iron cf. BD 45° 2662, 8m.5 JNMH obs.

16:02.35 35.1
55.6 20.5
211.7 29.5 -3.27
241.2 50.0

-3.20

32.8
64.0 31.2
214.2 21.7 -3.14
235.9 52.9
Rev. plot. Mean -3.80
130.5 44.7
144.7 14.2
306.2 16.0 -4.39
324.2 30.2

128.6 -4.36
145.8 17.2
310.7 13.3 -4.37
16:20.25 324.0 30.5

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1934phae.proj...667M

MAR 21 1935

EST Nova Her JNMH

from noon

16:28:09

309.6

322.9 13.1

130.0 15.7 -4.49

145.7 28.8

-4.48

337.4

325.4 16.0

129.9 13.5 -4.30

143.4 31.5

Rw. flt. mean -3.84

4m.7

34.9

57.2 22.3

211.7 27.9 -3.26

239.6 50.2

-3.28

31.9

59.7 27.8

16:40:55 214.9 21.3 -3.31

236.2 49.1

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1934phae.proj..667f

MAR 21 1935

EST Nova Her JNMH

16:44:50 353

57.9 22.6

211.8 250.4 -3.23

240.2 51.0

-3.21

32.7

62.9 30.2

215.0 21.6 -3.19

236.6 51.8

Rev. flat. Mean -3.86

130.5 4.4.6

143.5 13.0

308.9 14.8 -4.57

323.7 27.8

-4.52

130.3

145.1 14.8

310.0 14.4 -4.46

16:59:45 324.4 29.2

Clock corr.

Balloon 103 Watch

17:21:30 17.22:43

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1934phae.proj..667

Sunday Mar. 24. 1935

EST from watch

Nova Herculis, 12" Rylan.

cf. BD +45° 2662, 8m.5

JNM+Hoag.

15:56:10	219.6		
	233.7 ✓	14.1	
	40.9	12.7	
	53.6	26.8	4.65
	220.6		4.60
	231.9 ✓	11.1	
17.1	39.2	12.0	
	56.2	28.1	4.55
	Rev. plate.		
	309.1		4.77
	323.2 ✓	14.1	
	332.6	9.4	
	142.3	23.6	4.94
	312.0		4.94
	321.8	9.8	
	310.0 ✓	13.8	
16:45:20	323.8	23.6	4.94

Hazy

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1934phae.proj..667W

MAR 24 1935

EST Nova Her JNMH

focus

16:24:05 130.1

144.3 142

311.5 111

322.6 253 4.78

130.9

142.5 116 480

310.2 133

323.5 249 4.81

Refl.

216.0 4.61

234.7 167

40.5 129

53.4 296 4.43

219.5 442

232.8 133

38.7 165

16:44:10 55.2 298 4.42

Haig

1934phae.proj...667

130

MAR 24 1935

EST

from noon Nova Her. JAN 4 H

16:42:55

217.3
233.0 ←
41.0
54.1

157
131
28.8 449

219.0 440
232.5 ←
40.2
57.9

135
117
31.2 432

Sun. fl.s. 4.59

310.1
324.0
130.0 ←
141.9

139
119
259 4.13

311.2 4.78
324.1 ←
130.3
142.0

129
117
246 4.84

16:56:40

Hazy dawn, images just visible at end.
Cloudy cumi
Balloon 103 Watch
17:00:00 17:07:17

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

1934phae.proj..667W

Monday, March 25, 1935

EST

BD +46° 2426 – BD +46° 2662

f. vision

12" Polar, Phot T. JNMH obs.

Phot: 350° × 12.5

Clock corr: Ballon 103, 11:40:00, Watch 11:41:22

15:41:10

194.9 2426 brighter and dis.

250.8 ← 55.9

10.9 72.8 −1.00

83.7 128.7

−1.02

159.5

259.7 ← 70.2

16.3 57.1 −1.04

73.4 127.3

Rev. flat Mean − 1.44

296.2

336.3 ← 40.1

110.0 54.2 −1.80

164.2 94.3

−1.86

290.5

339.8 ← 49.3

117.0 40.0 −1.93

16:02:30 157.0 89.3

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1934phae.proj...667M

MAR 25 1935

EST

f. mean

BD +46° 2426 and +45° 2662 JNMH

16:03:35

293.8

336.9 43.1

110.9 50.8 -1.81

161.7 93.9

-1.88

290.2

339.9 49.7

116.9 38.5 -1.96

155.4 88.2

Rev. plate Mean -1.42

16.2

72.6 56.6

165.6 75.0 -0.95

260.6 131.6

-0.95

10.8

81.6 71.0

16' 195.7 60.2 -.95

16:19:25 255.9 131.2

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1934phae.proj..667M

Thursday March 28, 1935

Nova Herculis 12" Prism, Plate T.
EST c.s. BD +45° 2662 JNMH Obs.
for work

16:04:20	39.9		
	55.8 ←	15.9	
	216.2	21.5	
	237.7	37.4 –	392
	33.9		376
	61.3 ←	27.4	
	215.0	15.8	
	233.8	43.2 –	360
	Run plate.		
	130.4		411
	141.8	11.4	
	307.6 ←	16.9	
	324.5	28.3	453
	126.6		446
	146.7 ←	20.1	
	312.0	10.2	
16:19:45	322.2	30.3	438

Rec. light two light.

Changed.

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1934phae.proj...667M

MAR 28 1935

EST Nova Her JNMH

from notes

16:24:50

129.7		
142.2	125	
309.5	155	
325.0	280	45.5
		4.48
128.7		
146.6	179	
312.0	122	
324.2	301	4.40
Run for D.		Mean = 4.09
217.0		
235.3	179	
32.7	246	
57.5	427	3.62
		3.70
215.5		
235.8	233	
37.6	163	
16:40:10 53.9	396	3.79

Clock am:
Balloon 103
16: 45:00

Watch
16: 47:49

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1994phae.proj..667W

May 19

EST — Nova Her, 12" Polar Tel., Phot. T.

from com — c.s. BD +45° 2662, UNMT Obs.

Spectrat 7.4

14:47:50	107.4		
	162.2	54.8	
	295.0	42.8	+1.72
	337.8	97.6	
	109.7		+1.70
	158.6	49.1	
	293.2	50.0	+1.68
	343.2	99.1	
	Rev. plate		Mean + 1.31
	191.0		
	261.5	70.5	
	16.5	61.3	+ .94
	77.8	131.8	
	192.7		+ .92
	254.4	61.7	
	11.5	72.5	+ .89
15 May 15:05:20	84.0	134.2	

Bright moon

Clock com.:

Balloon 103 — 15:20:30

Watch — 15:20:15

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1934phae.proj...667M

Monday, May 20, 1935

Nova Her. 12" polar tel., phot. T.

EST cs P.D. +45° 2662, JNMH obs.

+.4 sec

13:04:15 289.5 cs. div.

343.9 54.4

116.0 42.4 ± 1.74

158.4 96.8

Rev fl. Mean + 1.19

12.0

51.4 69.4

188.7 77.3 +.64

13:11:10 266.0 146.7

Through light clouds

11b

13:14:30 5.1

87.6 82.5

194.5 63.2 +.66

257.7 145.7

Rev fl. Mean + 1.12

114.4

159.3 44.9

287.0 58.8 +1.57

13:24:00 345.8 103.7

Cloudy, light snow

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1934phae.proj..667M

MAY 20 1935

EST

fr. mean Nova Her JNMH

B 1:30:10 256.1

343.5 55.4

115.0 45.0 +1.65

160.0 100.4

±1.68

294.9

341.0 46.1

110.9 51.8 +1.71

~~10.~~ 162.7 97.9

Rev ft. mean ±1.18

5.0

56.2 83.2

193.7 65.3 + .60

259.0 148.5

+.68

15.4

78.0 62.6

186.8 78.7 +.75

B 1:47:40 265.5 141.3

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1934phae.proj...667M

Wednesday, May 22, 1935

EST
fr. noon

Nova Her, 12" f. plan tel., Int. T.
c.s. = PD +45° 2662 JNMH obs.

11 00 30

99.7 < cs dis.
174.6 < 74.9
291.9 47.5 +1.14
339.4 122.4

+1.21

~~291.8~~
~~114.6~~

342.2 < 50.4
103.9 65.7 +1.28
169.6 116.1

Res. fl.s mean = +.90
5.6

88.6 < 83.0
194.5 58.5 +.74
253.0 141.5

+.58

18.5
97.0 < 78.5
186.3 79.7 +.42
11 16 20 266.0 158.2

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1934phae.proj..667

May 22

Nova Her JWMH

11 22 15	184.2	82.6	
	266.8 ←		
	16.7	62.2	+.68
	78.9	144.8	
			+.66
	190.6		
	254.9 ←	64.3	
	~~266.8~~ 6.4	83.1	+.63
	89.5	147.4	

Rev. plot. Mean = +.97

	101.1		
	~~283.0~~		
	171.3 ←	70.2	
	112.1	46.9	+1.26
	~~279.5~~		
	159.0	117.1	
			+1.28
	292.6		
	343.6	51.0	
	103.7 ←	64.4	+1.29
11 42 15	168.1	115.4	

Clocks corr.

Balloon 103	Watch
12:06:30	12:06:02

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1934phae.proj..667M

Thursday, May 23, 1935

EST — Nova Her, 12" Polar tel.; Phot T.

from noon — c.s. = P.D +45° 2662, UNM++ Obs.

10 56 50

279.8 ∠ 4.3 dis.

349.5 ∠	69.7	
109.6	49.2	+1.22
158.8	118.9	
		+1.24

288.9

342.7 ∠	53.8	
104.3	62.7	+1.27
167.0	116.5	

Rev. phot — mean = +.86

1.0

90.5 ∠	89.5	
192.0	67.0	+.45
259.0	156.5	
		+.48

12.4

83.2 ∠	70.8	
184.1	83.1	+.50
267.2	153.9	

11:15:00

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1934phae.proj..667N

MAY 23 1935

EST Nova Her JNMH.

for noon

11:18:30	2.6		
	91.2	88.6	
	194.9	61.2	+.58
	256.1	149.8	
			+.55
	12.7		
	79.2	66.5	
	163.7	86.4	+.52
	270.1	152.9	
	Rev. flat.		Mean = +.60
	99.8		
	166.3	66.5	
	289.5	57.0	+1.07
	346.5	125.5	
			+1.06
	103.8		
	161.9	58.1	
	281.4	68.3	+1.05
11:36:20	349.7	126.4	

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1934phae.proj..667

MAY 23 1935

EST

Nova Her JNMH

11:46:50 280.9

351.9 71.0

106.8 52.9 +1.11

161.7 123.9

+1.12

281.2

344.9 57.7

100.5 65.7 +1.12

166.2 123.4

Rev. flat. Mean +.53

5.7

66.2 60.5

186.0 71.9 +.53

257.9 152.4

+.54

9.8

80.3 70.5

169.1 81.2 +.54

12:06:30 270.3 151.7

light and interruptions

Clock corr:

Balloon 103 Watch

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1934phae.proj.667

Friday, May 24, 1935

EST fr. noon — Nova Her, 12" folan tel., Phot T. C.S. = BD +45° 2662 JNMH Obs.

10:35:15

251.2 N.S. dif.

351.4	70.2	
106.3	53.0	+1.12
161.3	123.2	
		+1.05

287.0

345.9	56.9	
99.2	70.9	+.98
170.1	129.8	

Rev. plot. Mean = +.68

2.0

95.4	93.4	
168.2	72.2	+.27
260.4	165.6	
		+.31

9.9

81.8	71.9	
179.3	89.8	+.35

10:50:30 — 269.1 — 161.7

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1934phae.proj..667

144

MAY 24 1935

EST Nova Her JNMH

fr. noon

10:56:40 0.7

94.0 93.3

188.9 69.4 +.33

256.3 162.7

+.28

9.4

83.2 73.8

179.1 93.5 +.24

272.6 167.3

Ru. plate mean = +.62

97.8

173.5 75.7

269.5 53.2 +1.00

342.7 128.9

+.97

108.2

162.2 54.0

275.3 78.1 +.94

11:16:00 353.4 132.1

Clock corr:

Ballou 103 Watch

11:31:00 11:30:17

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1934phae.proj..667N

Sunday, May 26, 1935

EST — Nova Her. — 12" [illegible], phot. T.
fr. noon — cs = BD +45° 2662 — JNMH Obs.

12:22.10

279.9 [illegible] dir

350.8 <	70.9	
101.9	68.9	
170.8	139.6	+ 0.78

346.0 < nova dir

102.7 <	114.7	+ 0.79
173.3	106.8	
280.1	221.5	+ 0.80
Rev. phot	138.5	

357.0 cs dir — Mean + 0.44

96.6 <	97.6	
183.6	77.4	
261.0	175.0	+ 009

8.6

		T 00f
64.2 <	75.4	
174.5	102.2	
276.7	177.6	+ 006

13:57

7.9
139
13 10.

Very much set into by business of running the cameras.

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1934phae.proj...667

MAY 26 1935

EST

from noon Nova Her JNMH

14:21:40	0.0		
	92.0	92.0	
	182.5	83.5	+.08
	266.0	175.5	
			mean +.52
	107.0		
	163.9	56.9	
	260.6	73.5	+.97
14:30:20	354.3	130.4	

Clocks corr.

Balloon 103	Watch
15:23:00	15:22:10

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1934phae.proj..667

Wednesday, May 29, 1935

EST Nova Herculis, 12" folan tel., Ph.r.T.

from cs = BD +45° 2662 JNMH obs.

12.22.15

274.2 cs. dir

354.4 80.2

100.1 65.9 +.65

166.0 146.1

+.64

281.5

349.6 68.1

96.9 78.6 +.64

175.5 146.7

Ref. plate. Mean = +.24

352.0

97.8 105.6

181.2 84.1 −.19

265.3 189.9

170.1 −.16

1.1

85.1 84.0

172.5 102.5 −.12

12.46.45 ~~255.5~~ 275.0 186.5

173.5

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1934phae.proj..667

MAY 29 1935

EST

from WWW Nova Her JNMH

12:55:30 3:54.9

92.6 97.7

181.0 83.3 −.02

264.3 181.0

Res. flat. 179.0 Mean = +.26

101.0

169.2 65.2

~~3072~~ 271.4 84.2 +.53

13:05:30 ~~355.6~~ 152.4

Clock on:
Pallon 103 Watch
13:23:00 13:22:52

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1934phae.proj..667

Saturday, June 1, 1935

E.S.T. 12" Pilar tel., Phot. T.

p. noon Nova Her. J.N.M.H. Obs.

$\alpha_s = 18^h 50^m 45^s.2662$

10:47:10 83.8 c.s. div.

180.9 < 97.1

276.6 77.1 + .71

353.7 174.2 + .09

95.1

169.1 < 74.0

264.4 102.4 + .07

6.8 176.4

Dec. plot

169.8 Mean = −.13

282.2 112.4

1.1 < 85.4 − .34

86.5 197.8

162.2

179.1 −.35

265.3 < 86.2

348.5 112.7 − .36

11:01:10 101.2 198.9

161.1

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1934phae.proj..667

MAY 30 1935
JUN 1 1935

EST

Nova Her JNH 4

11:04:40

169.1 c.s. Qo
279.4 < 110.3
359.1 91.8
90.9 202.1

157.9 −.42

181.8
267.6 < 85.8 −.42
347.8 115.6 −.41
103.4 201.4

Res fht 158.6 Mean = −.14

261.4 X
5.8 < 104.4
97.9 71.8 +.07
169.7 176.2

+.14

280.8
350.0 < 69.2
86.3 99.0 +.22
11:18:30 185.3 168.2

Clock err:
Ballon 103 Watch
11:36:00 11:35:55

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1934phae.proj..667

Tuesday, June 11, 1935

Nova Herculis 12" folan tel. - Phot. T.

EST

h. m. s. us BD +45° 2662 UNMH OG.

12:23:30 191.6 nova dir

257.1 65.5

2.7 87.6 -.51

90.3 153.1

-.45

175.2

267.8 92.6

12.8 66.9 -.39

79.7 159.5

Rev. phot. Mean = -.74

291.4

341.4 50.0

92.4 77.2 -1.04

169.6 127.2

276.5 -1.04

351.2 74.7

107.2 52.6 -1.03

160.0 127.5

12:47:20

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1934phae.proj..667

JUN 11 1935

EST Ursa Her JNM tf

from noon

12 49 40 288.7

3356.8 50.1

99.0 93.5 -1.11

172.5 123.6

-1.09

279.2

352.7 73.5

107.7 52.1 -1.07

159.8 125.6

Rev. fl. t.

mean = -.64

14.5

76.2 61.7

149.5 85.5 -.63

265.0 147.2

-.60

6.2

55.2 79.0

155.1 71.1 -.57

12, 05:30 259.2 150.1

Clouds over Ballon 03 watch

15:20:30 13:19:49

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1934phae.proj..667N

Thursday, June 13, 1935

EST — Nova Her — 12" Polaris, Dunsink

for hour — cs RD +45° 2662 — JNM H

14 ~~32~~ — ~~6.9~~ Cloudy.
~~47.9~~

13:39:10 — 355.7 nova dis
92.2 — 96.5
190.0 — 67.6 — -.30
257.6 — 164.1
— -.35
11.4
74.6 — 63.4
178.8 — 95.6 — -.40
274.4 — 159.0
Ref/Hor. — Mean = -.85
100.6
171.1 — 70.5
294.6 — 41.9 — -1.36
336.7 — 112.4
z — -1.35
157.5 cs. dis
293.6 — 136.3
346.8 — 110.2 — -1.34
13:55.00 — 99.0 — 246.5
113.5

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1934phae.proj..667M

JUN 13 1935

EST Nova Her JNM+f

from noon

14 00 20 281.0

347.7 66.7

115.0 41.3 −1.46

156.3 108.0

−1.44

294.6

337.2 42.6

99.9 66.9 −1.43

166.8 109.5

Rev. plot: mean = −.91

358.1

89.0 92.9

192.0 65.0 −.42

257.0 157.9

−.38

14.1

80.4 66.3

174.3 96.1 −.34

14 14 30 270.4 162.4

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1934phae.proj..667M

Saturday, June 15, 1935

EST
p.noon

Nova Her.
cs. BD +45° 2662
Clock on:
Ballou 103
8:11:00

12" folertel. Phot. T.
JNM+H obs.
H.V.P. Rec.
Watch
8:09:20

10:00:58 186.2 nova dir.
260.0
356.3
91.5 169.0 021

179.0 026
270.9
9.2
81.0 163.7 031
Rev. flat. - 086
291.4
335.8
106.1
167.0 105.3 1.53

281.5 1.46
345.6
112.8
10:14:01 158.7 110.0 1.42

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1934phae.proj...667

JUN 15 1935

EST
from noon

Nova Her

JNM+HSD.
+HJP Rec.

10:15:17

291.1 nova dir.
337.5
106.5
166.2 106.1 .151

280.2
349.0 1.45
113.8
156.4 111.4 1.39
Ref. fl.t.
14.8 -0.90
80.6
175.5
270.8 161.1 -0.36

358.8 -0.36
91.5
189.4
10:25:43 257.4 160.7 .037

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1934phae.proj..667W

JUN 15 1935

Comparison between JNM Obs.
EST BD +45°2662 and +46°2426 HJP Rec.
for noon

10:38:28 186.6 2426 dec.
260.8
18.0 <
72.8 129.0 -1.00

196.0 -.95
248.6
2.9 <
84.2 133.4 -.90
Rev. shot.
287.2 Mean = -1.48
338.2
117.7 <
152.8 86.1 -2.02

295.3 -2.01
332.6
112.0 <
10:52:15 161.5 86.8 -2.00

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1934phae.proj..667M

JUN 15 1935

EST — BD +45° 2662 — JNMH Obs.
from noon — and +46° 2426 — +JP Rec.

10:54:40 — 288.0 — 2426 Dif.
342.6 <
117.2
150.7 — 58.1 — −1.96

295.2 — −2.00
331.4
110.6 <
159.6 — 65.2
Rim flat. — −2.05
8.0
84.0 — Mean −1.46 <
194.2
251.9 — 133.7 — −.90

19.0 — −.92
71.1 <
184.3
11:05:10 — 263.6 — 131.4 — −.95

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1934phae.proj.667

JUN 15 1935

EST from noon

Comparison between BD +45° 2662 and c (see 15" record for June 13)

JNMH Obs. HJP Rec.

11:30:38	277.9 2662 dir.		
	353.1		
	110.2		
	166.7	131.7	−.94
	283.9		−.95
	341.9		
	98.1		
	171.0	130.9	−.96
	Rev. flat.		
	356.7		Mean = −.45
	92.8		
	182.8		
	264.8	178.1	−.03
	1.7		Mean +.05
	87.1		
	176.7	183.7	
11:48:40	275.0	176.3	+.07

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1934phae.proj..667

JUN 15 1935

EST
from noon

Same

JNH H Obs
HJP Rec

11:44:35	951.6		
	94.5		
	186.0	183.6	
	266.9	176.2	+.07
	2.5		+.06
	86.0		
	174.6	184.4	
	275.5	175.6	+.06
	Rev. plt		
	95.2		Mean = -.40
	173.9		
	285.7		
	941.3	134.3	-.89
	105.3		-.88
	163.9		
	277.2		
11:55:32	354.1	135.5	-.87

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1934phae.proj..667

JUN 15 1935

EST
from noon

Same

JNMH obs
+ HP Rec.

12:09:20 97.7 2662 dis.
172.2
284.2
342.6 132.9 -.92

104.4 -.93
165.2
277.3
348.3 131.8 -.94
Rev. fl. tr.

177.3 Mean = -.50
272.2
3.4 181.1
89.6 178.9 +.02

187.1 -.06
264.5
356.5

12:21:46 92.0 172.9 -.13

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1934phae.proj...667

Sunday, June 16, 1935

EST from noon — Nova Her — 12" Pilan tel., phot. T.

cs. = BD +45° 2662 — JNMHFGlx.

9:08:00	6.7 nova dis		
	82.4 ✓		
	161.2		
	265.0	159.5	-.39
	5.2		-.41
	86.9 ✓		
	185.2		
	261.2	157.7	-.43
	Rev. phot.		
	111.7		
	157.8 ✓		mean = -1.04
	265.1		
	340.1	101.1	-1.63
	~~154.4~~		
	156.4		-1.68
	164.0 ✓		
	288.4		
9:20:00	339.8	97.0	-1.73

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1934phae.proj..667w

JUN 16 1935

Nova Her INMH

9:31:50	110.4		
	159.6 ←		
	287.7		
	341.2	102.7	-1.59
	109.5		-1.61
	160.5 ←		
	289.9		
	339.8	100.9	-1.63
	Ref. pt.		
	186.5		Mean = -.98
	264.0 ←		
	4.7		
	86.7	159.5	-.39
	178.8		-.36
	267.0 ←		
	7.0		
9:44:00	81.6	162.8	-.33

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1934phae.proj..667M

JUN 16 1935

Comparison between JNMH
BD +46° 2426 and 2416

14:26 −349.8 2416 dia. {2416 − 2426 = }
96.6
164.5 228.4
286.1 −131.6 + .95

341.3 + .89
105.2
176.2 222.6
274.9 137.4 + .83
Rev. shift.
106.2 Mean = + .50
173.8
265.4
5.0 167.2 − .24

85.7 − .10
184.0
273.2 181.5
14:45 356.4 178.5 + .03

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1934phae.proj..667

Saturday, June 22, 1935

EST Nova Her. 12" folanted., Phot. T.
f. moon cs. = BD 145° 2662, UNM H obs.

11:59:10 11.9 nova dis.
75.6 ←
189.4
264.0 136.3 -.61

4.6 -.83
84.3 ←
196.8
253.1 136.0 -.85
Rev. phot.
156.3 c.s. dis.
296.2 ← Mean = -1.28
342.3 262.8
107.2 97.2

284.6 nova dis. -1.73
342.2 ←
114.1
12:16:50 153.7 97.2

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1934phae.proj..667M

JUN 22 1935

Nova Her INMH

12:22:15 295.0 Nova dist.
334.6
106.9
165.6 96.5 - 1.69

284.1 - 1.73
339.3
114.0
154.2 95.4 - 1.77
Rejected.
14.4 Mean = - 1.32
78.4
192.2
264.5 136.3 - .85

8.6 - .92
81.7
194.7
12:41:00 251.6 130.0 - .98

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1934phae.proj.667

JUN 22 1935

Comparison between RD $+46^{\circ}2426^{(7.2)}$ and $2416^{(7.3)}$ JNMH

14:05

2665.2
342.1 2426 dir. { 2416 − 2426 = }
93.9
176.0 139.0 +.79

269.7 +.70
356.7
103.1
165.0 146.9 +.60
Rev. plate.
359.5 Mean = +.10
85.3
170.7 194.5
279.4 165.5 −.27

354.1 −.49
103.0
169.2 217.0
11:20 277.3 143.0 −.71

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1934phae.proj..667

JUN 22 1935

Same JNM ti

14:22	351.7		
	96.0		
	182.3	86.4	
	266.4	173.6	−.12
	4.3		−.056
	86.0		
	175.2	162.5	
	276.0	177.5	−.05
	Re flect.		
	92.2		Mean = +.27
	176.0		
	281.3		
	344.3	146.6	+.64
	102.6		+.62
	165.4		
	274.0		
14:40	359.3	148.1	+.61

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1934phae.proj..667w

JUN 22 1935

Comparison between B.D. +46° 2416 (7.3) and 2410 (9.2)

14:46 111.4 2416 dia. { 2410 − 2416 = ? }
154.9 ✓
295.6
333.6 81.5 +2.15

116.8 +2.31
152.7 ✓
297.3
332.4 71.0 +2.47
Rev. flux.
199.6 Mean = +1.96
253.3 ✓
20.2
71.2 104.7 +1.54

201.1 +1.60
250.0 ✓
21.8
14:58 72.9 100.0 +1.66

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1934phae.proj..667

Tuesday, June 25, 1935

Comp. bet. BD +46° 2416 and 2410

Howell's obs.

10: 16: 10	114.2		
	155.0	40.8	
	298.0	35.9	
	333.9	76.7	229
	116.0		224
	150.8	34.8	
	293.8	45.0	
	338.8	79.8	220
			1.91
	194.3		
	254.7	60.4	
	22.6	44.0	
	66.6	104.4	1.55
	203.2		158
	246.1	42.9	
	17.0	59.5	
10:27:05	76.5	102.4	1.60

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1934phae.proj..667W

JUN 25 1935

obs. W. Swann

~~10:31:20~~ ~~74.3~~

~~11.2~~

~~10:34:30~~ ~~89.5~~

10.36:00 75.5 2410 dis.

163.2 87.7

199.5 2416 dis 53.9

253.4 141.6 .074

Trial run.

23.5 .110

65.0 41.5

189.0 66.9

255.9 108.4 1.45

107.5 1.34

150.0 42.5

291.1 49.8

340.9 92.3 1.85

106.9 1.58

151.2 44.3

281.1 69.9

10:48:30 351.0 114.2 1.32

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1934phae.proj...667

JUN 25 1935

Comp. Ref. BD +46° 2410 and 2402

Howell 16"

2410 Dia.

11:05:00

171.5		
276.3	104.8	
359.8	92.3	
92.1	197.1	+0.32
	162.9	
179.4		+0.30
273.0	93.6	
355.2	100.5	
95.7	194.1	+0.27
	165.9	

Rev. plate.

272.8		
356.7	83.9	
99.8	68.2	
168.0	152.1	−0.53
283.2		−0.51
349.2	67.0	
89.9	87.2	
177.1	154.2	−0.49

11:16:15

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1934phae.proj..667

JUN 25 1935

1 Fourth Obs.

11:17:10

271.2
357.4 — 86.2
100.9 — 69.0
169.9 155.2 − 04)

280.1 − 043
350.6 — 70.5
92.2 — 89.0
181.2 159.5 − 039

Run shor.

352.2 ~~041~~
100.5 — 108.3 − 0.01
181.4 — 88.8
270.2 197.1
1629 +0.32

358.3
90.8 — 92.5 +039
171.2 — 111.5
11:39:20 282.7 204.0
1560 +046

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1934phae.proj..667M

JUN 25 1935

Comp. bet. +46° 2402 and +45° 2639

JNMH obs
FMM Rec.

2639 disc

12:43:15

	10.9		
	79.4	68.5	
	185.1 ←	79.3	
	264.4	147.8	0.62
	2.5		055
	87.8	85.3	
	188.6 ←	69.8	
	258.4	153.1	0.60
	Rev. plate.		0.60
	109.2		
	165.0	55.8	
	281.1 ←	69.4	
	350.5	125.2	1.02
	100.0		1.05
	170.5	70.5	
	286.2	57.4	
12:57:20	343.6	127.9	1.02

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1934phae.proj..667

JUN 25 1935

Same

JNMH Obs
FMH Rec

12.58:40

106.2		
164.7 ←	58.5	
279.0	74.3	
353.3	132.8	092

99.8		1.00
171.2	71.4	
289.7 ←	53.8	
343.5	125.2	1.00
Rev. flat.		0.81
191.8		
258.1	66.3	
4.5 ←	81.0	
85.5	147.3	061

183.6		062
266.5	82.9	
10.5 ←	64.1	
74.6	147.0	063

12:12:00

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1934phae.proj..667M

JUN 25 1935

comp. bet. +46° 2639 and 2638 JNM + Obs.
FMM Rec

2638 dec. {2438 - 2439}

12:18:50

	32.1		
	60.5	28.4	
	201.2	48.5	
	249.7	76.9	− 2.29
	16.7		− 2.12
	73.1	56.4	
	211.0	31.9	
	242.9	88.3	− 1.96

Rev. plat.

125.4		Mean − 2.62
146.6	21.2	
298.4	32.8	
330.4	53.2	− 3.13
119.1		− 3.12
151.2	32.1	
304.4	21.5	
325.9	53.6	− 3.11

12:31:10

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1934phae.proj...667W

JUN 25 1935

Same

JNMH obs
FMM Rec.

1:32:45

124.0		
147.2	23.2	
299.8	31.4	
331.2	54.6	-3.07

118.6		-3.07
153.1	34.5	
304.1	20.1	
324.2	54.6	-3.07

Rev. flop.

211.7		mean -2.72
239.9	28.2	
21.7	49.4	
71.1	77.6	-2.27

199.9		-2.37
241.8	41.9	
32.2	29.1	-2.47
61.3	71.0	

12:44:40

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1934phae.proj...667

Wednesday, June 26, 1935

EST 12" Plaut tel. Phot T.

from book

Nova Her, JNMH Obs.

cs = BD +45° 2662

Clock corr: Radio 10s - watch = - 6s.

9:26:50

19.7 nova dis. 57.7

41.4 <

165.8 78.5

264.3 130.2 - .97

8.9 74.9 - .96

83.8 <

195.7 56.3

252.0 131.2 - .95

Rev. Phot.

117.1 39.8 Mean = -1.45

156.9 <

291.2 49.8

341.0 59.6 - 1.92

111.4 -1.94

162.9 51.5

295.8 <

9:41:15 332.6 36.8 88.3 - 1.96

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1934phae.proj..667W

JUN 26 1935

C.S = BD +46° 2426 JNMH 06.

9:46:35 · 152.8 2426 dis

268.0

346.2 ← 146.9

101.9 161.1 − .36

168.4 − .34

280.1

1.3 ← 201.6

91.2 156.4 − .41

Rev. flat.

284.5 Mean = +.02

347.7

87.9 ←

181.2 156.5 + .45

268.1 +.41

2.7 ←

105.0

10:02:35 · 171.1 160.7 + .37

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1934phae.proj..667

JUN 26 1935

BD +46° 2426 and 2416 JNM H

{2426-2416}

10:05 269.4 2426 dir.
354.2
102.2
165.7 146.3 −.61

282.5 −.59
346.2
89.0
175.8 150.5 −.57
Rev. plate.
350.3 Mean −.21
96.6
185.2 159.2
266.1 170.8 +.17

5.9 +.17
90.3
173.3 159.1
10:25 278.0 170.9 +.17

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1934phae.proj..607W

JUN 26 1935

BD +46° 2416 and 2410

{2416 − 2410}

10:32 111.8 2416 dis

156.8 ←

300.7 75.3 − 2.34

331.0

−2.35

119.6

151.0 ←

294.6

336.0 74.6 − 2.36

Rev. plate

196.7 Mean = −1.92

253.6 ←

23.4

69.0 102.7 − 1.59

203.9 −1.50

249.0 ←

14.1

10:49 79.0 110.0 − 1.42

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1934phae.proj...667M

JUN 26 1935

BD +46°, 2410 and 2402 JNMH

{2410 - 2402}

10:56 271.5 2410 dis
357.9 <
111.1
167.2 142.5 - .72

276.9 - .60
349.2 <
~~357.8~~ 95.0
177.2 154.5 - .49
Rev. plot.
352.8 Mean = - .04
99.3 <
170.6 215.6
279.7 144.4 + .69

352.3 + .51
101.0 <
182.8 197.3 + .33
11:15 271.4 162.7

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1934phae.proj..667M

JUN 26 1935

BD +46°.2402 and JNM 1t
+45° 2639

11:50 10.9 2639 dus {2402-2639}
80.0 <
152.7
268.3 154.7 + .48

1.7 + .56
87.9 <
195.0
256.2 147.4 + .63
Rev. flat.
110.5 Mean + .84
161.7 <
279.1
348.4 120.5 + 1.18
-

100.1 + 1.12
166.9
<
269.5
12:12 346.9 126.2 + 1.06

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1934phae.proj..667M

JUN 26 1935

SD + 45° 2639 and 2638 JNM H

{2639 − 2638}

12:20 29.7 2638 dir.
60.1 ∠
207.8
243.5 66.1 + 2.64

24.0 + 2.55
66.7 ∠
211.6
240.2 71.3 + 2.46

Rev. plot.
125.5
147.2 ∠ Mean = + 2.92
300.1
330.0 ∠ 51.6 + 3.20

122.3 + 3.30
149.3 ∠
304.6
12:33 325.1 47.3 + 3.40

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1934phae.proj..667W

JUN 26 1935

BD +45° 2639 and 2635 JNM+

{2639 − 2635}

12:40 2058.3 2635 dies

242.1 ←

143.6

71.2 91.2 + 1.88

1956.1 + 1.92

252.8 ←

30.1

64.1 88.7 + 1.95

Rev. plot.

302.6 Mean + 2.33

328.0 ←

118.2

154.3 61.5 + 2.80

297.9 + 2.74

336.1 ←

122.1

12:53 149.0 65.1 + 2.67

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1934phae.proj..667

JUN 26 1935

Nova Her

1.C. 35 + 45° 2662

12:56:40 19.6 Nova Her.

69.4 <

190.5

261.7 121.0 + 1.17

9.2 - 1.04

57.4 <

196.6

253.8 133.2 - .91

Rev. plus.

116.4 Mean - 1.48

154.1 <

289.6

344.0 91.9 - 1.86

111.5 - 1.92

164.7 <

296.9

13:12 333.7 58.0 - 1.97

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1934phae.proj.667

JUN 26 1935

BD +4°5° 2639 and 2635

{2639 - 2635}

14:22

24.1

63.5 ←

199.9

252.8 92.6 - 1.84

30.9 - 2.10

69.4 ←

207.6

243.6 74.5 - 2.36

Rev. plot.

122.0 Mean - 2.51

149.5 ←

300.6

331.0 57.7 - 2.95

119.7 - 2.92

152.7 ←

301.7

14:35 327.6 59.1 - 2.89

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1934phae.proj_667

Friday, June 28, 1935

(First actual measuring attempt of observer)

E.S.T from noon

12" polar telescope Plt. 9 Obs. W.F.S.

Nova Her

cs. B D +45° 2662 Sky bad

clock correction +15s

12:54:00	115.2		
	160.0 Nova disappears	44.8	
	278.7	56.3	
	335.0	101.1	-1.63
			-1.63
	113.5	48.0	
	161.5	53.4	
	290.5	101.4	-1.62
	343.9		Mean -1.56
	Reverse.		
	203.9	48.1	
	252.0	55.1	
	19.0	103.2	-1.58
	74.1		
			-1.48
	194.9	58.1	
	253.0	53.0	
	19.9	111.1	-1.39
13:10:10	72.9		

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1934phae.proj..667

Friday June 28, 1935

Same as preceeding sheet ob w.48.

Sky very bad

	12.6 nova disap.	60.9	
13:22:45	73.5	66.6	
	198.9	127.5	-1.03
	265.5		
			-0.95
	3.9	75.5	
	79.4	59.8	
	197.0	135.3	-0.87
	256.8		
	Rev.		mean -1.09
	91.5	78.1	
	169.6	50.1	
	288.0	128.2	-1.02
	338.1		
			-1.23
	108.9	56.9	
	165.8	52.0	
	289.5	108.9	-1.44
13:35:00	341.5		

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1934phae.proj..667M

Saturday June 29 1935

EST
pm noon

12" polar telescope Photometer T
Obs W.T.S.

Nova Herc.
Cs. B.D. +45° 2662 Hazy sky
Clock correction - Watch 15s slow of Ballou

10:20 Too cloudy to make observations. Was clear for about half an hour earlier in the evening. Cleared up.

11:07:45

286.0
340.0 Nova dia.
106.5 54.0
169.9 63.4
117.4 -1.25
-1.28

292.1 48.5
340.6 66.6
98.5 115.1 -1.30
165.1

Reverse Mean -1.11

8.1
83.4 75.3
201.5 54.9
256.4 130.2 -0.97
-0.93

17.0
76.6 59.6
189.5 74.5
264.0 134.1 -0.89

12:19.15

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1934phae.proj..667

Sat. June 29 1935

Same as preceding page.

11:27.00 11.2
74.5 Clouded over for good!

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1934phae.proj..667

Sunday June 30, 1935

E.S.T
from noon

12" polar telescope Photometer +
Obs. W.J.S.

Nova Her,
C.S. B.D. +45° 2662 good sky
clock correction - Watch 17^s slow of Ballon

9:23:00

295.7 nova dia. 39.3
335.0 72.3
123.4
295.7

good

335.0 45.0
120.0 34.5
159.5
294.0
Reverse
176.9
264.5
25.0
79.6

195.5
256.0
5.0

9:45:20 86.9

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1934phae.proj..667N

JUN 30 1935

Nova Her

Same as preceding page.

Sky becoming quite hazy.

10:07:00	288.9	52.6	
	341.5	39.9	
	115.5	92.5	-1.85
	155.4		
			-1.79
	299.0	41.6	
	340.6	55.5	
	113.0	97.1	-1.73
	168.5		
			mean -1.22
	5.3	69.8	
	75.1	61.4	
	194.6	131.2	-0.95
	256.0		
			-0.64
	8.2	72.4	
	80.6	90.2	
	182.8	162.6	-0.33
10:15:45	273.0		

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1934phae.proj...667M

JUN 30 1935

Nova Her. W.F.S.

Sky hazy

12:00:00 114.1 Nova dis.
156.0 83.9
295.0
337.0 -2.08
-2.14
112.4 80.2
155.9
297.8
334.5 -2.19
Reverse. Mean. -1.64
191.1 117.6
256.2
15.0
70.5 -1.25
-1.14
197.8
256.0 127.4
9.5
12:12:15 98.7 -1.03

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1934phae.proj..667W

JUN 30 1935

Nova Her. wt 8

Sky hazy

12 23:00 199.6 nova clear.
249.9
14.1
25.2 111.4 −1.39
−1.42

200.1
252.6
18.2
24.5 108.8 −1.45
Means −1.55

Rerun
291.1
341.1
109.0
158.3 99.3 −1.67
−1.67

288.9
336.8
109.0
12:37:30 160.5 99.4 −1.67

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

1934phae.proj.:667M

JUN 30 1935

Nova Her. W.H.S.

Shy Lazy

12:49:00

103.4
164.4
292.5
329.5 98.0 -1.71

-1.94

121.0
147.8
291.1
345.5 81.2 -2.16

Mean -1.60

189.4
264.1
24.1
65.0 116.4 -1.27

-1.25

208.0
252.9
11.1
13:11:00 84.4 118.2 -1.23

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1934phae.proj...667M

Monday JUL 1 1935

E.S.T from noon

12" polar telescope. Photometer T
Obs W.S.S.

Nova Her.
C.S. B.D. +45° 2662
Clock correction - Watch 33s slow of Ballou

8:26:00

54.0 novae			
114.4			
221.2			
338.0	157.2	-0.43	
			-0.45
41.1			
140.1			
238.9			
295.5	155.6	-0.47	
Reverse			Mean -1.05
162.5			
193.0			
321.9			
32.2	100.8	-1.64	
			-1.65
141.9			
211.1			
342.9			
9:39:45 13.8	100.1	-1.65	

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1934phae.proj..667M

JUL 1 1935

Nova Her. W.H.S

9:53:15	336.6		
	13.1	Nova dis	
	147.6		
	200.4	89.3	-1.93
			-2.02
	334.0		
	24.8		
	161.5		
	194.0	83.3	-2.10
			Mean -1.37
	60.6		
	109.4		
	224.7		
	307.2	131.3	-0.95
			-.77
	43.2		
	141.0		
	242.1		
9:6:15	294.0	149.7	-0.58

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1934phae.proj..667N

JUL 1 1935

Nova Her. W.T.S.

9:23:45 234.4 nuvo dus 71.1
305.5 67.4
62.5 138.5
129.9 -0.80

-0.75

234.6 69.5
304.1 74.4
50.2 143.9
124.6 -0.70

Mean -1.36

339.1 45.0
24.1 34.1
160.5 79.1
194.6 -2.22

-2.03

338.6 41.4
20.0 51.6
155.0 93.0 -1.83
9:37:30 206.6

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1934phae.proj.667M

JUL 1 1935.

Nova Her. W.S.

11:18:15	172.3	43.0	
	215.3	57.5	
	341.8	100.5	
	39.3		-1.62
			-1.71
	166.6	50.8	
	217.4	43.4	
	352.1	94.2	
	35.5		-1.80
			-1.60
	255.5	54.0	
	309.5	55.8	
	73.4	109.8	-1.42
	129.2		
			-1.50
	258.3	52.2	
	310.5	51.3	
	73.6	103.5	
11:37.00	124.9		-1.57

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1934phae.proj..667W

JUL 1 1935

Nova Her. W.D.S

11:42:30 70.5 Nov. Her.
132.2
260.7
310.5 111.5 -1.38
-1.33

74.5
128.0
251.4
314.2 116.3 -1.27
Means -1.49

159.1
226.0
359.0
28.5 96.4 -1.75
-1.65

174.0
212.0
334.4
11:53:30 42.0 105.6 -1.52

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1934phae.proj.667M

JUL 1 1935

Nova Her

vdS.

12:02:00	159.8			
	222.6			
	351.1			
	32.7	104.4	-1.55	
				-1.44
	171.0			
	214.4			
	335.9			
	46.9	114.4	-1.32	
				Mean -1.49
	250.5			
	308.5			
	39.7			
	124.0	102.3	-1.60	
				-1.54
	260.2			
	301.5			
	42.3			
12:16:45	138.5	107.5	-1.48	

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1934phae.proj..667W

Tuesday. JUL 2 1935

E.S.T. 12" Polar telescope Photometer T
From Obs. W.F.S.
nova Her.
C.S. B.D. + 45° 2662
Clock correction — Watch 11^s slow of Ballou
Very clear sky.

8:51:45

	183.8	69.0
	252.8	48.1
	14.5	117.1
	62.6	
		−1.26
	189.5	51.6
	241.1	71.7
	6.3	123.3
	58.0	
		−1.12
		Mean −1.22
	234.6	99.9
	334.5	35.1
	291.5	135.0
	326.6	
		−0.88
	112.0	36.1
	148.1	51.0
	282.0	87.1
9:16:30	333.0	
		−1.99

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1934phae.proj.667

JUL 2 1935

Nova Her

WTS

9:12:45

106.6

151.8 nova dus

290.2

326.5 81.5 -2.15

108.1

150.2

278.2

339.6 103.5 -1.57

Mean. -1.35

178.8

269.3

13.6

63.9 140.8 -0.76

189.5

248.4

1.7

9:25:45 74.0 127.2 -1.04

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1934phae.proj..667M

JUL 2 1935

Nova Her. a.A.S.

9:38:30	6.0	69.0	
	75.0	48.6	
	192.9	117.6	
	241.5		-1.25
			-1.20
	20.1	44.6	
	64.7	77.3	
	177.6	122.4	
	255.4		-1.14
			-1.43
	105.1	58.8	
	158.9	35.2	
	290.1	94.0	
	325.3		-1.81
			-1.65
	111.6	35.6	
	147.2	70.9	
	275.5	106.5	
9:52:50	346.4		-1.50

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1934phae.proj.667

206

JUL 2 1935

Nova Her. W.H.

11:40:00	281.1	59.8	
	340.9	45.3	
	106.0	105.1	
	151.3		-1.53
	287.8	41.8	
	329.6	48.9	
	106.7	90.7	-1.90
	155.6		
			Mean -1.65
	13.8	52.3	
	66.1	51.1	
	196.5	103.4	
	247.6		-1.57
	15.2	48.9	
	64.1	55.0	
	193.5	103.9	-1.56
11:51:30	248.5		

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1934phae.proj..667

JUL 2 1935

Nova Her. wts

16:58:15

10.9 mm vis 55.2
66.1 51 3
192.3 106.5
243.6 -1.50

14.5 51.5
66.0 55.3
191.5 109.0
247.0 -1.49

Mean -1.68

105.5 46.5
152.0 45.8
288.0 92.3
333.8 -1.85

109.5 41.6
151.1 50.4
280.8 92.0
12:10 45 331.2 -1.86

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1934phae.proj.667

208

JUL 2 1935

Nova Her. W 7 S.

13:37:30

114.5		37.4
151.9		44.9
287.2		82.3
332.1	-2.13	
	-2.11	
107.6		41.4
149.0		42.7
287.1		84.1
329.8	-2.08	
	Mean -1.77	
195.2		46.8
242.0		64.4
5.9		111.2
70.3	-1.39	
	-1.42	
187.5		65.5
253.0		42.9
21.4		108.4
64.3	-1.45	

13:48:00

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JUL 2 1935

Nova Her. W.L.S.

13:50:30

190.2 5 1.9
242.1 nova 55.3
11.2 107.2
66.5 -1.48

-1.57

191.3 53.2
244.5 46.9
18.6 100.1
65.5 -1.65 Mean -1.70

289.0 42.8
331.8 46.5
106.4 89.3
152.9 -1.93

-1.82

280.7 54.5
335.2 43.9
108.4 98.4
13:59:08 152.3 -1.70

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1934phae.proj.667

Thursday JUL 11 1935

E.S.T from noon

12" solar telescope Photometer ↑
Ala. w.t.s.

Nova Her
C.S. BD + 45° 2662
Clock correction watch 3^s fast of Ballou
Fair sky.

9
~~9~~: 15: 30

112.2	nova dia	33.8
146.2		45.1
257.2		78.9
332.3		

-2.23

-2.26

108.8		41.4
150.2		35.9
291.0		77.3
326.9		

-2.28

mean -1.63

189.8		56.7
246.5		80.1
0.4		136.8
80.5		

-.84

-.99

189.8		64.2
254.0		58.2
12.0		122.4
70.2		

-1.14

9:31: 15

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1934phae.proj...667M

JUL 11 1935

Same as preceding page.

cls W.T.S

Nova Her.

C.S B.O. 45° 2662

9:35:00	188.9 two dia	54.8	
	243.7	67.1	
	7.3	121.9	-1.15
	74.4		
			-1.22
	190.1	58.7	
	248.8	56.7	
	11.2	115.4	-1.29
	67.9		
		mean	-1.62
	292.6	34.1	
	326.7	49.6	
	104.0	83.7	-2.09
	153.6		
			-2.02
	283.9	52.5	
	336.4	36.0	
	109.5	88.5	-1.95
9:46:50	145.5		

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1934phae.proj.667

JUL 11 1935

Nova Her.

C.S. B.D. 45° 2665

10.05.30

~~145.5~~	114.5	28.8
143.3 Nova dis		36.5
289.5		65.3
326.0		-2.67
		-2.67
110.1	35.4	
145.5	29.9	
241.1	65.3	
324.0		-2.67
		mean -2.30
201.4	36.6	
238.0	50.0	
14.9	86.6	
64.9		-2.01
		-1.93
194.3	47.2	
241.5	45.6	
15.5	92.8	
61.1		-1.84

10.15.55

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JUL 11 1935

Nova Her.

C.S. 45° 2665

10:20:00

196.0	41.4	
237.4	50.7	
15.8	92.1	
66.5		-1.86
		-1.86
194.1	48.7	
242.8	43.6	
18.9	92.3	
62.5		-1.85
		Mean -2.23
292.9	31.9	
324.8	38.3	
110.8	70.2	
149.1		-2.50
		-2.61
291.5	35.1	
326.6	29.0	
115.5	64.1	
144.5		-2.71

10:30:00

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1934phae.proj..667M

Saturday July 13, 1935

E.S.T. from noon

Nova Herculis cp* BD +46° 2466
Nova brighter than 1

LEC Obs
Richard Leacy Rec

I

14 26m 00s

55.7	60.4		
− 4.7	56.2		
234.0	116.6	1.27	
177.8			
46.6	44.4		
2.2	42.9		
225.3	87.3	1.99	
182.4			
			−1.91
133.8	37.3		
96.5	35.4		
314.3	72.7	2.42	
278.9			
138.5	44.3		
94.2	44.4		
315.2	88.7	1.95	
270.8		7.63	

14 33 00

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1934phae.proj..667M

July 13, 1935.

EST
forenoon

II.

14 34 56	136.4	44.4		
	92.0	46.3		
	318.0	90.7	1.90	
	271.7			
	133.4	36.6		
	96.8	37.9		
	312.7	74.5	2.36	
	274.8			
				−1.94
	44.9	40.9		
	4.0	46.1		
	227.8	87.0	2.00	
	181.7			
	54.3	55.2		
	−0.9	51.8		
	230.0	107.0	1.49	
14 20 00	178.2		7.75	

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1934phae.proj.667

JUL 17 1935

Wednesday.

E.S.T. from noon

12" Polar Telescope Photometer T
Obs. W.T.S.

Nova. Her
C.S BD 45° 2662

Clock correction Watch 8^s slow of Ballou
Hazy Sky and moon

10:35 00

179.4	49.2	
228.6	40.6	
6.5	89.8	
47.1		1.92
		1.91
185.5	44.1	
229.6	46.3	
4.3	90.4	
50.6		1.90
		-1.80
272.1	52.9	
325.0	44.2	
93.6	97.1	
137.8		1.73
		1.68
272.4	50.1	
322.5	51.4	
59.7	101.5	1.62
10:45:45	141.1	

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1934phae.proj..667M

JUL 17 1935

Name a preceding page

Nova Her.

C.S. B.D. 45° 2662

0:47:00	272.5	48.7	
	321.2 nova dia	50.2	
	92.5	98.9	
	142.7		1.68
			1.80
	276.6	40.8	
	317.4	49.4	
	91.7	90.2	
	141.1		1.91
			−1.88
	4.7	43.5	
	48.2	48.4	
	185.5	91.9	1.86
	231.9		
			1.96
	4.1	39.6	
	43.7	45.2	
	185.3	84.8	2.06
11:00:30	230.5		

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1934phae.proj.667M

JUL 17 1935

JUL 17 1935

Nova Her.

C.S B.D 45° 2662

Moon and clouds
Sky very bad.

11:15:30

185.3 radius 45.1
230.4 35.0
9.2 80.1 2.19
44.2

2.10

186.8 42.5
229.3 44.0
4.5 86.5 2.01
48.5

-1.93

273.5 45.6
319.1 49.7
91.8 95.3
141.5 1.77

275.0 46.1 1.75
321.1 50.8
92.1 96.9
142.9 1.73

11:29:30

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1934phae.proj..667w

Thur. July 18, 1935

E.S.T. 12" polar telesc. Phtg. ♀
from Obs. w.t.s.
noon Nova Her.
C.S. B.D. 45° 2662
Clock correction watch 23^s slow of Ballou

Sky fairly clear. Hard to compare because of difference in magnitude between it and the comparison

8
9h 46m 30s

179.5	57.1		
236.6	50.6		
0.0	107.7	1.47	
50.6			
			1.38
181.0	56.2		
237.2	59.9		
353.5	116.1		
53.4		1.28	
			Mean −1.68
276.3	40.7		
317.0	42.9		
98.0	83.6	2.09	
140.9			
			1.98
275.3	44.9		
320.2	46.8		
93.7	91.7	1.87	
140.5			

8
9h 57m 05s

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1934phae.proj..667

July 18 1935

IV.

Nova Her Obs. W.H.S.

Sky fairly hazy

9:06:30	94.9 dis	44.6	
	139.5	47.0	
	273.0	91.6	1.87
	320.0		
			2.03
	94.7	43.7	
	138.4	36.8	
	279.3	80.5	2.18
	316.1		Mean - 1.79
	Reverse		
	182.7	45.5	
	228.2	53.3	
	0.2	98.8	1.69
	53.5		
	173.0	62.4	
	235.4	48.6	
	0.4	111.0	1.39
9:15:30	49.0		

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1934phae.proj..667

July 18 1935

III

Hazy sky.

IV

Obs wtd.

9. 22. 00

178.5	nearer dia		
234.8		56.3	
5.6		44.9	
50.5		101.2	1.63
			1.62
179.4		53.5	
232.9		48.8	1.60
4.0			
52.8		102.3	
		Mean	-1.80
279.0		37.0	
316.0		48.4	
92.6		85.4	2.04
141.0			
			1.97
274.5		47.8	
322.3		43.2	
97.2		91.0	1.89

9:31:15 140.4

9.41:00

94.5	nearer dia	
142.3		1.66
271.0		
323.2		1.70
93.0		
140.2		
272.0		1.73
321.8		
	Mean	-1.81
182.0		
230.1		1.97
2.9		
42.8		1.92
184.5		
231.2		1.86
4.5		
9:52:15 49.8		

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