1934phae.proj..6320

15-inch
Co. Equat.

1934

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1934phae.proj..6320

u repl. 0ᵐ50
+81.1

8.41 = mag of C.S. .cs

If V.S. disappears between 1st & 2nd readings and the sum of the differences is less than 180°, the difference in mag. is MINUS (—).
If sum is greater than 180°, subtract from 360 and difference is +
=
If Comp. star dis. and sum of diffs. is less than 180, the SIGN of Δm is +
If Greater than 180, sign is —.

KG 1134.634

dis.	SUM of DIFFs.	SIGN of Δm
V	Greater than 180	+
	Less " 180	—
C	Greater than 180	—
	Less " 180	+

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1934phae.proj..632c

KG11365.631

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1934phae.proj..632C

Tues. Oct. 2, 1934

E.S.T. 15 E. Eq. Phot T.

from Noon

Ball 10 Howells watch
7 16 0.0 7 15 ~~38~~

Ball 10 LC watch
7 17 0.0 7 16 18

U Cep. 00 53 ~~38~~ 41
24 53 +41.8
I 20 33
4 20 E

		Howells Watch	Howells Ch. LC. Rec.
8h 04 00	46 < Var dis		
	53.8 < Rev. Imag.	~~39.2~~ 49.2	Coffee Reader
	175.0	64.2 68.2	
	243.2	107.4 117.4	- 1.25
	351.8		
	54.0	62.2 -	- 1.38
	187.2	44.1	
	231.3	106.3	- 1.50
	Rev. Phot.		Mean = - 1.56
	92.3	46.2	
	138.5	54.1	
	269.0	100.3	- 1.65
	323.1		
	89.1	52.0	- 1.74
	141.1	41.6	
	276.2	93.6	- 1.82
8h 23 50	319		

J.D. 2713.5516

Time = 8:13:55 + 22³ + 5ʰ = 13:14:17 G.M.T.

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1934phae.proj..632C

Oct. 2, 1934

II

Cuffey, Observ.
Howard, Recorder
L.C. Reader

8:28:00 259.4 var. dir.

329.6 ∠ Rev. Image 70.2
79.6
154.8 75.2
145.8 −.66

259.8
331.5 ∠ Rev. 9. 71.7 −.75
83.7 65.0
148.7 136.7 −.84
∠ Rev. Phot.

3.2
52.3 ∠ Rev. 9. 49.1 Mean = −1.34
183.2 43.8
227.0 92.9 −1.84

4:8
47.0 42.2 −1.92
183.1 44.7
8:36:35 227.8 86.9 −2.00

8:32:18
5 :: 23
13:32:41
GMT
J.D. 2713.5643

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1934phae.proj..632c

Oct. 2, 1934

II

Campbell obs
Cuffey recorder
Howells Reader

8 40 59

2.5 var. dia.
28.3 (Rev. im.
181.6
229.0

5.8
47.4
93.2 -1.83

358.4
54.8 (Rev. D
183.6
228.4

56.4
44.8
101.2 -1.63

Rev. phot

89.7
147.1
264.0 (Rev. D
333.3

57.4
69.3
126.7 -1.05

89.5
151.2
261.7
327.8

61.7
66.1
127.8 -1.03

mean = ~~1.50~~ 1.40

8 45 22

8 51
8:43:10
5: :23
13:43:33
G.M.T.
J.D 27213.5719

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1934phae.proj..632C

IV

Oct 2, 1934

Howells - Observ,
Cuffey - Record

9 12 30

262.0 van-Dis.
327.3
94.7 65.3
149.0 54.7
119.6 -1.20

147.5 ~~262.0~~ 267.0.
87.8 325.8. <Rev plot!!
174.3
232.3
<Rev im. 58.0 mean = -1.51
3.5 23.4
26.9 81.4 -2.15
~~80.6~~

180.6
231.4 50.8
356.2 ~~58.1~~
54.3 108.9. -1.44

9 32 30
9:22:30
5 23
14:22:53
G.M.T.
J.D. 2713.5992

Rev. Phot.

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1934phae.proj..632C

Oct. 2, 1934 V

9:46:7

319.8		Cuffay - Obs.
85.0	234.5	Howe Obs - Rec.
146.5	1825.2	
266.0	119.5	
	244.7	
321.8	115.3	−1.30
56.9	127.1	
156.1	99.0	−1.12
255.1	228.1	
Rev. Phot.	131.9	−.94
53.0		
185.5	132.5	Mean = −1.42
230.8	133.7	
4.5	266.2	
	93.8	−1.81
48.2		
184.5	136.3	−1.42
231.2	122.4	
353.6	258.7	
	101.3	−1.62

9:56:40

~~9:38~~

~~9:39~~:

9:51:24

5 23

14:51:47

G.M.T.

J.D. ~~2771~~ 27713.6193

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1934phae.proj..632C

Oct. 2, 1934

VI

Howells obs, cuffey rec

10-02 00

173.2 var. dia.
231.2 < Rev. 1 — 58.0
0.1 — 55.2
55.3 — 113.2 — -1.34

176.0
230.8 < Rev 1 — 54.8 — -1.40
358.6 — 54.0
57.6 — 108.8 — -1.45
< Rec Phot.

268.8 — mean = -1.35
323.0 < — 54.2
86.0 — 59.7
145.7 — 113.9 — -1.33

269.3
322.1 < — 52.8 — -1.30
81.4 — 63.6
145.0 — 116.4 — -1.27

10 17.05
10:9:32
5 23
15:9:55
G.M.T.
O.D. 27713.63618

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1934phae.proj..632C

Oct. 2. 1934

VII

10:22:26	324.8 Ls. Dio.		Cuffey - Obs.
	86.2 < Rev. Mn.	~~238.6~~	Howells - Rev.
	143.0	122.4	
	265.2	122.2	
		244.6	
	326.1	115.4	- 1.29
	87.2 < Rev. Mn.	121.1	
	145.1	114.9	-1.20
	260.0	236.0	
	Rev. Phot.	124.0	-1.11
	66.0		
	175.2 < Rev. Mn.	107.2	
	228.5	123.5	Mean = -1.30
	1.0	230.7	
		129.3	-.99
	51.2		
	182.0 < Rev. Mn.	130.8	-1.40
	227.0	134.7	
10:34:20	1.7	265.5	
10:28:24		94.2	-1.80
5 23			
15:28:57 G.M.T.			
J.D. 27713.6451			

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1934phae.proj..632C

VIII

Oct. 2 1934

Howells-obs, Cuffey-rec.

10-40-05

229.6 van. dia.
359.2 129.6
29.3 156.7
186.0 286.3
73.7 -2.39

325.9
82.2 116.3
144.6 124.8
268.4 241.1 -1.22

928.1
359.7 131.6 -2.00
53.2 127.0 -1.62
180.2 258.6
101.4

327.7 112.6
80.3 134.8
125.8 247.4 -1.36
260.6 112.6

mean = -1.65

10-53-10

Cuffey-obs. Howells-Rec.

10:59:15

80.5 van dia.
143.5 < Rev. Mm.
267.0 63.0
327.5 60.5
123.5 -1.12

161.6
237.0 < Rev. Mm.
5.5 55.2
47.5 42.0
97.2
-1.73

88.7
143.5 < Rev. Mm
260.2 54.8 -1.10
330.2 70.0
124.8 -1.09

162.3
233.6 < Rev. Mm.
0.0 51.5
50.0 50.0 -1.68
101.5
-1.62

11:5:30

43:38:00 Rec. Photometer:

10:54:30

mean = -1.39

~~G.M.T.~~

~~J.D. 2713.~~

5 24

15:54:54 G.M.T. J.D. 2713.6631

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1934phae.proj..632C

Oct. 2, '34

Howells Obs.
Cuffey rec

11 12 25	52.5		147.9		
	179.0	126.5	264.5	116.6	
	227.4	132.9	326.8	112.3	
	0.3	259.4	79.1	228.9	
		100.6		131.1	
	49.9	-1.64	148.2	-.96	
	179.6	129.5	264.0	115.8	
	231.1	128.1	-1.62	325.0	115.0	-.98
11-23-00	359.2	257.6	80.0	230.8	
		102.4		129.2	
		-1.60		-1.00	

11:17:43 +5:0:24
= 16:18:07 G.M.T.
J.D.
2713.6793

Mean = -1.30

Cuffey - Obs. Howells - Rec.

5 Aur. LC Ob.

4 54 + 41.0
0 30

4 24 E

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1934phae.proj..632C

Laura
PA 177 B

Oct. 2

11 50 22	290.3	var & dis	Campbell obs Howell reader cuffey rec
	298.2	7.9	
	111.7	7.8	
	119.5	15.7	−5.52
	292.5		5.52
	299.6	7.1	
	109.5	10.1	
	119.6	17.2	−5.62
	P.a. 357° B		
	23.9		mean −5.92
	29.4	6.5	
	201.3	7.3	
	208.6	13.8	−6.10
	221.3		
	28.6	7.3	6.13
	201.9	6.1	
11 57 35	208.0	13.4	−6.16
57			
11 53 58			

201
15.02 = −5.92

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1934phae.proj..632C

Oct. 2. 1934 XI

Cuffey - Obs.
Howells - Rec.

P.A. 357°

12:2:41	29.5	
	210.8 ∠ Rev. 4m.	184.3
	27.5	175.0
	202.5	358.3
	21.8	
	209.5 ∠ Rev. 4m.	187.7
	23.0	180.5
	203.8	368.5
	Rev. Phot.	
	121.5	
	289.5 ∠ Rev. 4m.	168.0
	111.5	174.5
	286.0	342.5
	129.0	
	284.5 ∠ Rev. 4m.	155.5
	114.0	174.0
12:13:54	288.0	329.5

rejected: circle moved
then 2 extinctions

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1934phae.proj..632C

GST from noon Oct 2, 1934

Campbell obs
Howells head
Cuffey rec.

II

12 18 02

110.7
118.1 7.4
292.3 7.9
300.2 15.3 −5.87

111.6 −5.94
118.8 7.2
290.8 7.2
298.0 14.4 −6.01

Mean −6.06

201.1
207.8 6.7
22.7 6.6
28.8 13.3 −6.18

201.8 −6.19
208.3 6.5
23.1 6.7
29.8 13.2 −6.20

12 24 55

12 21 28

162
14.05 −6.07

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1934phae.proj..632C

Oct. 2 – 1934

III

Campbell obs.

12 37 10

202.8		
207.8	5.0	
223.1	6.9	– 662
230.0	11.9	

201.1 – 625

208.1	7.0	
227.8	6.5	– 615
229.3	13.5	

Mean – 6.02

293.0		
300.9	7.9	
110.0	9.0	– 566
119.0	16.9	

293.8 – 576

302.0	8.2	
111.0	7.2	– 586
118.2	15.4	

12 44 24

8 1 34

12 40 47

4/177 –

14°.42

ΔM = 6.00

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1934phae.proj..632C

Oct 2/1934

Experimented by Howard Abbott

12 49 30	294.9			
	301.0	6.1		
	96.0	23.5		
	119.5	29.6	−4.43	
	291.4		−4.86	
	305.6	14.2		
	112.0	5 9		
13 00 00	117.9	20.1	−5.28	

Reversed Plot. Mean = −5.54

13 02 50	~~29.0~~ 22.8		
	30.8	8.0	
	201.4	7.1	
	208.5	15.1	−5.90
	223		
	30.1	7.8	−6.22
	202.2	3.4	
13 09 47	205.6	11.2	−6.5

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1934phae.proj..632C

Oct 2 / 1934

IV 2 C Ob.

Caffey - Reader
Howells - Rec.

1:13:7	23.5		
	29.0 ∠ Rev. Im.	5.2	
	201.0	6.6	
	207.8	12.0	
	22.6		
	26.3	3.7	

New start - readjusted focus.

13:17:12	202.6		
	208.5 ∠ Rev. Im.	5.9	
	22.1	7.4	
	29.5	13.3	−6.18
	201.5		−6.10
	208.18 ∠ Rev. Im.	7.3	
	22.5	7.0	
	29.5	14.3	−6.02
	Rev. Phot.		Mean = 6.02
	292.2		
	299.2 ∠ Rev. Im.	7.0	
	111.5	6.9	
	119.4	13.9	−6.08
	291.8		−5.95
	300.2 ∠ Rev. Im.	8.4	
	111.6	7.3	
13:23:0	118.9	15.7	−5.82

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1934phae.proj..632C

Oct 2/1934

Sam

Experimental only

cutting Ch.

13 25 15 111.0

118.7 7.7

295.0 8.1

303.1 15.8 - 5.70

108.8 - 5.90

116.2 7.4

111.4 7.0

118.4 14.4 -601

Rev. Plot Mean = -5.66

22.8

29.7 6.9

+ 197.7 12.1

209.8 19.0 - 5.40

21.1 - 5.42

33.6 12.5

201.5 6.3

13 36 02 207.8 18.8 - 5.43

13 30.5 21 17 05

Shr wheel = 5.8

P.a. Ver B = 342 B

= Howells watch

Ball 103 1W5000 watch used 1935

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1934phae.proj..632C

Thursday, Oct. 4, 1934

E.S.T. from Noon

Watch comparisons:

Balloon 103 — Howell's watch

~~7=2~~ 7:19:00 — 7:17:59

Metis (9)

Phot T

Comp stars = S.D. −9° 6309

H.D. 224988 Phm. 8.m 71 (K0)

23 58 − 10.4

20 40

3 18 E

Howell's Cl

Coffee Reader

E C Rec.

I

	P.a.		
8 51 50	198.4 aster dia		
	313.0	119.6	
	13.2	112.4	
	125.6	232.0	+ 1.0 r
	189.5	128.0	0.93
	309.2	109.7	+ ~~0.84~~
	12.2	113.6	
8 58 00	125.8	223.3	+0.84
	Rev Plates	136.7	Mean = +0.54
9 00 32	290.2		
	29.8	99.6	
	118.0	86.0	
	204.0	185.6	
		174.4	+ 0.11
	292.5		
	23.2	90.7	+0.16
	109.20	100.2	
9 04 40	209.2	190.7	+ 0.28
35 02		169.3	
8 58 45			

+ 5:12 = 13:59:47 G.M.T. : J.D. 27715.5831

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1934phae.proj..632C

Oct. 4. 1934

Metis (9) II

9 07 45	112.6	< aster dis.		Cuffey Dr
	205.7	93.1		Howells Read.
	293.4	91.4		F.C. Rec.
	25.2	184.5		
		175.5	+ 0,08	
	118.0			
	202.2	84.2	+ 0.09	
	288.0	101.0		
9 10 55	29.0	185.2	+ 0.10	
		174.8		

Rev. Photo Mean = +0.40

9 12,00.	199.0			
	301.1	102.1		
	17.5	112.1		
	129.6	214.2	+ .66	
		145.8		
	192.5		+0.72	
	308.4	115.9		
	17.3	104.3		
9 14 15	121.6	220.2	+ .78	
9 18 55		199.8		
5 1 2				

14 · 12: 57 G.M.T

J.D. 27715.5923

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1934phae.proj..632C

Metis 9

Oct 4, 1934.

EST
From noon

III

Howells obs.
cuffey rec.

9-26-38 ~~203.1~~

9-29-15 294.2 Les dis

18.1	73.9	
129.8	60.2	+ .89
190.0	134.1	

~~10~~

311.1		+ 0.94
10.2	59.1	
124.5	70.5	+ .99
9-37-50 195.0	129.6	

9-40-00

21.2		Mean = + 0.49
118.3	97.1	
205.2	84.1	
289.3	181.2	+ .02
	178.8	

23.9		+ 0.04
111.0	87.1	
200.8	96.5	+ .07
9-45-35 297.3	183.6	
	176.4	

151 100

9:38:10

5: 1: 2

14:39:12 G.M.T.

J.D.: 2715.6105

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1934phae.proj..632C

Oct. 4, 1934

Cuffey obs
Howells rec

9:48:55	116.2 < Ast. dia	91.3	
	207.5 < Ast. dia	102.7	
	269.5	194.0	+.27
	32.2	166	
			+.23
	109.5	104.7	
	214.2 <	85.2	
	295.0	190.9	+.20
	20.2	169.1	
	Rev. Phot.		
	207.5	86.5	Mean = +.32
9:50:30	296.0 <	101.5	
	Rev Obs	190.0	+.19
9:51:0	17.0	170	
	118.5		+.41
	196.0	109.0	
	305.0 <	103.7	+.63
	17.5	212.7	
9:52:35	121.2	147.3	

201 120
9:50:45
5:1:2
14:51:47 GMT.
J.D. 27715.6193

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1934phae.proj...632C

Oct. 4, 1934

cuffey obs
Howells

9:59:20

197.5	106.0	
303.5	112.7	+.75
501.0	218.7	
128.5	141.3	

+0.62

197.5	106.0	
303.5	100.0	
501.0	206.0	+.50
120.0	154.0	

Rev. Phot.

Mean

295.5	80.0	
15.5	89.5	+.20
311.0	169.5	
700.0		+0.20

301.0	91.0	+.21
32.0	78.0	
129.5	169.0	
198.5		

10:05:44

Mean = +0.41

10:02:16

5 1 2

15:03:18 G.M.T.

J.D. 27715.6273

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1934phae.proj..632C

Oct. 24, 1934

Cuffey obs. Howells rec.

10:08:30

303.1 ∠Ast. dia.	83.9	
27.0 ∠Ast. dia.	96.0	
106.5	179.9	−0.00
202.5		
		+.01
296.5	91.5	
26.0 ∠	89.5	+.02
116.5	181.0	
206.0		
Ref. Phot.		mean = +.25
31.5	81.0	
112.5 ∠	121.5	
186.0	202.5	+.43
307.5	157.5	
		+.50
16.5	104.5	
121.0	105.6	
197.2 ∠	210.1	+.58
302.6	149.9	

10:12:36

10:10:34

5 1 2

15:11:36 G.M.T.

J.D.: 2715.6330

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1934phae.proj..632C

Oct 4. 1934

Cuffey obs.
Howell rec.

10:15:33

18.9 < A-st. dis.	105.1	
124.0 < A-st. dis.	109.0	
196.5	214.1	+.66
305.5	145.9	
		+.54
15.2	108.8	
124.0	93.3	+.42
206.5 <	202.1	
299.8	157.9	
Rev. phot.		mean = +.33
121.2		
197.0	75.8	
291.8 <	97.7	+.12
29.5	173.5	
		+.13
112.0		
205.5	93.5	
299.0 <	79.2	+.14
18.2	172.7	

10:19:28

10:17:30

5 1 2

15:18:32 G.M.T.

J.D.: 27715.6379

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1934phae.proj..632C

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1934phae.proj..632C

Oct 4, Metis (9)

10-28-35

125.7
189.6 Ast. dia 63.9
314.6 103.6
35.2 167.5 −.24

107.2 Semi-mean, −.17
211.1 103.9
306.8 70.2
17.0 174.1
−.11

201.3
298.1 96.8
14.1 106.4
120.5 203.2
156.8 +.44

197.7
303.4 105.7 +.57
14.2 111.0
125.2 216.7
143.3 +.71

Mean = +.20

Howells obs.
Cuffey rec.

167.5
174.1
203.2
216.7
4 | 761.5
190.37

Suff.
169.63
+.20

10
9-38-45

10:31:10
5 1 3

15:32:13 G.M.T.
J.D.: 27715.6474

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1934phae.proj..632C

Oct 4. Stillmetis
Dowells dbq.
Cuffey rec.

10 44 20

1961			
301.5	ast. dis.	105.4	
012.6		113.5	
136.1		218.9	210.9
		141.1 +.75	218.8
193.2			184.1
309.1		115.9	172.1
18.2		102.9	4 793.9
121.1		218.8	198.49
			161°.53
	Rev. plot,	141.2 +.75	
301.8			.35
33.6		80.3	
108.0		103.8	Mean = +.36
211.8		184.1	
29		175.9	+.08
294.8			
31.6		96.8	-.03
123.8		75.3	
199.1		172.1	-.15

10 57 15

10 : 50 : 48

5 : 1 : 3

15 : 51 : 51 G.M.T.

J.D.: 2 7715.6611

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1934phae.proj..632C

Oct 4. 1934 Metis

10-59-48

305.8			Howells obs
19.1	73.3		duffy rec.
107.1	104.0		
211.1	177.3	##	-.05
			177.3
291.6	95.8		167.7 -.14
27.4	71.9		205.6
122.6	167.7	##	256.0
194.5		-.23	168.6
			192.15
35.1			167.85
118.5	83.4		.23
188.4	122.2		Mean = +.23
310.6	205.6	+ .49	
	154.4		
10.1			+ .61
128.0	117.9		
201.4	100.1		
301.5	218.0	+ .73	
	142.0		

11-12-15

12 03

10 56 02

5 1 04

15-57.1 G.M.T.

Reversed telescope.

2715.6647

11:06:02

5:1:3

16:07:05 G.M.T.

J.D. 2715.6716

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1934phae.proj..632C

Oct. 4.

Howells obs.
Cuffey rec.

12-0-25

	126.2		
Ast. dir. →	191.4	65.2	
	286.9	108.2	
	35.1	173.4	−.13
	108.1		173.4
	219.0	110.9	181.5 −.05
	304.8	70.6	216.0
	15.4	181.5	+.03 205.7
		178.5	4)776.5
	204.2		194.12
	299.5	95.3	165.9
	9.4	120.7	.27
	130.1	216.0	+.69
		144.0	
	189.0		+.59
	303.9	114.9	
	27.1	90.8	
12-10-28	117.9	205.7	+.69
		154.3	

12:05:26

5 1 3

Mean = +.27

17:06:29 G.M.T.

J.D. 27715.7127

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1934phae.proj..632C

Oct. 4, 1934

Cuffey Obs., Howells Rec.

12:22:37

197.0	99.5			
296.5	108.0			
19.5	207.5		207.5	
127.5	152.5	+.53	215.9	
			191.8	
195.2	114.8	+.61	193.5	
310.0	101.1		2	
22.4	215.9	+.69	.7	
123.5	144.1			

Rev. Phot

291.5	95.0		Mean = +.42
76.5	96.8		
115.0	191.8		
211.8	168.2	+.27	
292.5	98.6	+.23	
31.1	94.9		
106.9	193.5	+.25	
201.8	166.5		

12:27:25

12:25:01

5 1 3

17:26:04 G.M.T.

J.D. 27715.7264

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1934phae.proj..632C

Oct. 4, 1954

Cuffey, Ohio. Howells Roc.

12:23:57

206.5 Cs. dis
293.0 ✓
27.0
109.0

46.5
82.0
168.5

204.5
297.5 ✓
24.0
183.8

83.0
74.8
157.8

Rev. Phot

Phot. not reversed. Start new group

12:36:56

301.0 Cs. dis
20.0 ✓
126.5
195.0

79.0
68.5
147.5 +.62

300.0
10.5
120.8 ✓
195.0

70.5
74.2
144.7 +.68 +.65

Rev. Phot

Mean = +.32

24.0
117.0 ✓
200.0
292.5

93.0
92.5
185.5 −.10
194.5

29.2
111.5 ✓
202.5
296.5

82.3
94.0
176.3 +.07 ~~+.06~~ −.01

12.40.56

12:38:56 +5:1:4 = 17:40:00 GMT

J.D.: 27715.7361

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1934phae.proj...632C

Oct. 4. 1934

Cuffey: Obs. Howells

12:41:56

297.2 ∠ ast. dis

27.5 ∠ 90.3

111.5 92.5

204.0 ~~360~~ 182.8 +.05

177.2

292.0 91.0 +.14

23.0 ∠ 101.0

103.5 ~~192.5~~ 192.0 +.23

204.5 ~~102~~

Rev. Phot. Mean = +.39

23.8 96.7

120.5 ∠ 115.8

193.2 ~~312.5~~ 212.5 +.62

309.0 147.5

+.64

14.5 109.5

124.0 ∠ 105.5 +.67

192.5 ~~315.0~~ 215.0

12:46:27 298.0 145.

12:44:12 Clock corr

5 1 4 Ballon 103 Howells watch

13:35:00 13:33:56

17:45:16 G.M.T.

J.D. 27715.7398

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1934phae.proj..632C

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1934phae.proj...632C

Oct 7. '34

U Cephei.

cuffey obs
cuffey rec

α 21h 35
0h 50
20h

24h 50
21 35
3h 15E

+81.°1

9:38:50 ·

177.5	< comp. * dis.	
295.0	117.5	
8.0 c	101.0	
109.0	218.5	− .74
	141.5	
188.5		
286.5	98.0	* .68
2.0 c	115.0	
117.0	213.0	− .63
"	147.0	
288.0		Mean = * 0.20
360.0	72.0	
107.0 c	88.0	
195.0	160.0	+ 0.38
275.0		.28
13.0	86.0	
116.5	72.0	
188.5	170.0	+ 0.19

9-51-0

Bellows 56-00
Watch 57 25

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1934phae.proj..632C

Oct. 7 U Ceph cuffey obs + rec

10-2-15 194.5 var
~~285~~ dis.
277.0
4.5 42.5
110.5 106.0
188.5 + .17

189.0 171.5
290.0 101.0 + .13
20.0 83.5
103.5 184.5 + .08
175.5

296.5 mean = − 0.44
1.3 64.8
114.0 62.0 − 1.00
176.0 128.8

− 1.01

286.5
02.8 76.3
121.5 52.0 − 1.01.
10-12-15 173.5 124.3

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1934phae.proj...632C

Oct. 7 υ Ceph cuffey observer.

10-23-30

174.5 Less dis.

297.0 127.5
7.0 107.0
114.0 229.5 − .97
130.5

185.5 − 1.03
290.0 104.5
350.0 131.0
121.0 235.5 − 1.10
174.5

284.5 mean = 0.22
12.8 88.3
110.5 80.5
191.0 168.8 + 0.21

292.0 0.60
5.5 53.5
113.5 76.0
189.5 129.5 + 0.99

10-36-40

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1934phae.proj..632C

Oct 7, U Ceph enffey obs + rea,

11-5-30

193.5 Var dis
285.0 91.5
0.0 115.5
115.5 207.0 + .52
153.0

185.5 + .52
290.5 105.0
08.5 101.5 + .51
110.0 206.5
153.5

297.5 Mean
61.0 63.5
104.0 88.2 − .54
192.2 151.7

− .53

278.5
10.0 91.5
117.5 61.0 − .53
178.5 152.5

about
11 14

Reverse tube

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1934phae.proj..632C

E39
Broom Moon Oct 7

Howells obs
Cuffey rec

11-37-25

96.2 cs dis

201.4 105.2

289.2 76.9 — .04

396.1 182.1

177.9 + .02 −.06

103.9

187.0 83.1

281.2 91.8 + .09

13.0 174.9

Mean = − 0.46

180.5

294.3 113.8

3.8 108.4 − .82

117.2 222.2

1378 − .94

183.5

293.2 109.7

355.0 124.0 − 1.06

11-48-55 119.0 233.7

126.3

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1934phae.proj..632C

EST from Noon Oct 7 U Ceph Howells obs cuffey res

11-53-15

117.2
180.1 62.9 −
293.0 69.4 ∓.93
2.4 132.3

−
∓.96

114.0
185.0 71.0
298.6 59.0 ∓.98
357.6 130.0

Mean = ± 0.96
−044

~~assumed~~ 200.0
278.2 78.2
289.5 73.6 − ~~.40~~
3.1 184.6 +09

∓ ~~.75~~
+.09

115.5
186.7 71.2
271.8 103.7 +.09
12-6-40 155 174.9

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1934phae.proj..632C

TST for Norm. Oct. 7. U Cep. Cuffey. Obs. Harvard Ob. Rec.

12: 10:32

	203.0 Var dist	
	276.0 < Rev. Dm.	73.0
	7.5	100.5 ± .12
	106.0	173.5
		± .17
	186.0	101.0
	267.0 <	68.0
	28.0	169.0 ± .21
	~~273.0~~ 96.0	
	Rev. Phot.	Mean = ± 0.2
	~~11.5~~ 289.5	
	7.0 <	74.5
	107.0	76.0 ± .45
	185.0	156.5
		± .68
	114.0	
	187.0 <	73.0
	299.5	59.7 ± .92
12:26:2	359.2	132.7

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1934phae.proj..632C

Oct. 7. 1934

Est. from Cuffey obs
Howells rec.

12:23:45

1.7

115.0 ✓ 113.8

187.5 ✓ 100.0 ± .65

287.5 213.8

146.2 ± .473

5.0 ⊙

109.0 ✓ 104.0

176.0 62.0 ± .81

114.0 ± .27

Rev. Phot. 194.0

270.0 ⊙

16.5 ✓ 106.5

112.5 66.5 ± .13

179.0 173.0

256.0 ⊙

2.0 ✓ 76.0 ± .15

93.0 113.2 ± .17

12:32:20 206.2 189.2

170.8

Mean = ± 0.38

− .02

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1934phae.proj_632C

EST from M

12-41-50

Oct 4-5 — U Cephei

13.0

99.9 — 86.9

188.8 — 99.8

288.6 — 186.7 — +.13

173.3

4.7 — +.16

107.0 — 102.3

193.4 — 87.5 — +.19

280.9 — 189.8

1702

116.5 — Mean = -.40

178.6 — 62.1

290.1 — 73.8 — -.86

3.9 — 135.9

-.96

109.3

183.0 — 73.7

299.5 — 53.1 — -1.05

1253 05 — 352.6 — 126.8

Recd m

14:02:00 — 1:03:35

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1934phae.proj..632C

Ties

Wednesday Oct. 16. 1934

Clock Correction

Radio 105	Watch
6:34:00	6:34:10

88 min. Variable B.D. +0° 4900

P.A. 505° 270°

Spectrum 5.7 6.8 Griffey obs. Howells rec.

10:05:15 266.0 Cr. dis.

342.2 Rev. Pht.

Start over.

8:22:52 469.0 Wandis. variable on right

155.0 Rev. Pht. 66.0

267.0 var. on left. 64.5 − .97

331.5 −130.5

Rev. Phot.

171.0 − .68

256.0 85.0

0.0 75.0 − .38

6:29 9 75.0 160.0

mean 8 25.60

8 26 0

+5 −10

13:25:50 G.M.T.

J.D. 27727.559607

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1934phae.proj_.632C

Oct. 16. 1934

8:29:32	177.0		
	257.0 ✓	80.0	−.21
	350.0	89.0	
	79.0	169.0	
	Rev. Phot.		−.29
	256.0		
	351.5 ✓	93.5	−.37
	90.0	67.0	
8:32:6	157.0	160.5	

M 8:30:49 $+5^h - 9^s$ = 13:30:40 G.M.T. J.D. 27727.562963

8:33:30	272.5		
	335.0 ✓	62.5	−.57
	82.0	88.0	
	170.0	150.5	
	Rev. Phot.		−.40
	355.0		
	82.5 ✓	87.5	−.22
	176.0	81.0	
8:39:23	257.0	168.5	

M 8:36:26 $+5^h - 9^s$ = 13:36:17 GMT. JD 27727.566864

8:39:45	352.0		
	73.5 ✓	81.5	
	166.0	90.5	−.15
	256.5	172.0	
	Rev. Phot.		−.38
	80.0		
	167.0 ✓	87.0	
	274.0	60.5	−.62
8:43:04	334.5	147.5	

M 8:41:24 $+5^h - 9^s$ = 13:41:15 GMT. J.D. 27727.570313

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1934phae.proj..632C

Oct. 16. 1934

8:45:26 65.0

162.0 77.0

264.0 81.5 -.41

345.5 158.5

Rev. Phot -.40

170.0

261.0 91.0

0.0 68.0 -.40

8:49:0 68.0 159.0

M 8:47:13

5 - 9

13:47:04 G.M.T.

J.D. 27727.574352

8:49:26 175.0

254.5 79.5

353.0 85.0 -.29

76.0 164.5

Rev. Phot. -.39

265.5

347.0 81.5

86.0 43.0 -.49

8:52:54 159.0 154.5

8:53

M 8:51:11

+5 -9

13:51:02 G.M.T.

J.D. 27727.577107

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1934phae.proj_.632C

Oct. 16. 1934

8:53.29	275.0		
	336.0	61.0	
	89.5	72.5	-.91
	162.0	133.5	
	Rev. Phot		
			-.73
	356.5		
	71.5	75.0	
	178.5	76.5	-.55
8:56:39	254.0	151.5	

8:54:64

8:55:83

5 -9

13:54:59 G.M.T.

J.D. 27727.579850

8:57:26	0.0		
	64.0	64.0	
	179.0	77.5	-.74
	256.5	141.5	
	Rev. Phot.		
			-.71
	63.0		
	164.0	81.0	
	271.5	63.5	-.68
9:00:16	335.0	144.5	

8:58:52

5 -9

13:58:43 G.M.T.

J.D. 27727.582443

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1934phae.proj..632C

V

9-21-0 90.4 H obs
150.6 60.2 Cu rea.
85.8 82.4
168.2 142.6 -.72

347.0 -.54
82.4 95.4
180.0 65.8 -.36
9-26-15 245.8 161.2

m 9-24-38
+5h -9s = 14:24:29 G.M.T.; J.D. 27727.600336
9-29 30 353.0
80.0 87.0
171.9 85.2 -.15
257.1 172.2

89.0 -.33
163.8 74.8
265.4 78.6 -.51
9-36-05 344.0 153.4

m 9-32-48
5 -9
14:32:39 G.M.T.,
J.D. 27727.60601

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1934phae.proj...632C

H. dk
Cu. rec

9-37-45 92.2
159.6 67.4
260.9 82.9 -.57
343.6 150.3

-.54

168.1
255.5 87.4
2.8 66.0 -.51
9-43-30 68.8 153.4
9-40-38

+5 : : -9 = 14:40:29 G.M.T. J.D. 27727.61145

9-45-43 181.0
250.5 69.5
350.0 83.0 -.53
73.0 152.5

-.49

264.0
345.8 81.8
9-50-44 89.1 74.9 -.44
9-48:144 164.0 156.7
5 -9

14:46:05 G.M.T.
J.D. 27727.61673

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1934phae.proj..632C

EST from 0h Tues. Oct 16 Hobo Curve

9-53-30 275.0

333.0 58.0

79.4 86.5 -.68

165.9 144.5

-.43

341.0

83.5 102.5

178.5 67.3 -.19

9 246.0 169.8

10-58-20

m 9-55:55

+5h -9s = 14:55:46 G.M.T. J.D. 27727.62205

10+00-05 1.1

64.9 63.8

165.0 99.0 -.42

259.0 157.8

-.70

83.0

160.3 77.3

273.0 52.6 -.98

10-9-20 325.6 129.9

m 10-4-42

+5 -9

15:4:33 G.M.T.

J.D. 27727.62816

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1934phae.proj..632C

Tues. 0810

10-11-20 91.2
155.8 646
266.2 683 −.92
384.5 1329

−.68

175.0
259.7 847
0.1 726 −.43
72.7 1573

10 [illegible]-55
m 10-14-80
10-15-[illegible]06
+5h − 9m = 15:[illegible]14:59 G.M.T. J.D. 27727.63540

10-20-15 178.4
252.6 74.2
344.0 998 −.11
83.8 1740

262.6 corr. dio mean = −.38
341.7 79.1
157.9 1131
10-27-10 271.05 1972 ±?
cs. dio (1678)

10-23-42
5 −9

79.1
15:23:33 G.M.T. 66.9 −.65
146.0

J.D. 27727.64135

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1934phae.proj..632C

Oct. 16.

Hobo
Cu rec

~~10-31-10~~ ~~340.8~~
94.5

10-34-50 335.10 Cu. dis
93.9 118.9
168.0 95.8 -.67
263.8 214.7
145.3

-.46

86.0
165.2 79.2
243.6 114.3 -.25
357.7 193.5
166.5

10-41-00
10-37-55
5 -8 = 15:37:47 G.M.T. J.D. 27727.65123

10-43-50 356.0
66.0 70.0
161.1 97.2 -.24
258.3 167.2

-.51

83.8
169.9 81.1
274.0 58.3 -.79
332.3 139.4

10-49-25

10-46-38
5 -8

15:46:30 G.M.T.
J.D. 27727.65729

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1934phae.proj..632C

Oct. 16

10:55:30 92.6
153.1 60.5
265.6 74.7 −.87
340.3 135.2

−.48

157.4
260.0 107.6
1.0 72.8 −.09
73.8 175.4

11 02 45
m 10-58-65
10-59-08
+06 5
5 −8
15:59:00 G.M.T. J.D. 27727.66597

11 07 45 183.0
247.8 64.8
353.8 86.2 −.56
80.0 151.0

−.65

265.0 79.6
344.6 62.1 −.74
96.6 141.7
11 13 35 158.7 Variable star to left.

11 10 40 / +5h 8m = 16:10:32 G.M.T.
J.D. 27727.67398

Ballon 8 31 0
watch 8 31 8s

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1934phae.proj..632C

Wed. Oct. 24. 1934

Clock correction — Howells

Balloon 103 — watch

12 12 30 — 12 12 27

Pamberga (324) RA. 2h 7m

S T. 2h 55m — δ 36° 29'

H.A. 48m W.

Still not to be found.

Thursday Oct. 25 1934

Howells

EST from Haven — Watch

Local δα = 23h 35m.4 , δ = −10° 26'

CS , SD = 10° 6157 (324)

11:33:05 — 249.5 sec. dis.

535.4 rev. 9m. — 85.9

65.4 — 86.3

151.7 — 172.2

Wrong identification & asteroid. Slight bump on I plate as star.

(11:42:00) — 2553 — Images finally engulfed in haze.

+49

40 13

11: 39: 24

Ballon 103 — Watch

11:36:34 — 12:32:00 — 12:31:56

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1934phae.proj...632C

Saturday Oct. 27. 1934

Clock correction

Balloon 103	watch
8:20:00	8:20:06

ν Cephei

RA $24^h\ 53^m\ 24^s$ δ $+81°\ 20'.2$

Sid. $23^h\ 5^m$

$1^h\ 50^m$ E.

cloudy 9:30 P.M.

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1934phae.proj..632C

Tuesday Oct. 30. 1934

Z.S.T. from hour

Clock correction
Balloon 103 watch
11:46:00 11:46:17

C.S.: H.D 21174
7m.16 (KO)

Pallas (2)
RA 3h17m.6 δ -25° 5'
ST 2h45m
HA 32m E.

JNMH observer
HJP Recorder

12:32:22

72.9			
148.1			
269.0	75.2		
316.0	47.0		
	122.2	+1.14	
87.5			
138.4	50.9	+.~~77~~85	
240.0	100.0		
340.0	150.9	+.56	
157.8		mean = +.80	
243.9	86.1		
356.9	54.9		
51.8	~~94.9~~ 141.0	+.75	
177.0			
231.1	54.1	+.72	
336.0	90.0		
66.0	144.1	+.69	

12:43:00
12:37:41
+5: :-17 = 17:37:24 G.M.T. J.D. 27741.7343

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1934phae.proj...632C

Oct. 30

12:47:15	157.8		UNMT obs.
	244.6	86.8	HJP Rec.
	305.5	52.9	
	47.4	139.7	+ .78
	145.7		
	226.6	80.9	+ .54
	340.0	83.1	
	63.1	164.0	+ .30
	261.6		Mean = + .61
	314.5	52.9	
	64.3	98.8	
	163.1	151.7	+ .54
	248.4		+ .68
	334.1	85.7	
	87.8	52.2	
12:58:19	140.0	134.9	+ .82

12:52:47

+5 -17

17:52:30 GMT J.D. 27741.7448

improved focus

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1934phae.proj..632C

Oct. 30

13
7:01:41

255.3			JNMth Obs.
317.9	62.6		HJP Rec.
78.4	85.5		
158.9	148.1	+.61	
246.3			+.83
319.6	73.3		~~+1.39~~
88.0	54.8		
142.8	127.3	+1.04	
358.3			Mean = ~~+1.20~~
46.6	53.3		+.96
166.4	72.8		
289.2	126.1	+1.06	
345.0			+1.08
59.8	74.8		
178.5	48.9		
227.4	123.7	+1.11	

13
7:11:00

13:06:20
+5 −17
18:06:03 G.M.T. J.D. 27741.7542

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1934phae.proj...632C

O-C 1.30

13 h: 13:50 355.9 UNMH 82
50.2 54.3 HJP Rec.
160.8 71.6
232.4 125.9 + 1.07

346.8 +1.04
62.7 75.9
177.5 52.4
229.9 128.3 + 1.01

~~1730~~
~~258.9~~
~~321.9~~ Rev. Phot
~~85.0~~

Mean = +.90

263.9
323.4 59.5
73.4 60.0
153.4 139.5 +0.78

256.3 +.77
324.4 68.1
78.0 72.8
13 h: 21:51 150.8 140.9 +.76

13:17:50
+5 -17
18:17:33 GMT. J.D. 27741.7622

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1934phae.proj..632C

Thursday ~~Oct.~~ Nov. 1. 1934

Clock corr.
Balloon 103 Watch
12: 44: 00 12: 44: 08

U Cef. Phot. T.
RA $0^h 53^m$ δ +81° 20'
ST $3^h 55^m$

+A $3^h 2^m$ W

Position 200°
EST from Sprocket 8.0
~~Midnight~~ noon

Howells of Cuffey Be

14-7-30 220.7 (Var dir
35 8.5 137.8
61.8 101.8
+63.6 239.6
120.4 +1.18

242.4
14: 11: 58 244.0 101.6 +1.08
+5 -8 48.5 129.0
19: 11: 50 G.M.T. 177.5 230.6
J.D. 27743.4999 129.4 +.99
320.0 145.5
78.5 69.4 Mean = +.72
171.2 187.9
240.6 142.1 +.15
333.8 91.8 +.36
64.6
14-16-25 140.5 +18.7
259.2 +.58
210.5/149.5

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1934phae.proj_.632C

Nov. 1

EST
From ~~midnight~~ noon

Howells obs
Cuffey Rea

14=17-59 = 21,4

83.2	121.6	
158.0	~~15~~ x2	
345.8	243.6	
	~~116.4~~	+ ~~1.27~~
33~~1.2~~	90.8	
62.0	126.2	
139.0	217.0	
265.2	143.0	+ .71
52.(		
172.6	120.5	Mean = +.76
243.0	94.4	
337.4	214.9	+ .67
	145.1	
58,9		
167.0	108.1	+.82
231.1	121.0	
14-26-10 352.1	229.1	
	130.9	+.96

14:22:4
.5 -8

19:21:56 GMT. J.D. 27743.8068

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1934phae.proj..632C

Nov. 1.

Cuffey obs.
Howell rec.

14:28:35

56.5 var. dir		
167.5	111.0	
243.5	95.5	
339.0	206.5	
	153.5	+.51
62.0		
164.5	112.5	+.64
235.0	107.0	
342.0	219.5	
Rev. Plot	140.5	+.76
146.0		
259.0	111.0	Mean = +.62
338.0	94.5	
72.5	205.5	
	154.5	+49
152.5		
249.0	96.5	+.60
322.0	121.0	
83.0	217.5	
	142.5	+.72

14:33:02

14:30:46
+5 -8
19:30:40 GMT J.D. 27743.8130

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1934phae.proj...632C

Nov. 1.

Cuffey obs.
JNMH Rec.

14:33:32 145.0
256.5 111.5
329.0 103.0
72.0 214.5
145.5 +.66

161.0
245.0 84.0
321.0 122.5 +.58
83.5 206.5
Rev. Phot. 153.5 +.51
~~447.0~~
227.0
346.0 119.0 Mean = +.62
63.5 97.5
161.0 216.5
143.5 +.70

247.0
332.0 85.0 +.67
51.0 118.5
14:38:43 169.5 213.5
14:36:8 146.5 +.64
+5 -8
19:36:00 GMT. J.D. 27743.8167

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1934phae.proj..632C

Nov. 1.

UNMH

14:43:05 233.6 var dir

355.6 122.0

65.7 96.6

162.3 218.6

141.4 + .75

239.8

343.6 103.8 + .91

46.6 130.7

179.3 234.5

Rev. flat 125.5 + 1.07

338.9

60.1 81.2 Mean = +.28

167.0 73.6

240.6 154.8 − .48

342.8

60.1 77.3 −.35

154.9 91.1

14:58:33 246.0 168.4 −.22

~~14:07~~

7

14:50:49

+5 −7

19:50:42 GMT J.D. 27743.8269

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1934phae.proj..632C

Nov. 1.

UNMH

15:03:00 338.3 ~~56~~

67.1 88.8

~~3~~171.0 68.6

239.6 157.4 − .43

346.8

56.8 68.0 −.38

154.9 94.7

249.6 162.7 −.33

Rev. plot.

57.0

169.3 112.3 Mean = 0

247.9 87.0

334.9 199.3

~~60.7~~ 160.7 +.37

62.6 ~~119.7~~

161.0 98.4

239.3 101.2 +.37

15:13:20 340.5 199.6

~~60.4~~

15:08:10 ~~47~~ 160.4 +.37

+5 −7

20:08:03 GMT J.D. 27743.8389

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1934phae.proj..632C

Nov. 1.

UNMH

15:16:20 61.4

156.3 94.9

255.7 70.3

326.0 165.2 −.28

69.2

146.5 77.3 −.21

236.7 95.3

332.0 172.6 −.14

Rev. Phot.

156.0 Mean = −.48

241.9 85.9

352.2 57.8

50.0 143.7 −.70

114.1 −.74

229.7 55.6

336.2 54.4

15:21:06 60.6 140.0 −.77

15:18:43

5 −7

20:18:36 GMT. J.D. 27743.8462

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1934phae.proj..632C

No. 1.

JNMH

15:28:50 159.3

242.0 82.7

347.6 57.4

45.3 140.4 -.47

170.0 -.76

223.0 53.0

332.7 88.4

61.1 141.4 -.75

Rev. flx

242.0 Mean = -.62

339.9 97.9

78.4 68.4

147.2 166.3 -.26

248.9 76.1 -.48

325.0 67.2

62.8 143.3 -.71

15:39:38 130.0

15:34:14

5 -1

20:34:07 GMT. J.D. 27743.8570

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1934phae.proj..632C

Nov. 1.

J.N.M.H

15:42:18

245.0		
334.9	89.9	
77.0	56.4	
133.4	146.3	−.65
260.4		−.65
315.9	55.5	
64.5	90.7	
155.2	146.2	−.65

Rev. fld

344.2		Mean² − .44
66.0	81.8	
151.2	93.8	
245.0	175.6	−.08
328.9		−.22
79.5	110.6	
176.0	51.0	
227.0	161.6	−.35

15:53:55

15:48:06

5 −1

20:47:59 G.M.T. J.D. 27743.8667

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1934phae.proj..632C

Nov. 1.

JNMH

16:02:00	356.7		
	41.1	42.4	
	156.6	82.3	
	236.9	124.7	-1.10
	338.4	~~79.6~~	
	58.0	79.6	-1.04
	176.9	50.1	
	227.0	129.7	-.99
	Rev. plot.		
	86.9		mean = -.60
	144.9	58.0	
	247.0	80.0	
	327.0	138.0	-.81
	66.0		
	154.2	88.2	-.16
	202.5	117.5	
16:13:15	320.0	205.7	+.49
		154.3	

16:04:38

5 -7

21:07:31 GMT. J.D. 27743.8803

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1934phae.proj..632C

Nov. 1.

JNMH

16:24:32 51.8

140.8 59.0

244.1 82.0 +

326.1 141.0 -.45

66.7 -.80

146.7 80.0

261.0 56.2

317.2 136.2 -.85

Rev. flat

179.9 Mean = -1.10

221.1 41.2

345.8 69.2

55.0 110.4 -1.41

165.1 -1.39

231.1 66.0

356.2 46.1

16:34:23 42.3 112.1 -1.37

J.D. 27743.8953.

16:29:28

5 -7

21:29:21 GMT.

Clock Correction

Ballon 103 Watch

17:15:30 17:18:37

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1934phae.proj..632C

Sunday Nov. 11.

Watch correction

Balloon 103	Watch
7:09:00	7:08:57

Sidereal time

3^h

$- \quad 23^h.5$

$+ \quad .5$

$2^h\ 37^h + 19^h\ 23^{h\ E.S.T.} = 22^h$ sid. T.

Bamberga (without eph. correction) (324)

RA $1^h\ 50^m.6$ $\quad \delta\ +35^\circ\ 43'$

ST 23^h ~~39~~ 43

~~$2^h\ 1+.6 \leq$~~ 7.6 No.

J Cep.

$0^h\ 53^m\ 24^s \quad +61^\circ\ 20$

$0^h\ 26^m$ ..

27^m ≤

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1934phae.proj..632C

Nov. 11

JNMH.

9:31:52	222.4 cs Qv		
	313.0 ✓	90.6	
	26.6	128.3	
	155.1	218.9	+1.22 −.75
		141.1	
	210.2		+1.30
	331.5 ✓	121.3	−.68
	43.3	90.6	
	133.9	211.9	+1.37 −.61
	Rev. Plot	148.1	
	356.6	107.9	Mean =
	56.5 ✓	132.6	−.98
	112.9	240.5	
	245.5	119.5	−1.20
	293.9	134.1	+−1.29
	71.0 ✓	111.4	
	123.6	248.5	
9 45 48	235.2	111.5	−1.38

9:38:50

+5 +4

14:38:54 G.M.T.

JD = 27753.610743

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1934phae.proj..632C

Nov 11.

JNMH

9:51:36	300.2		
	59.0 <	118.8	
	118.2	125.5	
	243.7	244.3	
		115.7	-1.29
	297.4		
	66.5 <	129.1	-1.26
	123.6	113.1	
	236.7	242.2	
	Rev Plot	117.8	-1.24
	49.1		
	134.6 <	85.5	Mean = -.80
	209.1	117.2	
	326.3	202.7	
		157.3	-.43
	-31.4		
	149.8 <	118.4	-.835
	234.0	76.0	
10:15:55	310.0	194.4	
		165.6	-.27

9:58:46

+5 +4

14:58:42.50 G.M.T.

JD = 27753.6242

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1934phae.proj..632C

Nov. 11.

JNM+f

10 7 45	50.8		
	81.7	80.9	
	212.3	111.7	
	324.0	192.6	
		167.4	-.24
	36.4		
	139.0	102.6	-.19
	230.8	84.9	
	315.7	187.5	
	Rev Plot.	172.5	-.14
	129.0		
	228.6	99.6	mean = -.58
	296.4	129.6	
	66.0	229.2	
	66.0 var. dir	130.8	-.96
	116.9		
	229.4	52.9	-.96
10:19:47	307.5	78.1	
		131.0	-.96

10:13:46

+5 +4

15:13:50 GMT

JD = 27753.6346

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1934phae.proj..032C

Nov 11

JNMH

10 21 30 55.0 var. dia.

121.9 ←	66.9		
241.9	61.1		
303.0	128.0	-1.02	
62.2		-.23 89	
120.0 ←	57.8		
227.2	83.4		
310.6	141.2	-.75	
Rev Plt			
128.8			
240.5 ←	111.7	Mean=-.40	
325.2	74.4		
39.6	186.1		
	173.9	+.11	
142.0			
218.6 ←	76.6	+.08	
305.9	106.1		
10 32 40 52.0	182.7		
	177.3	+.04	

10:27:05

+5: :04

15:27:09 GMT

JD = 2775.6439

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1934phae.proj..632C

Nov. 11.

JNMH

10 ~~35 46~~

37 46 234.1 c? Dup

306.0 71.9

40.5 100.7

141.2 172.6

216.4 ±0.

323.4 107.8

49.0 79.6

128.6 187.4

Rev Plt. 172.6

316.4

49.3 92.9 Mean = −.14

135.0 92.0

227.0 184.9

175.1 −.09

315.2

47.1 91.9 −.2748

123.7 112.4

10:49:5 236.1 2043

155.7 −.46

10:43:24 ~~GMT~~

+5 +5

15:43:29 GMT

J.D. = 27753.6552

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1934phae.proj...032C

Nov. 11.

JNMH

10 53 57	306.5 ca div.		
	56.7	116.2	
+ mean ½ int.	137.0	83.5	
6h 16s	220.5	193.7	
+5h 5s		166.3	-.26
	3.5.6		
16:00:18	45.8	90.2	
G.M.T.	123.7	114.3	-.36
	238.0	204.5	
JD = 27753.6669	Rev Plot.	155.5	-.47
	54.0		
	125.0	71.0	mean = +.10
	229.3	80.6	
	309.9	151.6	+.54
	50.4		
	135.5	85.1	+.55
	235.0	65.8	
	300.8	150.9	+.56

Clock on balloon 103
11:26:30

Watch
11:26:25

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1934phae.proj..632C

Sunday, Nov. 25, 1934

Clock Corr.
Ballou 103 watch
6: 14: 00 6: 13: 58

15" E. Eq. Phot. T. JNMH obs.

Variable P51) +0° 4900
RA 22h 30m.4 S +0° 47'
S.T. ~~21h 47m~~
H.A. ~~1h 33m~~ E.

Clock chain two turns.
adjusted mitre.

S.T. ~~22h 6m~~
H.A. ~~24h 5m~~ E

P. A. 256, Sprocket 7.0
c.s. marked on plate MA 334.

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1934phae.proj..632C

Nov. 25.

EST. JNMH

from Nov.

8:04:35 319.5 var. dir.

40.5 81.0

135.7 93.4

229.4 174.7 −.10

Rev. Phot.

47.1 mean = −.22

135.3 88.2

232.2 173.8

8:12:50 306.0 162.0 −.34

8:08:42

5 3

13:08:45 GMT. J.D. 27767.5477

8:25:10 54.9

122.9 68.0

226.0 97.9

323.9 165.9 −.27

Rev. Phot

123.0

272.1 119.1 mean = +.16

315.6 91.4

8:33:45 47.4 210.9

8:29:28 149.1 +.59

5 3

13:29:31 G.M.T. J.D. 27767.5622

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1934phae.proj..632C

Nov. 25

JNMH

8:36:45	126.1		
	226.5	100.4	
	302.8	118.7	
	61.5	219.1	
	Rev. flat	140.9	+.76
	222.2		
	322.0	99.8	
	45.5	92.5	Mean = +.50
8:45:20	138.3	192.6	
8:41:02		167.4	+.24

5 3

13:41:05 G.M.T. J.D. 27767.5702

8:47:55	226.6		
	314.3	87.7	
	46.3	94.5	
	140.8	182.2	
	Rev. Flat	177.8	+.04
	303.2		
	58.3	115.1	Mean = +.34
	133.2	97.1	
6:56:07	230.9	212.8	
8:52:01		147.2	+.63

5 03

13:52:04 GMT. J.D. 27767.5778

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1934phae.proj..632c

Nov 25

JNMH

8:58:32	306.1		
	52.0	105.9	
	125.4	113.1	
	241.5	219.0	
	Rev. Phot.	141.0	+.75
	43.0		
	140.0	97.0	Mean = +.50
	226.1	95.9	
9:06:04	322.0	192.9	
9:02:18		167.1	+.24
5 3			
14:02:21 G.M.T.	J.D 27767.5849		

9:09:25	46.8		
	133.5	86.7	
	224.0	91.1	
	315.1	177.8	-.04
	Rev. Phot.		
	123.4		
	235.8	112.4	Mean = +.30
	307.2	101.2	
9:17:31	44.5	213.6	
9:13:28		146.4	+.65
5 3			
14:13:31 G.M.T.	J.D 27767.5928		

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1934phae.proj..632C

Nov 25.

JNMH

9:19:15	126.9		
	226.6	101.7	
	311.2	102.5	
	53.7	204.2	
	Rev. flat.	155.8	+.46
	226.2		
	316.1	91.9	Mean = +.01
	54.0	74.8	
9:25:25	26.8	156.7	−.44

9:22:20

5 3

14:22:23 G.M.T. J.D. 27767.5989

9:28:33	235.4		
	304.7	68.8	
	51.1	74.5	
	125.6	143.3	−.71
	Rev. flat.		
	316.4		Mean = −.41
	47.5	91.1	
	140.6	83.1	
9:34:25	223.7	174.2	−.11

9:31:29

5 3

14:31:32 G.M.T. J.D. 27767.6053

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1934phae.proj..f32c

Nov. 25

JNMH

9:39:04	314.2		
	43.7	89.5	
	131.6	97.5	
	229.3	187.0	
	Rev. ghost.	173.0	+.13
	54.3		
	137.0	76.7	Mean = -.16
	232.4	79.6	
9:46:07	312.0	156.3	-.45
9:42:36			
3	3		
14:42:34	G.M.T.	J.D. 27767.6130	

9:53:07	53.1	van. dia.	
	130.3	77.2	
	229.1	87.9	
	317.0	165.1	-.28
	Rev. ghost.		
	121.0		Mean = +.11
	227.5	106.5	~~Mean = -.08~~
	231.8	~~80.5~~ 99.5	
10:00:45	312.3	~~187.0~~ 206.0	-154.0
9:56:58		~~173.0~~	~~+.13~~ +.50
5	3		
14:57:01	G.M.T.	J.D. 27767.6229	

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1934phae.proj..632C

Nov. 25

JNMH

10:02:20	53.9	cs. dis.	
	133.2	79.3	
	231.5	78 7.9	
	309.4	157.2	+.43
	Rev. flat.		
	130.2		mean = +.23
	226.6	96.4	
	321.3	81.9	
10:08:35	43.2	178.3	+.03
10:05:28			
5 3			

15:05:31 G.M.T. J.D. 27767.6289

Moon became too bright for variable to be measured.

Clock corr.

Radio on 103	Watch
12:51:00	12:50:56

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1934phae.proj...632c

Saturday. Dec. 1.

JNMH

Watch correction

Balloon 103	Obs. watch.
10:30:00	10:30:04

Pallas (2)

RA $2^h 52^m$ δ $-29°25'$

ST $3^h 35^m$

HA 43^m W

R CMa.

RA $7^h 13^m$ $\delta = -16°$

ST $4^h 46^m$

HA $2^h 25^m$ E.

Clouds!

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1934phae.proj..632C

Tuesday, Dec. 4.

RZ Cass. RA. $2^h\ 36^m$ δ 69°.0

Pallas (2)
RA $2^h 50^m$ δ −29°24'
S.T.

Clouds !!

Saturday Dec. 8

Clock Corr. 15"Sid., Phot. T.
Balloon 153 Watch
5:57:00 5:56:43

BD +0° 4910 δ + 47'
RA. $22^h\ 30^m.4$
ST. $23^h\ 28^m$
H.A. 58^m W

Watch stopped. New correction
with obs. watch
Balloon 153 Watch
6 55 00 6 54 39
9 45 00 9 45 25

AA (Varnum's tripelter) 2466.5
Shutter 7.3

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1934phae.proj..632c

Dec. 8

EST from Noon

JNMH

6:56:06	134.4 var dir.		
	224.6 <	80.2	
	305.7	104.0	+ .27
	52.7	194.2	
	Rev. plot	165.8	
	223.6		mean = +.12
	319.9 <	96.3	
	46.8	82.1	
7:05:50	130.9	176.4	-.03

7:01:59
5 +20
12:02:19 G.M.T. J.D. 27780.5016

7:10:11	227.5 var. dir.		
	315.0 <	87.5	
	40.2	102.6	+ .19
	142.8	190.1	
	Rev. plot.	169.9	-
	310.0		mean = +.24
	51.5 <	101.5	
	134.2	93.4	
7:19:27	227.6	194.9	
		165.1	+.28

7:14:48
5 +16
12:15:05 G.M.T. J.D. 27780.5105

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1934phae.proj..632C

Dec. 6

JNMH

7:25:26 312.1

54.0 ← 101.9

126.6 108.7 +.59

237.5 210.6

Rev. flat 149.4

32.3

136.1 ← 103.8 Mean = +.42

224.7 89.3

7:33:56 314.0 193.1

7:29:42 166.9 +.25

5 +12

12:29:54 G.M.T. J.D. 27780.5207

7:39:30 42.7 var. dens.

133.9 ← 91.2

222.8 95.1

317.9 186.3

Rev. flat. 173.7 +.12

126.0

240.4 114.4 Mean = +.38

312.6 ← 99.5

7:44:35 52.1 213.9

7:44:02 146.1 +.65

5 +8

12:44:10 G.M.T. J.D. 27780.5307

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1934phae.proj..032C

Doc. 8.

JNMH

7:53:26	129.0		
	230.8 ∠	101.8	
	307.0	105.5	+.52
	52.5	207.3	
	Rev. fhs.	152.7	
	229.0		mean = +.07
	316.6 ∠	87.6	
	53.6	72.4	-.38
8:02:15	126.0	160.0	

7:57:50

5 +4

12:57:54 G.M.T. J.D. 27780.5402

8:05:18	235.7		
	301.0 ∠	65.3	
	47.8	81.7	-.63
	129.5	147.0	
	Rev. fhs.		
	308.0		mean = -.16
	49.6 ∠	101.6	
	142.3	94.8	+.31
8:11:30	237.1	196.4	
		163.6	

8:08:24

5 +1

13:08:25 G.M.T. J.D. 27780.5475

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1934phae.proj..632C

Dec. E.

JNMH

8:15:38 317.1

49.0 < 91.9

132.0 103.5 +.29

235.5 195.4

Rev. Phot. 164.6

49.1 mean = -.08

134.0 < 84.9

236.4 71.5 -.45

8:21:51 307.9 156.4

8:18:44

5 - 2

13:18:42 G.M.T. J.D. 27780.5547

8:24:19. 55.0

127.7 < 72.7

224.3 90.7 -.32

315.0 163.4

Rev. Phot.

126.1 mean = +.14

230.5 104.4

306.4 < 107.4 +.61

8:30:56 53.6 211.8

8:27:38 148.2

5 - 4

13:27:34 G.M.T. J.D. 27780.5608

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1934phae.proj..032C

Dec. 8.

JNMH

8:35:27 123.5

240.3 116.8

310.2 104.8 +.81

55.0 221.6

Rev. flat. 138.4

236.5 mean = +.27

314.5 78.0

47.0 87.5

8:42:49 134.5 165.5 -.27

8:39:08

5 -7

13:39:01 G.M.T. J.D. 27780.5688

8:48:40 224.8

317.8 ~~89.0~~ 89.0

137.5 cs. dis. 91.3 → 88.7 } var. dis.

224.8 ~~180.3~~ 177.7 -.04

Rev. flat. ~~179.7~~

~~133.1~~ 54.0 mean = +.24

133.1 cs. dis. 79.1

236.3 cs. dis. 73.3 } cs. dis.

8:56:11 309.6 152.4 +.53

8:52:26

5 -11

13:52:15 G.M.T. J.D. 27780.5780

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1934phae.proj..632C

Dec. 8.

UNMH

9:01:15	124.3 var. dir.		
	237.0 <	112.7	
mean.			
9:04:44	312.6	94.5	
5 -14	47.1	207.2	+.52
14:04:30 G.M.T.	Rev. flat.	152.8	
J.D. 27780	228.3		
.5864	322.0 <	93.7	mean = +.387
	39.0	98.2	
9:05:12	137.2	191.9	+.22
		168.1	

RW Tau.

Clock corr.

Ball no 103 watch

9:46:00 9:45:57

Pos. 1855 (Prosper). BD # +27° 623

3h 55m.0 δ 27° 43'.3

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1934phae.proj..032C

Dec 8 1934

R C Ma

~~θ~~

α 7 13 −16.1

θ 4 00

t 3 13 E

4 obs
Cu Rec

11-17-50	342.3 var dis	
	220	39.7
	174.1	19.1
	193.2	58.8
	35 1.3	
	11.8	20.5
	160.2	42.6
21-30	202.8	63.1
24-01	262.2	
	288.3	26.1
	84.3	13.4
	98.0	39.4
	264.5	
	278.7	14.2
	75.2	29.8
28 10	105.9	44.0

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1934phae.proj..632C

Dec 8 Hoke

Kcma

11-29-40 260.0
282.4
82.0
100.7

263.8
282.3
78.6
34-42 105.9

36 02 347.4
15.0
172.9
194.3

351.7
11.0
164.0
39 50 199.6

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1934phae.proj..032C

Dec. 6 JC obs
JNM+H Rol

~~5613~~ ~~1945.2~~ ~~-65~~ ~~VAA~~ dia

11:57:17 167.0 var. dia
195.5 <
351.5
16.5

168.0
195.5 <
345.5
12:01:08 19.6
Rev. Phot.

12:04:20 259.2
246.0 <
81.0
99.9

262.8
257.5 <
80.2
12:07:35 105.6

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1934phae.proj..632C

Dec. 6: JC obs.
JH Rec.

12:09:13 261.0 var. hia
284.0
83.0
102.0

266.5
285.0
19.9
12:12 23 107.0
Ra. Phot.
~~12:14:13 203.5~~
"
12:15:10 343.0
20.5
169.0
191.2

349.5
16.9
163.5
12:17:53 193.0

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1934phae.proj..032C

Dec. 8 J C obs
J H Rec.

346.0
-19.5 var dis
166.5
+946.0

348.6
14.0
12:21:19 157.5
202.5
Rev Phot

12:23:24 259.0 cs dis
76.0
~~102.5~~ 100.0
~~55.0~~ 26 263.0

~~193.0~~ 260.0
~~+92.0~~ 63.0
103.9

12:29:41 259.0

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1934phae.proj..632C

BRRAR

Rec B

H obs

au rec

RCMa

12 44-55 71.0 < variation

108.1

265.0

282.0

91.3

98.1

295 ~

12 49-20 294.0

50.45 160.7

204.8

349.2

13.2

171.0

194.1

331.4

54-41 26.3

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1934phae.proj...032C

The following measures were made with the 12 inch

R C Ma

α 7 13 −16.1
δ 6 35
t 0 38 E

H obs
on Rec

1-53-5	161.0	
	200.1	39.1
	352.4	78.6
	11.0	67.7
	172.5	
	192.3	
	338.9	
	25.2	
2-0-30	255.9	
	283.5	
	81.4	
	103.7	
	259.8	
	281.8	
	79.3	
2-5-8	105.0	

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1934phae.proj..632C

12 inch Dec 8-9 H obs
RCMa Cu Rec

2-6-25	256.9
	284.6
	82.7
	103.0
	262.0
	281.2
	77.2
2 12 30	107.3
2-13-05	347.4
	20.9
	171.1
	193.7
	349.0
	12.1
	163.8
2-17-2	198.7

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1934phae.proj..032C

EST

from hwm

Dec. 8 JC obs.
JNMH Rec.

14:18:13 165.5 vanishes.
196.2 ✓
350.5
10.0

171.0
192.2 ✓
346.2
14:21:25 13.5
Rec. phot.
14:22:55 251.0
258.5 ✓
82.0
~~102.~~ 103.0

~~260.5~~ 262.2
281.0 ✓
77.5
14:27:43 104.0

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1934phae.proj..632C

Dec. 8. JC Obs.
JH Recording -

14:28:20 259.0
284.0 ∠
82.5
104.5
~~260.5~~
260.5
284.0 ∠
79.5
14:31:26 107.0
Rev. F
14:33:56 ~~440~~ 346.0
13.5 ∠
166.2
195.5

346.5
17.0 ∠
173.0
14:37:10 193.5

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1934phae.proj...032C

Dec. 8. JC obs.
JH Rec.

37
14:50:50 350.8
12.2 <
169.0
195.0

340.0
12.6 <
173.0
14:4:25 194.0
Rev. flux.

~~14:42:25~~ ~~102.0~~
14:42:16 80.0
102.2 <
259.5
252.5

50.8
104.0 <
261.0
14:46:4 256.2

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1934phae.proj..632C

12 inch

Dec 8-9

R C Ma

Hobs
Corrs

2-47-40 263.0
283.0
78.9
103.0

256.2
288.0
82.3

2-52-01 102.1

2-52-58 353.4
12.2
163.9
196.2

350.3
19.4
170.4

2-57-5 190.3

Clock corr.

Fallon 103 — Watch

15:06:30 — 15:06:15

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1934phae.proj...032C

Sunday Dec. 9. 1934

.15" E.E. Phot T. JNM 1t

Clock corr.

Balloon 103 watch

7:25:30 7:25:30

BD +0° 4900

RA 22h 30m.4 δ +0° 47'

ST. 24h 57m

HA 2h 27h. W.

7:52:53	139.9	var. dis.	
	222.2 <	82.3	
	307.2	107.8	
	55.0	190.1	+.19
	Rev. Phot.	~~169.9~~ 169.9	
	220.6		
	322.2 <	101.8	mean = +.14
	50.0	83.1	
8:00:26	133.1	184.9	
7:56:40		175.1	+.09
15			

12:56:40 G.M.T. J.D. 27781.5394

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1934phae.proj..632C

Dec. 9.

JNM H

8:04:27 233.0

319.5 < 86.5

44.3 96.8

141.1 183.3 +.06

Rev. plot. 176.7

311.7 mean = +.19

54.6 < 102.9

132.6 93.8 +.32

8:13:50 226.4 196.7

8:09:08 163.3

+5

13:09:08 G.M.T. J.D. 27781.5480

8:15:47 ~~323.9~~

~~44.5~~

8:21:00 311.9 var. dir.

51.2 < 99.3

126.0 111.0

237.0 210.3 +.58

Rev. plot. 149.7

41.1

142.5 < 101.4 mean = +.48

224.1 98.9

8:28:14 323.0 200.3

8:24:39 159.7 +.39

5 +1

13:24:~~38~~ 40 G.M.T. J.D. 27781.5588

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1934phae.proj...032C

Dec. 9.

JNMH

8:30:15	46.0		
	135.4	87.4	
	219.6 <	103.2	
	322.8	190.6	
	Rev. flat.	169.4	+.20
	132.4		
	237.1	104.7	
	316.0 <	91.8	Mean = +.26
8:38:30	47.8	196.5	
8:34:22		163.5	+.31
5 '			
8:34:23 G.M.T., J.D. 27781.5656			
	lost field; reset with finder.		
8:47:59	133.5		
	231.0 <	97.5	
	314.1	98.9	
	53.0	196.4	
	Rev. flat.	163.6	+.31
	224.3		
	320.8 <	96.5	Mean = +.12
	48.0	79.2	
8:56:38	127.2	175.7	−.08
8:52:18			
5 '			
8:52:19 G.M.T. J.D. 27781.5780			

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1934phae.proj...632C

Dec. 9.

JNMH

8:58:37 239.6

304.2 < 64.6

42.1 87.9 −.53

130.0 152.5

Rev. flat. mean = −.42

323.6

44.6 < 81.0

137.0 82.7 −.31

9:05:08 219.7 163.7

9:01:52

5 '

14:01:53 G.M.T. J.D. 27781.5846

9:07:50 323.9

43.2 < 79.3

135.3 93.1 −.14

228.4 172.4

Rev. flat. mean = −.12

45.5

136.8 < 91.3

231.7 83.0 −.11

9:16:05 314.7 174.3

9:11:58

5 '

14:11:59 G.M.T. J.D. 27781.5917

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1934phae.proj..032c

Dec. 9.

JNMH

9:18:14	55.7		
	128.0 <	72.3	
	226.1	93.9	-.26
	320.0	166.2	
	Rev. flat.		
	135.4		
	229.4 <	94.0	Mean = -.17
	3.9.6	90.3	
9:25:55	49.9	184.3	-.08
9:22:06		175.7	

5 ___ 1

14:22:07 G.M.T. J.D. 27781.5987

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1934phae.proj..632C

Dec. 9.

JNMH

Pallas (2)

RA $2^h 47^m$ $\delta -29°25'$

<T $3^h 25$

$+^m 22$

34^m W.

Watch stuck for some minutes.
Correction afterwards:

Balloon 103	Watch.
11:36:00	11:26:28
Reset.	
Balloon 103	Watch.
~~11:36:00~~	~~11:26:28~~
11:39:00	11:36:54
13:08:30	13:08:23

C.S. (1) $-29°$ 1088 . $7^h.7$

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1934phae.proj..632C

Dec. 9.

UNMH

9:41:10 146.2 ast. dis.
220.3
306.7
51.5

125.6
236.9
317.3
42.3
Rev. flust.
232.6
307.2
40.4
135.8

227.8
315.5
47.9
10:53:30 122.7

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1934phae.proj..632C

Dec. 9.

JNMH

10:56:19 231.4.
307.6 ∠
45.3
139.0

222.5
317.6 ∠
53.9
125.6
Rev. flux.
317.0
47.0 ∠
120.0
238.8

301.0
56.7 ∠
134.9
11:09:50 227.3

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1934phae.proj..632C

Dec. 9.

JNMH

11:11:25 308.9
43.9 <
127.1
236.8

302.9
55.2
134.9 <
231.2
Rev. flut.
56.0
133.1 <
229.1
321.7

43.0
135.2 <
233.8
304.8

clock stuck; started immediately reading
11:15:35

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1934phae.proj..632C

Dec. 9.

JNMH

11:44:33 47.9
127.9 <
228.7
311.9

47.2
134.7 <
230.1
310.0

Rev. plot.
126.0
237.1 <
303.2
56.7

120.0
234.0 <
3.2
11:56:08 47.4

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1934phae.proj..632C

Dec. 9.

JNMH

12:01:42 120.8
228.5 <
302.1
55.2

123.7
234.0 <
307.9
50.6
Rev. flat.
230.0
309.7
45.7 <
131.2

227.7
309.3 <
44.9
12:13:17 133.2

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1934phae.proj..632C

Tuesday Dec. 11. 1934

UNMH

Cl. corr.
Ballou 153 Watch
ε 32 00 ε 31 39

RW Tau.

RA $3^h\ 55^m$ δ $+27°\ 43'$
ST. $2^h\ 13^m$
HA $1^h\ 42^m$ E

Position angle 337, spectrum 10.9 for var. and c.s. in coincidence.
c.s. = BD $+28°\ 610$ $8^m.3$

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1934phae.proj..632C

Dec. 11. JNMH

9:11:03 298.2 Ls dis
60.0 <
131.1
228.5
309.6
48.7 <
124.9
235.9
Rev. flux.
24.8
149.8 <
303.5 vanishes.
49.9

137.3
226.1 <
317.8
9:23:26 36.0

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1934phae.proj..632C

Dec 11

9:31:15	145.0	Nan. dis	JNMH obs
	226.2	81.2	NJP Rec
	318.6	95.0	
	48.6	176.2	
	127.7		
	228.9	101.2	
	323.8	65.2	
9:35:43	29.0	166.4	
9:37:20	240.6		
	303.9	63.3	
	51.3	87.7	
	139.0	151.0	
	225.7		
	308.0	82.3	
	56.4	66.7	
9:40:56	123.1	149.0	

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1934phae.proj..632c

Dec 11

JNMH obs
HVP Rec

9 ~~10~~ 1:44:49	238.5		
	302.2	63.7	
	46.6	86.2	
	132.8	149.9	
	229.0		
	310.5	81.5	
	51.1	76.7	
	127.8	158.2	
	318.6		
	24.2	65.6	
	129.3	99.5	
	228.8	165.1	
	304.2		
	52.6	108.4	
	204.9	119.1	60.9
9:55:17	324.0		169.3

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1934phae.proj..632C

Dec 11

JNMH obs
HJP Rec

10:02:56	325.1		
	39.2 ←	54.1	
	129.0	94.1	
	223.1	148.2	
	310.0	98.0	
	48.0 ←	94.7	
	133.6	192.7	
10:08:27	228.3	167.3	
	Phot.		
10:11:21	50.3		
	128.0	77.7	
	222.7 ←	96.7	
	319.4	174.4	
	44.3		
	138.0 ←	93.7	
	304.3 104.1	75.9	
10:17:25	50.4	169.6	

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1934phae.proj...632C

Dec. 11.

10:20:53 132.6 ∠ L.S. Dio.

223.0 90.4

315.5 83.3

38.8 173.7

141.0

220.9 79.9

314.3 96.8

51.1 176.7

Plut.

229.2

303.7 74.5

49.7 77.9

127.6 152.4

224.5

309.4 84.9

57.0 65.1

10:34:04 122.1 150.0

UNMH obs
HJD Rec.

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1934phae.proj..632C

Thursday Dec. 13 1934

UNMH

SW Cyg 20 02 45.9
BD +45° 3062

Clock corr.
Radio 103
4 17 00

Watch
4 16 23

RA 20h 02m
ST 1h 20m
HA 5h 18m W

Clouds.

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1934phae.proj...632C

Friday Dec. 14, 1934.

LEC Watch 7^s slow at 15-27-00 EST from Noon

Nova Herculis 1934

Comparison * at 18^{h}04.^{m}7, +45° 45' (1855) #2462 (8.5)
Index A 119° Separation 8.1

E.S.T. from Noon

Nova brighter and dis

			LEC Phot T	Obs Per
15-47.2	272.3			
	264.2	8.1		
	92.9	6.5		
	864	14.6	5.98	

Assumed mag of this comp = 6.82

	272.3		5.7
	263.8	8.5	
	94.8	9.0	
	85.8	17.5	5.58

- 5.66

	364.8		
	353.9	10.9	
	183.1	9.5	
	173.6	20.4	5.25

	362.3		554
	354.3	8.0	
	182.4	7.7	
1602.0	174.7	15.7	5.82
			22.63

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1934phae.proj..632C

Friday Dec. 14, 1934

Nova Herculis 1934.

II

16-27.8	362.1			
	354.0	8.1		
	184.0	8.9		
	175.1	17.0	5.64	
	364.0			
	353.9	10.1		
	183.0	9.0		
	174.0	19.1	5.39	
				−5.74
	272.7			
	263.9	8.8		
	93.6	7.9		
	85.7	16.7	5.68	
	271.9			
	265.8	6.1		
	92.2	6.9		
16-40.8	85.2	13.0	6.23	
			22.94	

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1934phae.proj...632C

Friday Dec. 14, 1934

Nova Herculis 1934.

III

16-51.0	272.3		
	265.0	7.3	
	92.9	6.9	
	86.0	14.2	6.04
	271.2		
	263.0	8.2	
	93.0	8.4	
	84.6	16.6	5.70
			− 5.71
	183.1		
	173.1	10.0	
	363.3	8.9	
	354.4	18.9	5.41
	182.9		
	174.1	8.8	
	362.8	7.9	
17-03.5	354.9	16.7	5.68
			22,83

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1934phae.proj..632C

Friday Dec. 14, 1934

Nova Herculis 1934

IV

17-10.1	182.8			
	174.3	8.5		
	362.9	8.1		
	354.8	16.6	5.70	
	182.8			
	173.7	9.1		
	363.3	9.0		
	354.3	18.1	5.51	
				− 5.77
	92.9			
	85.0	7.9		
	272.6	8.5		
	264.1	16.4	5.72	
	92.8			
	86.1	6.7		
	271.0	6.8		
17-25.1	264.2	13.5	6.15	
			23.08	

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1934phae.proj...632C

Friday Dec. 14, 1934.

Nova Herculis 1934

V

17-42.8	92.4			
	84.6	7.8		
	272.2	7.5		
	264.7	15.3	5.87	
	93.5			
	86.1	7.4		
	271.5	7.7		
	263.8	15.1	5.90	
				-5.71
	363.7			
	354.0	9.7		
	183.0	8.8	5.46	
	174.2	18.5		
	362.3			
	354.0	8.3		
	183.2	8.9		
17-54.1	174.3	17.2	5.62	
			22.85	

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1934phae.proj..632C

Friday Dec. 14, 1934

Nova Herculis 1934

VI

17-55.4	362.6			
	354.5	8.1		
	183.2	9.3		
	173.9	17.4	5.59	
	363.8			
	354.7	9.1		
	183.0	9.9		
	173.1	19.0	5.40	
				-5.62
	273.2			
	265.0	8.2		
	93.2	8.6		
	84.6	16.8	5.67	
	272.4			
	265.0	7.4		
	93.2	8.1		
18-05.5	85.1	15.5	5.85	
			22.51	

This set taken in strong damn and humidity.

LEC Watch 30^s slow at 18-40-00 EST from noon

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1934phae.proj..632C

Sat. Dec 15, 1934 + cuffey obs
+ cuffey rec

Nova 1934

~~Hekr~~

circle A 123°

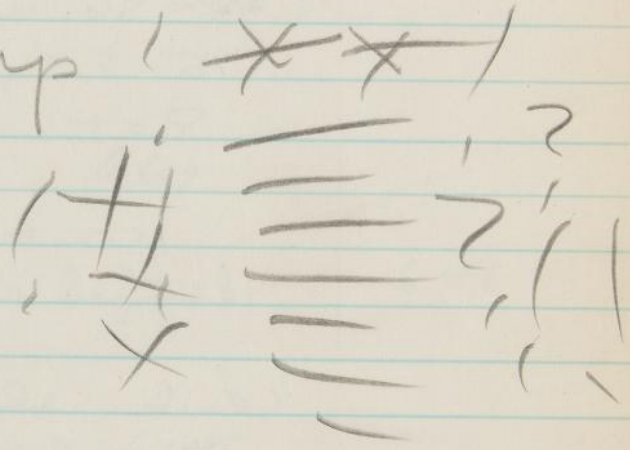
~~separation~~ 8.2

CS 18 04.7 +45°45'

Watch 21's slow $s = 30\ 00$ / watch
$s = 29\ 39$ — Ballon

Clouded up ~~* * *~~

6.30



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1934phae.proj..632C

Monday Dec. 17 1934

JNMH obs.

EST from Noon

Clock correction

Balloon 103	Watch
6 37 30	6 37 46

Nova Her. 1934

RA $18^h\ 04$ δ +46°

ST $0^h\ 40$

$6^h\ 36$ W

15" S.Sq. ; Photometer T

Position angle 115, Spectrograph 8.2

c.s. marked 1 on chart:

identified as BD +45 2662, $8^h.5$

Clock slipping.

Found ~~worm~~ worm on ~~sector~~ not engaging, 9:00.

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1934phae.proj..622C

Dec. 17

JNMH

Nova Her.

Obscure ??

7:29:20	264.1 nova dis.		
	268.9 r.i.	4.8	
	83.9	4.1	
	88.0	8.9	6.82
	263.9		6.76
	270.0 <	6.1	
	84.3	4.4	
	88.7	10.5	669
	Rev. Phot.		
	352.8		6.46
	0.1 <	7.3	
	174.8	6.2	
	181.0	13.5	6.15
	353.0		6.16
	0.0 <	7.0	
	174.9	6.4	
7:52:20	181.3	13.4	6.16

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1934phae.proj..632c

Dec. 17

JNMH

7:59:25 172.9

179.9 < 7.0

354.0 6.0

0.0 13.0 623

6.12

172.8

179.2 < 6.4

354.2 8.6

2.8 15.0 592

Rev. flux.

6.44

264.0

269.0 < 5.0

84.9 4.1

89.0 9.1 7.06

6.76

263.9 5.8

269.7 < 5.6

84.3 11.4 6.51

8:20:55 89.9

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1934phae.proj..632C

Dec. 17.

JNMH

Y Cam. BD +76 286

RA $7^h\ 21^m.6$ S $+76°\ 23'$
ST $3^h\ 6^m$
HA $4^h\ 15^m.6$ E

Pos. angle 74, of rocket 9.1
C.S. identified as BD +76° 281, $9^m.3$

9:49:56	324.1 cs. dis.
	28.0 <
	141.6
	213.9
	327.4
	31.7 <
	144.2
9:58:07	210.9
	Rev. flux.
10:00:32	59.5
	115.0 <
	236.0
	299.2
	51.2
	118.4 <
	237.6
10:08:30	299.0

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1934phae.proj..632C

Dec. 17.

JNMH

10:19:20	56.7
	119.8 ←
	234.6
	296.7
	54.0
	116.0 ←
	236.7
10:25:25	296.9
	Rev. flux.
10:28:34	139.3
	211.8 ←
	320.0
	34.8
	140.8
	215.2 ←
	320.9
10:35:15	27.9

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1934phae.proj..632C

Dec. 17

VNMH

10:41:58 1424.7

2130 <

3230

29.3

1433.1

3201 <

31.8

10:56:38 1452

Rev. flux.

10:58:54 3013 var. dis.

59.5 <

116.7

234.9

3000

54.0 <

116.2

11:04:52 2356.1

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1934phae.proj..632C

Dec. 17.

JNMH

11: 08:56 51.3 Cts. Dis.

118.6

234.6

299.4

54.6

119.4

235.4

11:14:33 299.1

Rev. shot.

11:16:28 141.6

211.1

314.1

41.1

133.7

215.7

313.6

11:21:27 40.6

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1934phae.proj..632C

Dec. 17.

JNMH

11:25:09 136.2
213.3
319.1
34.0

146.6
210.0
319.0
11:30:23 35.6
Rev. shut.
11:32:20 233.3
296.0
52.0
115.8

234.0
295.8
50.0
11:36:45 122.5

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1934phae.proj..632C

Dec. 17.

JNMH

11:53:53	234.4
	299.4 <
	51.3
	113.3
	233.0
	296.0 <
	51.9
12:00:02	119.0
	Rev. flat.
	319.1
	36.1
	139.6 <
	216.0
	319.8
	34.0 <
	136.1
12:07:34	212.4

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1934phae.proj..632C

Dec. 17.

JNMH

12: 11:30 315.8
35.0 <
135.0
217.8

316.3
40.2 <
136.3

12:17:15 216.1
Rev. flt. r.

12:19:57 60.6
116.0
233.3 <
299.1

54.2
121.0
228.8 <

12:25:45 297.4

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1934phae.proj..632C

Dec. 17.

JNMH

12:30:09 52.9
117.3 <
234.0
300.4

52.8
121.7 <
232.9

12:35:04 301.1
Rev. flat.

12:36:55 136.1
216.1 <
315.4
35.9

136.5
223.6 <
320.0

12:41:45 36.3

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1934phae.proj..632C

Dec. 17.

JNMH

Nova Her. 1934

$18^h\ 04$

ST $\underline{8\ \ 49}$ $\delta +46°$

$9^h\ 15$ E.

Cook Cam.

Ballon 103 watch

15:22:00 15:22:06

18:56:04 18:56:04

c.s. marked 2 on chart.

Identified as BD +46 2426, $7^m.2$

Pos. angle. 351, of each 11.4

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1934phae.proj..632c

Dec. 17.

JNMH

16:34:43

354.0 nova. dis
3.9 <
167.9
162.3

9.9
14.4
24.3 Hβ

349.9
5.6 <
171.0
161.7
Rev. flt

4.66
18.7
10 7
29.4 445

do

~~91.7~~
263.4
270.7
81.7 <
93.0

5.06
7.41
2.35
7.3
11.3
18.6 5.45

260.6
272.1
83.6 <
90.4

5.46
11.5
6.8
18.3 546

16:48:30

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1934phae.proj...632C

Dec. 17

JNMH

16:51:7	261.8		
	271.7	9.9	
	82.8	10.1	
	92.9	20.0	5.29
	260.4		5.20
	271.8	11.4	
	82.0	10.2	
	92.3	21.7	5.11
	Rev. of Chart.		
	350.7		5.06
	2.7	12.0	7.41
	171.6	12.1	2.35
	183.7	24.1	4.88
	350.2		4.92
	2.0	11.8	
	171.7	11.4	
17:03:47	183.1	23.2	4.97

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1934phae.proj..632C

Dec. 17.

JNMH

17:05:05	349.4			
	2.0 <	122		
	171.2	145		
	165.7	26.7	4.66	
	350.7		4.76	
	4.2 <	135		
	172.2	109		
	163.1	24.4	4.86	
	Rev. Thir			
	83.7			5:08
	91.3 <	76		7.41
	260.1	109		233
	271.0	18.5	5.46	
	81.7		5:39	
	92.6 <	109		
	262.1	88		
17:17:07	270.9	19.7	5.32	

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1934phae..proj...632C

Dec. 17,

JNMH

17: 18: 24	84.0			
	91.0 <	7.0		
	261.0	12.8		
	273.8	19.8	–	5-31
	80.8			5-21
	93.9 <	12.9		
	262.2	8.8		
	271.0	21.7	–	5-11
	Rev. flux.			5-04
	172.1			2.41
	179.7 <	7.6		2.37
	346.4	18.5		
	4.9	26.1	4.71	
	170.2			
	184.1 <	13.9	4.86	
	352.0	8.6		
17: 31: 18	0.6	22.5	5-03	

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1934phae.proj..632C

Dec. 17.

JNMH

17:36:16

171.2		
182.2 <	11.0	
349.3	13.9	
3.2	24.9	— 481

169.8		484
184.0 <	14.2	
349.8	10.0	
359.8	24.2	— 481

Rev. flux

263.2		5.03
271.2 <	8.0	7.41
80.0	12.2	2.38
92.2	20.2	.527

260.9		5.22
271.8 <	10.9	
81.9	10.3	
17:45:45 92.2	21.2	5.16

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1934phae.proj...632C

Dec. 17.

JNMH

7:50:28	262.9			
	271.0	f.1		
	83.5 <	91		
	92.6	17.2	5.62	
	262.5			5:48
	270.8	f.3		
	83.0 <	80		
	91.0	16.3	5.74	
	Rev. plate.			
	352.7			5:36
	0.8 <	f.1		
	170.0	150		
	185.0	21.1	4.94	
	346.2		5.04	
	0.9 <	127		
	171.9	92		
18:03:31	181.1	21.9	5.09	

Field bright from here on.
Results tentatively rejected.

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1934phae.proj..632C

Dec 17.

JNMH

R5:08:40

349.4
3.6
169.9 <
183.6

142
137
27.9

456

349.7
2.0 <
169.8
183.8

Rev. flux.

12.3
14.0
26.3

#69

4.62

84.0
91.3 <
262.0
270.8

7.3
8.8
16.1

5.26

5.76

83.1
92.0 <
262.0
270.0

8.9
8.0
16.9

5.71

5.66

18:20:22

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1934phae.proj..632C

Dec. 17,

JNMH

18:22:00 83.1
91.4 83
262.5 7.5'
270.0 15.8 — 5.50

5.68

82.6
91.5 8.9
262.0 8 8
270.8 17.7 5.66
Rev. flux.

170.1 5.40
181.7 11.6
351.2 10 2
1.4 21.8 5.10

172.3 5.13
182.1 9.8
350.5 11 4
18:31:16 1.9 21.2 5.16

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1934phae.proj...632C

Dec 18, 1934

cuffey or +rec

Nova Herc.

Ballon 6 12 00 Comp. * $18^h\ 2.^m5$
Watch 6 19 47 $+46°15'$
alt. brightest star there.
$+46°24'26$ ~~7.46~~
Sprocket A 345, dep. 11.5 7.41 (H.B.V.)

Var br. and dir

6 34 5

347.2			
1.3	14.1		
170.5	12.5	−4.67	
183.0	26.6		
348.0			
0.0	12.0	−4.67	
169.0	14.5		
183.5	26.5		
			−5.05
			7.41
			2.36
~~92.0~~			
258.7	9.6		
268.3	9.3	−5.41	
83.5	18.9		
92.8			
258.9	8.6	−5.46	
267.5	9.9		
91.6	18.5		
9.1.5			

6 45.35

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1934phae.proj..632C

Dec 18 Nova Herc Cuffey obs

" "

6-47-51 259.5 Evans dis

270.0 c 10.5

82.0 10.0 -5.24

92.0 20.5

260.0 9.7

269.7 c 9.8 -5.35

81.0 19.5

6-51-45 90.8

<<

-5.17

7.41

2.24

348.2

0.0 11.8

170.5 11.5 -4.96

181.5 23.3

349.0

358.2 9.2

6 170.0 c 12.3 -5.13

X-52-30 182.3 21.5

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1934phae.proj..632C

Dec 18 Auffay Obs + 22 cm.

Nova Herc

6-57-55'	347.2			
	359.1 c	12.9		
	170.8	12.7	-4.75	
	183.5	25.6		
	346.7			
	359.3 c	12.6		
	170.0	13.5	-4.71	
701-00	183.5	26.1		
		cc		-4.66
	80.9			-5.66
	90.6 c	9.7		7.41
	261.8 c	7.1	-5.67	2.25
	268.9	16.8		
	80.7	9.3	-5.52	
	90.0 c	8.7		
	261.7	18.0		
705-25'	270.4			

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1934phae.proj..632C

Dec 18 Cuffey obs. & Rozhe
Nova Herc

7-07-10	79.8 c variable			
	89.8	10.0		
	263.5	6.5	5.71	
	269.0	16.5		
	81.5			
	91.0 c	09.5		
	260.2	9.7	5.38	
7-10-45	269.9	19.2		
	c			- 5.18
	169.4	13.1		7.41
	182.5 c	11.4	4.85	2.23
	348.5	24.5		
	359.9			
	170.8	12.7		
	183.5 c	12.4	4.79	
	354.5	25.1		
7-15-15	358.9			

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1934phae.proj..632c

Dec 18 Cuffey Observ.
Mora Ariz

7-17-35 171.2 <mon. dis.
181.6 10.4
348.9 13.1 4.94
2.0 23.5
~~169.97~~
169.9
187.0 12.1
348.9 12.6 4.83
1.5 24.7

-5.06
?.41
2.35

261.0 9.5
270.5 11.6 5.17
80.5 21.1
92.1

260.5 10.0
270.5 9.7 5.32
81.9 19.7
7-23 00 91.6

Var. too low to continue

Ballon 8-00-00
Watch 7-59-00

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1934phae.proj..632C

Dec. 18.

VNM tt
Obs.

Clocks corr.
Balloon 103 — Obs. watch
16:19:30 — 16 19 07

Nova Herc. 1934
α 18h 04 — δ +46°
S.T. 10 33
HA 7 31 W

cf. BD +46 2426
pos. angle 351, spectrat 11.5

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1934phae.proj..632c

Dec. 18

JNMH

Started in light clouds.

17:18:47

17:20:02 352.5 nova dia. 6.5

1.0 <

171.3 10.6

181.9 19.1 -5.39

350.9 -5.46

0.2 <

172.8 9.3

181.1 6.3

17.6 -5.57

Rough.

82.9

90.0 7.1 mean = -5.73

261.3 < 7.3 7.41

268.6 14.4 -6.01 168

83.6

91.8 < 6.2 -5.98

262.6 6.6

17:32:43 +269.2 14.8 -5.95

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1934phae.proj..632C

Dec. 18

JNMH

Sky clear

17:35:55 63.7

90.0 ← 6.3

261.4 6.6

265.0 12.9 −6.25

83.5

91.3 ← 7.8 −6.18

262.3 5.9

266.2 13.7 −6.11

Rev flux.

171.1 Mean = −5.74

181.0 ← 9.9 7.44

350.0 10.6 6.67

0.8 20.7 −5.22

172.8 −5.30

183.0 10.2

349.4 ← 6.9

17:47:36 358.8 19.1 −5.39

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1934phae.proj..632c

Dec. 18

UNMH

17:50:30 170.9

180.8 < 9.9

349.9 10.9

0.8 20.8 -5.20

172.3 -5.43

180.5 < 8.2

350.6 8.7

359.3 16.9 -5.66

Rev. plot.

262.3 Mean = -5.64.

268.0 < 5.7 7.41

84.0 7.6 1.77

91.6 13.3 -6.14

259.9 -5.85

269.7 < 9.8

82.1 8.1

18:02:54 90.2 17.9 -5.53

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1934phae.proj..632C

Dec. 18

JNMH

Field lightening somewhat

18:06:45	261.7		
	268.3 <	6.6	
	84.0	7.3	-6.08
	91.3	13.9	
			-5.96
	260.4		
	266.7 <	6.3	
	83.7	7.3	-5.63
	91.0	15.6	
	Rev. flick.		
	351.9		Mean = -5.63
	2.4	10.5	7 41
	170.9 <	9.3	2.78
	180.2	19.8	
			-5.31
	351.7		
	1.2 <	9.5	
	171.5	10.3	
18:17:43	181.8	19.8	

Clock com.

Balloon 103 Obs. watch

18:43:00 18:43:05

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1934phae.proj..632C

Wednesday 19 December 1934

LEC Watch 23^s fast at 14:52:00 EST from Nova Herculis 1934. LEC obs Rec

Clouded and remained so until 16-15. Nova then 2.3:
Index A 173°. Separation 11.6 Corrected for atmosphere 1.9

16-20.0	361.2			
	352.1	9.1		
	180.4	9.2		
	171.2	18.3	5,48	
	363.6			5.10
	351.3	12.3		
	182.6	13.6		
	169.0	25.9	4.73	7.41
				− 5.40
				2.01
	272.3			
	261.7	10.6	5.28	
	89.6	9.5		
	80.1	20.1		
				5.69
	270.0			
	263.3	6.7		
	89.1	7.1		
16-28.0	82.0	13.8	6.10	
			21.59	

Probably passing cloud.
Re-focused after group. Images had and still are.

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1934phae.proj..632C

Wednesday 19 December 1934

Nova Herculis 1934

Cloudy spell. Still some small scud.

Images still bad. Bad image changes on reversal

14-47.0

268.1		
261.0	7.1	
89.4	7.4	
82.0	14.5	5.99

Passing cloud

268.1		
261.3	6.8	
90.0 Passing cloud.	7.9	
82.1	14.7	5.96

179.6	
172.3	7.3
361.4	

Completely cloudy after this

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1934phae.proj...032C

Thursday
December 20, 1934

Nova Herc 1934

Clock corr.
Ballou 103 — watch
5h 57:00 — 5h 56:53

C. Star 7.41 ↘ ∴ ★ — Howells obs
B.D + 46 2426 — cuffey rec

~~6 - 13 45~~
6 - 14 - 30

262.3
269.4 ⌐ 7.1
82.2 7.5 5.98
89.7 14.6

6.04

261.7
268.8 ⌐ 7.1
82.5 6.7 6.10
6 - 18 - 10 89.2 13.8

5.60

6 - 19 - 30

~~359.1~~
177.8 ⌐ Zack Gibbs ~~interrupted~~,
181.7
349.8
this reading goes here
6 25 - 00 171.0
181.5 ⌐ 10.5
349.0 10.8 172.0
359.8 21.3

7.41
1.81

.88

5.15

5.16
44
5.60

5.18

6 - 28 - 50 171.3 10.6
181.9 ⌐ 10.4
350.0
00.4 21.0

7.41
~~5.66~~
~~1.75~~

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1934phae.proj..632C

Dec. 20 J.C. OH.
J.H. Rec.

6:30:10 352.5 Nova. dist.
1.0 8.5
170.1 8.2 5.68
176.3 16.7

5.77

354.7
1.3 6.6
169.2 8.4 5.86
176.0 15.4

Dew. shot.
80.8
91.3 10.5
263.0 7.1 5.57
270.1 17.6

5.64
7.41
1.77
5.51
13

81.3
88.5 7.2
260.6 11.4 5.45
6:35:32 272.0 18.6

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1934phae.proj...632C

Dec. 20

J.C. Obs.
J.H. Rec.

6:36.25	80.6			
	91.5	10.9		
	263.1	7.4	5.48	
	270.5	18.3		
				5.63
	82.0			
	89.1	7.1		
	261.0	8.9	5.78	5.74
	269.9	16.0		~~5.98~~
	Rev. Chart			~~5.1~~
	349.5			
	358.5	9.0		7.41
	173.2	6.6	5.83	1.67
	180.8	15.6		73
	350.5			5.86
	357.8	7.3		~~+.11~~
	172.9	7.9	5.89	~~+.11~~
6:42.31	180.8	15.2		5.74
			2.98	-5.74

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1934phae.proj..632C

Dec 20 J H obs
Nova Herc JC rec

6-45-20

349.3 10.1
360.4 8.9 5.40
171.1 19.0
180.0 5.45

350.9 9.1
0.0 9.1 5.50
170.9 18.2
180.0

CC

5.64
7.41
1.77

83.3 8.0
91.3 8.0 5.78
261.0 16.0
269.0

5.83
9
.64
38
19

43.2
90.8 7.6 5.87
261.3 7.7
6-54-50 269.0 15.3

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1934phae.proj..632C

Dec 20

Nova Herc

1H obs
1C rec

7-20-50 — 82.0
89.1 7.1
262.2 C 7.8 — 5.93
270.0 14.9

— 5.90

81.0
89.2 8.2
262.1 7.1 — 5.87
269.2 C 15.3

Mean: 5.56

170.4 9.3 7.41
179.7 11.1 — 5.25 1.85
350.2 20.4
1.3

— 5.21

170.0 10.7 — 5.18
180.7 C 10.3
351.3 21.0
7-30-20 1.6

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1934phae.proj..632C

Dec. 20 J.C. Obs.
J.H. Rec.

7: 32: ~~38~~ 44. 171.9
180.5 8.6
350.2 7.8 -5.72
356.0 16.4

172.2 -5.56
179.9 7.7
349.0 11.1 -5.41
0.1 16.9
Rev. plate.
260.2
269.9 Mean 5.56
82.6 9.7 7.41
89.0 6.2 -5.66 1.83
15.9

261.9 -5.60
269.5 7.6
82.2 9.3 -5.53
7: 37: 16 91.5 16.9

Nova getting pretty low.
Nova c. 0°.25 below c.s.
altitude c. 15°.

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1934phae.proj..632C

Dec. 20.

Clock corr. JNMH

Balloon 103 Watch

14: 22. 30 14: 23: 22

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1934phae.proj..632C

Thursday December 27, 1934

Phot. T. Nova Herculis 1934. LEC obs Rec

LEC Watch 22^s fast at 14:44 E.S.T. from Noon.

Index A 171. Separation 12.1

Nova brighter and dis

I

15 31.4	361.2			
	349.2	12.0		
	181.0	10.3		
	170.7	22.3	5.05	
	360.3			
	348.6	11.7		
	183.1	12.0		
	171.1	23.7	4.92	7.41
				− 5.21
				2.20
	270.0			
	260.7	9.3		
	91.6	12.6		
	79.0	21.9	5.09	
	269.7			
	262.2	7.5		
	89.2	9.5		
15 − 41.3	79.7	16.0	5.78	
			20.84	

Drifting high cirrus banks. Seeing terrible.

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1934phee.proj..032C

Thursday Dec. 27, 1934

Nova Herculis 1934.

II

5 47.3	269.0			
	260.0	9.0		
	90.5	10.1		
	80.4	19.1	5.39	
	270.6			
	260.0	10.6		
	92.0	11.9		
	80.1	22.5	5.03	7.41
				− 5.19
	361.2			2.22
	349.9	11.3		
	180.4	9.8		
	170.6	21.1	5.17	
	360.9			
	348.3	12.6		
	181.6	8.4		
15-58.4	173.2	21.0	5.18	
			20.77	

Conditions same as group I.

16-06 γ 3 N N 6 B = 2.3+

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1934phae.proj..632C

Thursday Dec. 27, 1934.

Nova Herculis 1934

III

16 09.3	360.1			1
	348.3	11.8		
	181.9	11.2		
	170.7	23.0	4.98	
	361.6			
	351.3	10.3		
	180.9	11.1		
	169.8	21.4	5.14	7.41
				−5.20
	269.4			2.21
	259.7	9.7		
	91.0	8.7		
	82.3	18.4	5.47	
	269.2			
	259.0	10.2		
	92.3	10.7		
16 18.7	81.6	20.9	5.19	1
			20.78	

Region clear. Seeing somewhat better than for previous two groups but when best some image is very elongated 16

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1934phae.proj...032C

Thursday Dec 27, 1934

Nova Herculis 1934

TV

16 23.1	268.7			
	259.1	9.6		
	92.1	10.4		
	81.7	20.0	5.29	
	268.2			
	260.1	8.1		
	90.1	7.2		
	82.9	15.3	5.87	7.41
				−5.26
	182.4			2.15
	170.0	12.4		
	360.2	10.9		
	349.3	23.3	4.96	
	181.3			
	169.9	11.4		
	361.0	12.2		
16 31.0	348.8	23.6	4.93	
			21.05	

Conditions same as last group.

16 37 γ 2 N N 5 B = 2.3

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1934phae.proj..632C

SUNday, Dec 30, 1934

Nova Here

Ballon 17-12-00
Watch -11-50

7.41 C.S.

Position 170° A sep. 11.5

Nova bright + dks

5-51-45

347.8
1.9
169.9
182.3

14.1
12.4
26.5

-4.67

Reductions in pencil (notnbk)

-4.57

348.1
1.9
168.2
185.2

13.8
17.0
30.8

-4.35

7.41
-4.82
Nov. Mag 2.59

2.590
273.1
81.5
89.5

14.1
8.0
22.1

-5.07

-5.12

261.8
270.8
79.7
91.7

9.0
17.0
21.0

-5.18

9.163
4.81

6 01 50

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1934phae.proj..632C

Dec 30
Nova Her

Cuffey

6.03.15 258.9
272.7 ← 13.6
81.8 7.5 - 5.17
89.3 21.1

-5.21

262.0 8.2
270.2 12.2 5.25
79.8 ← 20.4
92.0

7.41 cs.
-5.01

~~184.9~~
167.9 16.6 nov. mag 2.40
184.5 10.2 - 4.65
349.0 ← 26.8

-4.51

359.2

170.3 12.6 4.37
182.9 17.8
345.2 ← 30.4
6-13-15 - 3.0

~~Watch~~ 6 40 00 Ballon
6 39 55 Watch

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1934phae.proj..632C

Dec 31 1934

Nova Herc

Cuffey

Pos ∠ 179°. Sep 11.5

Ballon – 17 – 30 – 55
Watch – 17 – 26 30

5-42-45

348.8
11.9 13.1
171.5 9.7 – 5.00
181.2 22.8

– 5.05

349.5
359.1 9.6 5.09
170.5 10.3
180.8 19.9

as 7 +1
– 5.27

Nov. Mag 2.19

80.5
91.6 11.1
263.0 7.1 5.50
270.1 18.2

5.39

81.2 9.3
90.5 10.9 5.27
259.9 20.2
270.8

5-50-05

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1934phae.proj..632C

Dec 31 1934

5-53-0 80.1
92.1 — 12.0
261.5 — 9.5 — 5,13
271.0 — 21.5

81.0
90.7 — 9.7
261.8 — 9.2 — 5,43
271.0 — 18.9

172.0
181.8 — 9.3
349.2 — 10.6 — 5,30
359.8 — 19.9

171.5
181.8 — 10.3
347.2 — 12.6 — 4,99
359.8 — 22.9

6-01-15

cuffey

30 - 5,28

7.41
-5.22
2.19

Nov. May

5,15

Bellow 18 - 20 - 00
Watch 6 - 15 - 35

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1934phae.proj..632C

Jan 2, 1935 cuffey
Nova Herc

Watch 6 50 00
Ballon 6 51 20

Variable to be to be well observed

+ the following visual estimates were made;

Equal to (Exactly) * ∴ → Draco • *2.8 at 6:55

Mag of Nova 2.8

Sky foggy

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1934phae.proj..632C

Thursday January 3, 1935

Phot. T Nova Herculis 1934. LEC Obs Rep

LEC Watch 27s fast at 14:17 E.S.T. from Norm

Index A 348 Separation 11.0
Nova brighter and dis

I

14 33.0	269.6			
	260.1	9.5		
	90.8	9.1		
	81.7	18.6	5.45	
	269.8			
	259.6	10.2		
	92.3	11.8		
	80.5	22.0	5.08	7.41
				− 5.01
				2.40
	184.1			
	169.9	14.2		
	361.9	13.5		
	348.4	27.7	4.58	
	181.1			
	169.3	11.8		
	361.6	11.9		
14 42.5	349.7	23.7	4.92	
			20.03	

Strong NW wind. Very clear and transparent but seeing extremely pumpy.

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1934phae.proj. .632C

Thursday January 3 1935

Nova Herculis 1934

II

14 48.3	181.9			
	169.5	12.4		
	361.8	12.2		
	349.6	24.6	4.84	
	182.0			
	171.1	10.9		
	361.0	12.0		
	349.0	22.9	4.99	7.41
				−5.10
	92.0			2.31
	81.1	10.9		
	270.1	10.4		
	259.7	21.3	5.15	
	90.1			
	80.9	9.2		
	270.3	9.6		
14 57.3	240.7	18.8	5.43	
			20.41	

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1934phae.proj...032C

Thursday January 3, 1935

Nova Herculis 1934

III

14 58.3	91.4			
	81.0	10.4		
	269.5	9.2		
	260.3	19.6	5.33	
	91.1			
	80.5	10.6		
	269.8	10.1		
	259.7	20.7	5.22	7.41
				− 5.12
				2.29
	361.9			
	349.8	12.1		
	182.2	11.3		
	170.9	23.4	4.95	
	360.4			
	349.1	11.3		
	183.1	12.0		
15 06.7	171.1	23.3	4.96	
			20.46	

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Thursday January 3, 1935

Nova Herculis 1934

IV

13	08.5	340.9			
		349.8	11.1		
		182.2	12.0		
		170.2	23.1	4.98	
		361.0			
		348.2	12.8		
		181.7	12.5		
		169.2	25.3	4.78	7.41
					− 5.06
					2.35
		271.0			
		258.3	12.7		
		91.8	11.5		
		80.3	24.2	4.87	
		269.0			
		260.0	9.0		
		90.5	8.4		
15	16.2	82.1	17.4	5.59	
				20.22	

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1934phae.proj...632C

Thursday January 3, 1935

Nova Herculis 1934

V

15 32.7	269.1			
	260.6	8.5		
	90.5	8.1		
	82.4	16.6	5.70	
	269.4			
	259.5	9.9		
	92.0	11.0		
	81.0	20.9	5.19	7.41
				− 5.18
				2.23
	180.9			
	169.0	11.9		
	362.6	11.6		
	351.0	23.5	4.94	
	181.2			
	170.5	10.7		
	361.3	13.3		
15 40.5	348.0	24.0	4.89	
			20.72	

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1934phae.proj. .632C

Thursday January 3, 1935

Nova Herculis 1934.

VI

15 41.5	181.2			
	169.8	11.4		
	360.6	10.8		
	349.8	22.2	5.06	
	182.7			
	170.4	12.3		
	360.4	11.5		
	348.9	23.8	4.91	7.41
				− 5.17
				2.24
	92.0			
	80.4	11.6		
	270.2	10.6		
	259.6	22.2	5.06	
	89.9			
	81.7	8.2		
	270.0	8.7		
15 48.4	261.3	16.5	5.66	
			20.69	

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1934phae.proj...632C

Thursday January 3, 1935

Nova Heraclis 1934.

UT

15 56.8	90.2			
	81.8	8.4		
	269.6	9.5		
	260.1	17.9	5 53	
	90.5			
	81.2	9.3		
	269.6	9.9		
	259.7	19.2	5.38	7 41
				− 5.21
				2.20
	362.3			
	349.2	13 1		
	182.8	13.1		
	169.7	26.2	4.70	
	360.8			
	350.9	9.9		
	181.0	10.6		
16 04.1	170.4	20.5	5.24	
			20.85	

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1934phae.proj..632C

Thursday January 3, 1935

Nova Herculis 1934

VIII

16 06.7	360.6			
	350.0	10.6		
	181.4	10.2		
	171.2	20.8	5.20	
	361.0			
	348.0	13.0		
	184.2	14.5		
	169.7	27.5	4.59	7.41
				−5.14
				2.27
	269.7			
	258.2	11.5		
	93.0	12.8		
	80.2	24.3	4.86	
	268.7			
	241.0	7.7		
	89.9	7.4		
16 14.5	82.5	15.1	5.90	
			20.55	

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1934phae.proj...632C

Thursday January 3, 1935

Nova Herculis 1934.

IX

16 20

16 25.2	269.7			
	260.4	9.3		
	90.0	8.5		
	81.5	17.8	5.54	
	269.6			
	258.3	11.3		
	92.3	11.4		
	80.9	22.7	5.01	7.41
				− 5.01
				2.40
	185.0			
	169.5	15.5		
	362.3	15.2		
	347.1	30.7	4.35	
	182.1			
	170.6	11.5		
	360.1	9.9		
16 33.2	350.2	21.4	5.14	
			20.04	

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1934phae.proj..632C

Thursday January 3, 1935.

Nova Herculis 1934

16 34.4	180.7			
	170.4	10.3		
	361.9	10.6		
	351.3	20.9	5.19	
	182.2			
	168.6	13.6		
	362.8	14.6		
	348.2	28.2	4.54	7.41
				− 5.02
				2.39
	95.4			
	79.7	15.7		
	270.9	12.2		
	258.7	27.9	4.56	
	90.3			
	82.6	7.7		
	268.7	8.3		
16 43.3	260.4	16.0	5.78	
			20.07	

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1934phae.proj...632C

Thursday January 3, 1935

Nova Herculis 1934

~~XI~~

16 49.3	90.7			
	81.8	8.9		
	270.0	9.6		
	260.4	18.5	5.46	
	91.3			
	80.6	10.7		
	271.0	12.4		
	258.6	23.1	4.98	7.41
				-5.00
				2.41
	364.1			
	348.0	16.1		
	183.6	15.3		
	168.3	31.4	4.30	
	360.8			
	350.8	10.0		
	181.0	10.3		
16 57.0	170.7	20.3	5.26	
			20.00	

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1934phae.proj..632C

Thursday January 3, 1935

Nova Herculis 1934 XII

16	52.8	361.7			
		351.0	10.7		
		181.2	10.4		
		170.8	21.1	5.17	
		361.1			
		348.9	12.2		
		183.2	13.6		
		169.6	25.8	4.73	7.41
					− 5.12
					2.29
		270.8			
		258.0	12.8		
		92.8	11.9		
		80.9	24.7	4.83	
		269.1			
		260.4	8.7		
		89.6	7.5		
17	04.8	81.9	16.2	5.75	
				20.48	

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1934phae.proj...632C

Thursday January 3, 1935

Nova Herculis

XIII

17 16.5	271.6			
	259.6	12.0		
	90.9	9.2		
	81.7	21.2	5.16	
	269.1			
	259.9	9.2		
	92.4	12.2		
	80.2	21.4	5.14	7.41
				−5.02
	182.4			2.39
	169.7	12.7		
	362.1	14.4		
	347.7	27.1	4.64	
	181.0			
	170.5	10.5		
	361.7	10.7		
17 24.8	351.0	21.2	5.16	
			20.10	

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1934phae.proj..632C

Thursday January 3, 1935

Nova Herculis 1934

~~XII~~

17 25.4	181.0			
	170.7	10.3		
	360.7	9.9		
	350.8	20.2	5.27	
	182.7			
	169.3	13.4		
	361.9	14.1		
	347.8	27.5	4.59	7.41
				− 5.12
				2.29
	92.3			
	80.8	11.5		
	271.0	12.0		
	259.0	23.5	4.94	
	90.4			
	82.3	8.1		
	269.4	8.8		
17 32.8	260.6	16.7	5.68	
			20.48	

17 50 R CrB 154428 8th mag.

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1934phae.proj...632C

Jan. 4, Friday 1935

Nova Herc

watch 3^s fast at 5-26-00

PA 179 Sep 11.4 7.41 CS

5-46-30 166.°8 Nova Brighter

182.9 Nor. dis

350.5 16.1 −4.64

1.5 11.0

27.1 4.64

170.5

181.11 10.6 −4.64

347.5 16.3

3.8 26.9

263.0

272.8 9.8 5.13

78.8 11.7

90.5 21.5 5.18

262.5

273.2 12.7 5.22

80.5 8.0

5 55-30 85.5 20.7 19.63

7.41 − 4.86 = 2.55

6.18 − 4.64 = 44 ↑ error

7.41 − 4.91 = 2.50

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1934phae.proj..632C

Jan 4 Fri Nova Her Cuffey

261.5
5-57-0 271.0 9.5
81.1 10.1 − 5.33
91.2 19.6

5.31

259.9
271.5 11.6
81.1 8.4 −5.29
89.5 20.0

7.41
5.31 −5.02
4.33 2.40
59

353.0 8.2
1 15.5 − 4.92
166.0 23.7
18.5

4.72

348.1
4.5 16.4
169.5 12.0 − 4.52
6 03 -30 181.5 28.4

Seem very bad
. second observation gets only half weight,
images very bad.

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1934phae.proj...032C

Jan 5 Sat 1935 5 Lec

Nova Here. Cuffey

Watch 5' ~~5'2-5'5~~ 5-54-30 → Bullon

Bullon 5' ~~5'3-00~~ 5-5'3-10 - watch

Sky too thick and Nova too low

Visual estimate = 2.4 at 6.00 EST

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1934phae.proj..632C

January 5, 1935

Plot T. R E C obs Rec

L E C noted 28^s fast at 13 59 EST from noon.

R CrB (154428) A 334° Separation 10.0
7.2 AAVSO cf *
cpt* brighter + dis.

14 22.5	207.1			I
	145.2	61.9		
	387.1	61.7		
	3254	123 6	1.11	
	202.2			
	147.0	55.2		
	386.8	58.1		
	328.7	113.3	1.34	
				+ 1.52
	108.3			
	63.9	44.4		
	290.2	49.4		
	240.8	93.8	1.81	
	109.1			
	60.0	49.1		
	288.7	43.9		
14 31.5	244.8	93.0	1.83	
			6.09	

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1934phae.proj..632C

January 5, 1935

R Cr B (154428)

II

1432.7	112.0		
	59.3	52.7	
	291.4	50.1	
	241.3	102.8	1.59
	110.2		
	61.0	49.2	
	289.7	45.6	
	244.1	94.8	1.79
			+ 1.51
	384.4		
	326.7	57.7	
	207.2	57.4	
	149.8	115.1	1.30
	382.6		
	327.0	55.6	
	205.7	57.0	
1440.7	148.7	112.6	1.36
			6.04

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1934phae.proj..632C

January 5, 1935

Nova Herculis 1934

A 348° Separation 11.2

Nova bright + dis

I

15	11.8	270.0			
		260.0	10.0		
		90.7	8.6		
		82.1	18.6	5.45	
		270.7			
		260.4	10.3		
		91.9	11.9		
		80.0	22.2	5.06	7.41
					− 5.04
					2.37
		182.1			
		169.1	13.0		
		363.1	14.2		
		348.9	27.2	4.62	
		182.5			
		171.0	11.5		
		360.9	10.9		
15	20.8	350.0	22.4	5.04	
				20.17	

Images very different. Refocused.

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1934phae.proj..032C

January 5, 1935.

Nova Herculis 1934.

II

1524.5 182.7

Completely cloudy.

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1934phae.proj. .632C

Friday Jan 11

Nova Herc

cuffey

Watch 5-57-30
Ballon 5-56 45

Vardie

CS 7.41

6-14-00

261.1		
272.5	11.4	
81.5	7.9	
89.4	193	— 537
263.5		— 5.44
271.2	77	
80.5	103	
90.8	180	— 553
		7.41
		Mean = 5.11
		2.30
348.0		
3.5	15.5	
171.0	10.5	
181.5	26.0	— 4.71
350.0		4.78
359.8	9+	
168.5	145	
6-20-15 183.0	24.3	— 486

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1934phae.proj...032C

Nova Herc Jan 11 Friday

cuffey

6-21-5 347.5
1.9
170.1
183.1

144
130
27.4 - 4.60

348.8
0.8
169.6
182.8

- 4.66
120
138
25.8 - 4.73

741
5.14
2.27

80.5
90.3
263.1
270.1

98
70
16.8 5.67

81.0
88.9
261.0
6-27-50 270.5

5.63
79
95
17.4 5.59

Var too low to continue.

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1934phae.proj..632C

Saturday Jan 12 1935

Nova Herc.

Balloon 5-43-00
Watch 5-43-05

Cuffey

EST from 7.41 cs
Moon

6-01-00 85.6 var dis
96.0
267.1
275.1

10.4
4.0
14.4 — 5.47

87.1
95.3
264.5
276.0

4.2
11.5
15.7 — 5.32

7.41
−5.46
1.97

178.0
188.0
354.8
3.0

10.0
4.2
14.2 — 5.50

178.2
186.9
354.8
4.5

4.7
9.7
14.4 — 5.48

6-07-00

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1934phae.proj...032C

Jan 12

Nova Herc

Cuffa

608-20 1763
186.9 10.6
355.9 7.5
3.4 18.1 − 5.51

178.0 5.44
187.0 9.0
354.0 10.3
4.3 19.3 − 5.37

7.41
5.42
1.99

264.9
275.9 11.0
86.4 8.4
94.8 19.4 − 5.36

267.5 5.40
275.5 8.0
85.1 10.6
6-16-15 95.7 18.6 − 5.45

Var too low. to continue
Images bad, seem unsteady (very)

Watch 6 30 00
Ballon 6 30 05

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1934phae.prof..632C

Friday Jan. 18. 1935

Clock Corr.
Balloon 103 watch
12:53.30 12:53:13
15" E. Eq., Phot. T.
Nova Her. JNMH Obs.

EST. from noon

C.S. 7h 41

B:35:45

176.1
187.6 < 11.5
355.3 10.7 -5.06
6.0 22.2

-5.16

175.8
186.0 < 10.2
356.3 10.2 -5.25
6.5 20.4

Dec. Phot. 7.41
mean -5.54
1.87

268.1
275.1 7.0
86.4 < 7.6 -5.94
94.4 14.6
267.6 -5.92
275.6 < 8.2
87.0 7.1 -5.87
13:50:50 94.1 15.3

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1934phae.proj..032C

Jan. 18. JNMH

13:54:50	267.5			
	276.0 ←	8.5		
	86.2	8.8	-5.61	
	95.0	17.3		
	267.3		-5.72	
	275.8 ←	8.5		
	87.7	7.0	-5.83	
	94.7	15.5		7.41
	Rev. plot.		Mean	-5.53
	356.1			1.88
	5.1	9.0		
	174.8 ←	11.3	-5.26	
	186.1	20.3		
	355.0		-5.34	
	6.5 ←	8.5		
	176.1	10.0	-5.43	
14:48:00	186.1	18.5		

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1934phae.proj..632C

Jan. 16. 1935 JNMH

14:15:25 354.7

	5.6	10.9	
	175.4	10.6	-5.13
	186.0	21.5	
	355.3		-5.16
	7.1	11.8	
	176.3	9.1	-5.19
	185.4	20.9	7.41
	Rev. plot.		mean -5.558
	86.8		1.853
	94.0	7.2	
	268.2	6.8	-6.07
	275.0	14.0	
	86.0		-6.00
	94.0	8.0	
	266.0	7.0	-5.92
14:29:05	275.0	15.0	

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1934phae.proj..032C

Jan. 16. 1935 JNMH

14:30:45 87.3
95.0 7.7
267.9 7.8 -5.565
275.7 15.5

-5.90

87.3
95.0 7.7
267.5 7.1 -5.95
274.6 14.8 7.41
Rev. flux. Mean -5.52
177.6 1.89
186.6 19.0
355.0 12.0 -5.18
7.0 21.0

175.2 -5.14
186.9 11.7
355.4 10.1 -5.10
14:43:05 5.5 21.8

Clock corr.
Balloon 103 Watch
15:02:00 15:01:28

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1934phae.pro1..632C

Thursday Jan 24, 1935

Nova Herc

cuffey

watch 5-41-30
Ballon 5-39-25

Nova Too faint to be observed
Visual estimate 2.5 at 5:50 EMT from Nov

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1934phae.proj..632C

Sunday Jan. 27 1935

Nova Her. 15" E.Sq. Phot.T. JNM H obs.

E.S.T.	Clock corr.		Watch
9/Tu mean	Ball on 103		
	5 57 30		5 56 27

Comp. stars $+46°$ 2426 $7^m.41$

6:15:15	85.7		
	96.2	10.5	
Neg	268.8 ←	7.9	
	275.8	18.0	552
	86.6		553
	94.9 ←	8.3	
	267.1	9.5	
	276.6	17.8	554
	Rev. phot.		7 41
			− 5.26
			2.15
	174.0		
	185.1	11.1	
	356.2 ←	10.1	
	6.3	24.2	447
	176.4		5.02
	186.0 ←	9.6	
	355.6	11.4	
	7.0	21.0	518

Watch frozen solid. No time.

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1934phae.proj..632C

Jan. 27

UNMH

Nova Her

174.9
186.2 2
355.0
5.9

11.3
10.9
22.2 — 506

176.7
186.1 <
354.0
6.7

11.4
12.7
24.1 — 488

4.97

Rev. flat.

266.7
276.3 <
86.0
92.0

9.6
8.0
17.6 — 558

9.41
5.18
2.23

Evening

266.2
277.0 <
86.0
96.0

10.8
10.0
20.8 — 520

5.39

Pretty low, about 10° altitude.
Nova about 0°.2 below comp. star.

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1934phae.proj...032C

Jan. 27. JNMH.

EST Clock corr. watch
from Balloon 103
14:46:00 14:45:25

Nova Her

15:48:40 176.9
185.1 11.2
354.1 11.5
5.6 22.7 - 501
175
175.3 506
185.9 13.6 -
354.6 9.5
4.1 23.1 - 490
Rev. phot. 541
268.6 5.27
275.1 6.5 2.14
84.7 10.8
95.5 17.3 561

267.0 5-5-4
278.5 11.5
86.8 7.1
16:01:05 93.9 18.6 546

Amager foon

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1934phae.proj..632C

Jan. 27. JNMH

EST

Jan noon Nova Her

16:02:45 269.1

276.1 7.0

88.9 < 118

95.7 188 − 543

552

267.1

278.3 112

87.7 < 61

93.8 173 − 561

Rev. flut. 741

355.1 506

6.0 109 241

171.8 < 169

188.7 278 − 457

351.3 448

10.1 < 188

174.9 115

16:14:20 186.4 303 − 438

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1934phae.proj...032C

Jan 27 JNMH

EST

from Lick Nova Her

16:22:15 354.5

6.9 < 12.4

174.6 116

186.2 − 240 489

354.9 497

6.4 < 11.5

175.9 104

186.7 − Σ23 505 761

Corr for h.r 4.96

86.1 2.45

93.7 76

265.3 < 136

278.9 − 21.2 5.16

81.2

95.0 128 4.95

263.0 < 109

16:34:05 274.9 25.7 4.74

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1934phae.proj..632C

212

Jan. 27 JNMH

EST

from noon

Weather

16:36:00 56.2

93.7 7.5

261.1 159

277.0 23.4 - 495

84.1 5.07

94.5 104

265.1 105

275.6 209 - 519

Rev. flat. 741

176.4 496

187.0 106 2.40

350.2 141

4.3 24.7 - 4.83

175.1 486

187.4 123

353.3 116

16:47:20 4.9 239 4.90

Light clouds during latter part.

Clock on. Watch

Balloon 103

17:8:30 17:7:34

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1934phae.proj..632C

Tuesday Jan. 29. 1935

EST. VNMH

from chron

Clock correction

Balloon 103 Watch

14:9:00 14:9:05

Nova Herculis – 15" E. Equatorial, Phot. T.

c.s. BD +46 2426, 4m.41

14:25:25 172.4

186.5 161

346.7 24.5

11.2 40.6 374

167.0 3.63

195.1 281

353.0 166

9.6 44.7 352

Rev. phot. >42!

266.0 4.14

276.1 121 3.27

82.4 168

96.2 27.9 456

466

267.2 140

281.2 116

84.3 25.6 476

14:47:35 95.9

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1934phae.prof. .632C

Jan. 29. JNMH

Nova Her.

14:45:55

265.3
277.0 <
81.1
97.4

117
113
230 — 498

263.0
260.9 <
83.3
96.5

— 465

179
132
311 — 432

Rev. plate.

350.6
8.4 <
167.5
191.8

741
416
325

178
243
421 — 365

347.4
11.0 <
172.9
190.5

368

236
176
412 — 370

14:59:30

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1934phae.proj..632c

Jan. 29. UNMH

Nova Her.

15:00:55 352.3

10.7 184

349.6 224

12.0 40,8 3)2

167.9 384

169.0 217

352.7 154

8.1 365 397

Rev. flux. 741

265.1 410

277.6 125 331

81.2 174

98.6 299 441

262.4 436

280.9 185

54.0 129

15:14:20 96.9 314 430

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1934phae.proj. .632C

Jan. 29. UNM 14

Nova Her.

15:15:40

265.1			
277.1	120		
80.8 <	162		
97.0	282	454	
			446
263.3			
280.2 <	169		
84.8	136		
98.4	305	437	
Rev. shot.			> 411
			421
352.2			320
10.5 <	158		
170.1	202		
190.3	385	385	
			396
353.1			
11.2 <	161		
171.9	167		
15:27:25 188.6	348	408	

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1934phae.proj..632c

Jan. 29 JNMH

Nova Her.

15:42:30	350.7			
	14.0 <	233		
	166.4	241		
	190.5	474	339	
			356	
	351.0			
	11.0 <	200		
	170.3	206		
	190.9	406	374	
	Rev. phot.			341
				404
	81.9			337
	97.2 <	153		
	264.4	141		
	276.9	294	445	
			452	
	82.9			
	96.4 <	135		
	265.6	140		
15:49:45	279.6	275	459	

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1934phae.prof..632C

Jan. 29. JNMH

Nova Her.

15:51:35

82.7
98.8 <
265.0
281.2

161
162
323

424

80.9
98.9 <
265.7
278.9

180
132
312

428

432

Rev. flat.

169.5
191.2 <
351.7
14.2

217
226
443

354

441
3.94
345

360

169.5
190.4 <
350.1
11.0

209
209
418

367

16:02:30

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1934phae.proj..032c

Jan. 29 JNMH

Nova Her

16:10:30	170.1			
	190.9 ←	20.8		
	345.0	23.1		
	11.1	43.9	357	
	~~160~~			
	164.0		354	
	192.4	28.4		
	351.9 ←	16.3		
	8.2	44.7	352	
	Rev plot.			441
	264.6			393
	277.9	13.3		348
	82.0 ←	17.0		
	99.0	30.3	432	
			432	
	263.5			
	280.2	16.7		
	83.9 ←	15.1		
16:22:30	99.0	31.8	427	

Clocks corr.

Balloon 103 — Watch

16:54:00 — 16:54:00

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