1902phae.proj.1772.

KG
11366
v.768

13203 – 13696

Jup. Ecl. & Var. Stars. No. 4.

Times and Copy of measures.

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

1002phae.proj.1772.

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1902phae.proj.1772.

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1902phae.proj.1772.

Eros

C 13202. March 12, 1901.

1

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1902phae.proj.1772.

Eros

C 13203 March 12. 1901

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1902phae.proj.1772.

2

Jupiter Eclipse

C 13210 March 18. 1901.

l	t
21	10 37
12 21	12 17
22 21	13 57

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1902phae.proj.1772.

© 13z 10 March 18. 1901

3z 21 15 37

4z 21 17 17

5z 21 18 57

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1902phae.proj.1772.

C 13210 March 18, 1901

62 21 20 37

72 21 22 17

82 21 23 57

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1902phae.proj.1772.

C 13210 March 18. 1904

9h 21 25 37

10h 21 27 17

11h 21 28 57

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1902phae.proj.1772.

α 13 2 10 March 18. 1901

12 2 21 30 37

13 2 21 32 17

14 2 21 33 57

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1902phae.proj.1772.

C 13210 March 18. 1901

152 21 35 37

160 21 36 57

Only the starting time is given in the record, therefore, in working the above it is assumed that apparatus ran "O.K." but there is no way of checking the assumption.

Bond 344 = 6.4 foot.

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1902phae.proj.1772.

Rg. Jup. Sat III

C 13220 March 28 1901

Useless on account of clds.

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1902phae.proj.1772.

Cerakis variable
+45. 3062

Even measures ~~copied from Book 16~~, p. 165. - AE.
Odd " " " " 15, p. 180. RWL

@ 13232 April 11. 1901.

	t			
1	19	03	00	e0
	19	13	00	13
→	19	23	00	e7
	19	33	00	e8
	19	43	00	e6
	19	53	00	e3
	20	03	00	e0
	20	13	00	d6
10	t			

The instrument lost 1 minute somewhere between image 3 and 10. Therefore, the marking after image 3 may be, and the latter few surely are 1 minute in error.

Bond 394 = 0.8 feet.

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1902phae.proj.1772.

Dis Sup. Set A II changed aug 1916

C13233 April 11. 1902

1 t

12

22

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1902phae.proj.1772.

C 1323 3 April 11. 1907.

32

42

$\sqrt{2}$

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1902phae.proj.1772.

Copied in by R.W.L. from Book 7.

C 132 33 April 11. 1901

62

	7/2	20	54	44								
		20	54	54								
		20	55	04								
14		20	55	14	5.3	4.0	1.3	5.4	5.4		.2	.1	2
15		20	55	24	4.8	3.9	.9	5.0	4.9		.3	.2	3
16		20	55	34	4.9 5.5	3.8	1.1 1.7	5.2	5.0		.4	.3	4
17		20	55	44	5.0	4.4	.6	4.7	4.8		.2	.3	2
18		20	55	54	5.2	4.2	1.0	5.1	5.2		.0	.1	0
19		20	56	04	5.6	4.0	1.6	5.7	5.6		.2	.1	2
20		20	56	14	5.4 5.2	3.8	1.6 1.4	5.6	5.4		.4	.3	4
21	8 2	20	56	24	5.3 5.8	4.2	1.1 1.6	5.3	5.3		.0	.1	0
22		20	56	34	5.3	3.8	1.5	5.4	5.5		.4	.3	4
23		20	56	44	5.4	4.0	1.4	5.5	5.4		.2	.1	2
24		20	56	54	5.5	4.3	1.2	5.4	5.4		.1	.2	1
25		20	57	04	5.7	3.9	1.8	6.0 5.9	5.6		.3	.2	3
26		20	57	14	5.3	3.9	1.4	5.5	5.4		.3	.2	3

5 | 25.6 / 5.1

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1902phae.proj.1772.

C 13233 April 11, 1901

27		20	57	24	4.8	3.3	1.5	6.2	5.8	.9	.8	9
28		20	57	34	6.3 4.3 6.5 4.6		2.8 1.9	6.1	6.2	.3 .4	.2	4
29		20	57	44	5.9	4.2	1.7	5.8	5.8	.0	.1	0
30		20	57	54	5.9	4.0	1.9	6.0	6.0	.3 .2	.1	2
31	92	20	58	04	6.2	4.4	1.8	5.9 6.0	6.0	.2	.3	2
32		20	58	14	6.2	4.4	1.8	5.9 6.0	6.0	.2	.3	2
33		20	58	24	6.4	4.3 4.8	2.1 1.6	6.2	6.3	.6	.2	1
34		20	58	34	7.2 7.7	4.3 4.2	2.9 3.5	7.0	7.2	.0	.2	1
35		20	58	44	7.4	4.7	2.7	6.8	7.2	.5	.6	5
36		20	58	54	7.8	4.7	3.1	7.1	7.5	.5	.6	5
37		20	59	04	7.8	4.0	3.8	8.0 7.9	7.8	.2	.1	2
38		20	59	14	8.5	4.7	3.8	8.0 7.9	8.2	.5	.6	5
		20	59	24								
		20	59	34	Sum	10 35 10 42		10 38	4.2			
102		20	59	44	Mean	4.2	4.1					

	+ 3.2	+ 2.5 + 3.8
	− 4.0	− 4.0 − 2.8
25	+ 7.2	25 (+ 6.6
	± .29	± .26

Those in red ink remeasured by Thibault.

112

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1902phae.proj.1772.

C13233 April 11. 1901.

122

132

141

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1902phae.proj.1772.

U. Cephei

C 13241 April 13. 1901.

1	t	
	14	44 30
12	14	54 30
22	15	04 30

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1902phae.proj.1772.

C 13241 April 13. 1901

32 15 14 30

42 15 24 30

52 15 34 30

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1902phae.proj.1772.

C 13241 April 13. 1901

62 15 44 30

72 15 54 30

82 16 04 30

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1902phae.proj.1772.

C 13241 April 13. 1901

92 16 14 30

102 16 24 30

16 27 30

106 t.

Bond 394 = 0.6 fast.

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1902phae.proj.1772.

U. Cephei

C 13250 April 26. 1901

1

12

22

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1902phae.proj.1772.

32

42

52

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1902phae.proj.1772.

6 2

7 2

8 2

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1902phae.proj.1772.

92

102

112

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Dis. Inf. Set. I

C 13251 April 26. 1901

1 t

~~19 42 17~~

~~17 19 43 57~~

~~22 19 45 37~~

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1902phae.proj.1772.

24 (a)

C 132 51

	Times				Measures					
	43	19	49	07						
9	44			17	5.2	5.2	0	5.3	5.2	−1
10	45			27	5.5	5.3	.2	5.5	5.5	0
11	46	19	49	37	5.4	5.4	0	5.3	5.4	1
12	47			47	5.6	5.4	.2	5.5	5.6	1
13	48			57	5.7	5.2	.5	5.8	5.8	1
14	49	19	50	07	5.4	5.3	.1	5.4	5.4	0
15	50			17	5.4	5.1	.3	5.6	5.5	2
16	51			27	5.3	4.9	.4	5.7	5.5	4
17	52			37	5.3	5.3	0	5.3	5.3	0
18	53			47	5.8	5.2	.6	5.9	5.8	1
19	54			57	5.9	5.4	.5	5.8	5.8	1
20	55	19	51	07	5.9	5.6	.3	5.6	5.8	3
21	56			17	5.8	5.6	.2	5.5	5.6	3
22	57			27	5.7	5.4	.3	5.6	5.6	1
23	58			37	6.6	5.4	1.2	6.5	6.6	1
24	59			47	6.7	5.5	1.2	6.5	6.6	2
25	60			57	6.5	5.6	.9	6.2	6.4	3

Cont'd on 26a.

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C 13251 April 26. 1901

~~32 19 47 17~~

	43	19	48	9 0 57			
			49	1 07	5.2	5.2	0
			49	2 17	5.5	5.3	.2
11	46		49	3 27	5.4	5.4	.0
12			49	4 37	5.6	5.4	.2
13			49	5 47	5.7	5.2	.5
14			50	0 57	5.4	5.3	.1
15			50	1 07	5.4	5.1	.3
16			00	2 17	5.3	4.9	.4
17			50	3 27	5.3	5.3	0
18	52	19	50	43 7	5.8	5.2	.6
19			50	5 47	—	—	—
20			50	1 07	—	—	—
21			51	1 07	5.9	5.4	.5
22			51	2 17	5.9	5.6	.3
23			51	3 27	5.8	5.6	.2
24			51	4 37	—	—	—

	.0
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	.1
	.0
	.2
	.2

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1902phae.proj.1772.

C 13251 April 26. 1901.

25		19	51	47	6.6	5.4	1.2	.0
26		19	51	57	6.7	5.5	1.2	.1
27		19	52	07	6.4	5.6	.8	.2
28	6h	19	52	17	7.6	5.8	1.8	.4
29					7.5	5.4	2.1	.0
30					7.2	5.0	2.2	.4
31					—	—	—	
32					—	—	—	
33					—	—	—	
34					6.0	4.2	1.8	1.2
35					—	—	—	

Sum 69.6
Mean 5.4

+ 1.1
− 1.7
13 | ± 2.8
± .22

The signals are working very poorly and it is difficult to make certain that the above marking is correct.
Signals were alternate 8ˢ and 2ˢ.

Bond 394 = 1.ˢ1 fast.

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26 (a)

Times Measures

26	61	19	52	07	7.6	5.8	1.8	7.1	7.4 ✓	5
27	62			17	7.5	5.4	2.1	7.4	7.4 ✓	1
28	63			27	7.2	5.0	2.2	7.5	7.4 ✓	3
29	64			37	8.3	4.3	4.0	9.3	8.8 ✓	10
30	65			47	—	—	—			
31	66			57	—	—	—			
32	67	19	53	07	—	—	—			
33	68			17	—	—	—			

(21) Sum 111.3 ✓
Mean 5.3 ✓

21 | 111.3 | 5.3
10.3
63
63

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1902phae.proj.1772.

S. Cancri

Measures 9, 19, etc., copied from Book 16, p. 132 - 4.14 AE
15, p. 147. RWL

"C 13254 "April 27. 1902

Copied for printer

1	t		
	14 57.5	3p	
	14 59.5	f9	
	15 04.5	f7	
12	15 07.5	3p	
	15 09.5	f9	
	15 14.5	f9	
22	15 17.5	3p	
	15 19.5	f9	
	15 24.5	f8	

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1902phae.proj.1772.

C 13254 April 27, 1902

32 /5- 27.5 30

15 29.5 29

—

42 /5- 37.5 30

—

—

52 /5- 47.5 30

—

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1902phae.proj.1772.

C 13254 April 27, 1902.

62 15 57.5 ~~30~~

16 60.5
〃
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72 〃
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Dense interfered

77 16 12.5

82 16 17.5

16 19.5 ~~89~~ 89

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1902phae.proj.1772.

C13254 April 27, 1902

—

92 / 6 27.5

16 29.5 g

—

102 / 6 37.5

16 39.5 g

—

112 / 6 47.5

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1902phae.prpj.1772.

c 13254 April 27 1902

119 16 5-4.5-
t

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1902phae.proj.1772.

U. Cephei

C 13258 April 28. 1901.

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1902phae.proj.1772.

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1902phae.proj.1772.

Occultation of i Virginis

C 13263 May 1, 1901

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1902phae.proj.1772.

Occultation of i Virginis

C 13264 May 1. 1901.

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1902phae.proj.1772.

Occultation of i Virginis

C 13265 May 1. 1901.

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1902phae.proj.1772.

U. Cephei

C 13268 May 3. 1901.

1		t		
	13	43	30	
12	13	53	30	
22	14	03	30	

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1902phae.proj.1772.

C 13268 May 3. 1901.

31 14 12 30

c
c
c
c
c
c
c
c
c
c

Bond 394 = 0.^{s}4 slow

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1902phae.proj.1772.

U. Cephei

C 13269 May 3. 1901

1 t

14 58 30

12 15 08 30

22 15 18 30

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1902phae.proj.1772.

C 13269 May 3 1901.

32 15 28 30

42 15 38 30

52 15 48 30

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1902phae.proj.1772.

C 13269 May 3. 1901

62 15 58 30

72 16 08 30

82 16 18 30

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1902phae.proj.1772.

C 13269 May 3. 1901

9216 28 30

10216 38 30

11216 48 30

16 51 30

116 t

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1902phae.proj.1772.

C 13269 May 3. 1901.

Bond 394 = 0.^{s}4 fast.

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1902phae.proj.1772.

S. Cancri

C13273 May 6. 1901.

No images on plate.
Probably too cloudy.

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1902phae.proj.1772.

U. Cephei

C 13278 May 8. 1901.

	t		
1	13	26	32
12	13	36	32
22	13	46	32

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1902phae.proj.1772.

C. 13278 May 8. 1901

3213 56 32

4214 06 32

5214 16 32

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1902phae.proj.1772.

C 13278 May 8. 1901

62 14 26 32

72 14 36 32

82 14 46 32

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1902phae.proj.1772.

© 13278 May 8. 1901.

9 21 4 56 32

10 21 5 06 32

10 7 15 11 32
c
c
dc dc

Bond 394 = $0^{s}.2$ slow

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1902phae.proj.1772.

Dis. of Jup. Sat. I

C 13283 May 12. 1901.

1		t		
	17	55	17 09	
12	17	56	57 ~~49~~	
22	17	58	37 ~~29~~	

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1902phae.proj.1772.

C 13283 May 12. 1901

32 18 00 09 17

42 18 01 49 57

52 18 03 29 37

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1902phae.proj.1772.

Copied in by R.W.L. from Book 7.

C 13283 May 12. 1901

12		18 04 57	5.0	4.0	1.0	5.1	5.0	.1		
13		18 04 57	4.0	4.3	.3	3.8	3.9	.2		
14		18 05 1 07	4.7	4.3	.4	4.5	4.6	.2		
15	62	18 05 2 07	4.6	4.3	.3	4.4	4.5	.2	7|31	
16		18 05 3 07	4.4	4.2	.2	4.3	4.4	.1	4.4	
17		18 05 4 07	4.2	4.2	.0	4.1	4.2	.1		
18		18 05 5 07	4.6	4.3	.3	4.4	4.5	.2		
19		18 05 0 07	4.8	4.0	.8	4.9	4.8	.1		
20		18 06 1 07	4.6	3.7	.9	5.0	4.8	.4		
21		18 06 27	4.8	4.2	.6	4.7	4.8	.1		
22		18 06 3 07	5.2	4.3	.9	5.0	5.1	.2		
23		18 06 4 07	4.8	4.2	.6	4.7	4.8	.1		
24		18 06 5 07	5.2	4.2	1.0	5.1	5.2	.1		
25	72	18 06 07 49	5.2	4.0	1.2	5.3	5.2	.1		
26		18 07 1 07	5.2 (5.4)	3.8	1.4 (1.6)	5.5	5.4	.3		
27		18 07 27	4.0 (4.5)	3.7	.3 (.8)	4.9	4.7	.4		
28		18 07 3 07	5.7 (5.4)	4.6 (4.3)	1.1	5.2	5.3	.5	.2	
29		18 07 4 07	5.3	3.8 (4.2)	1.5 (1.1)	5.2	5.3	.3	.1	
30		18 07 5 07	5.8	4.1	1.7	5.8	5.8	.0		
31		18 07 0 07	5.9	4.4	1.5	5.6	5.8	.3		
32		18 08 1 07	5.8	4.3	1.5	5.6	5.7	.2		
33		18 08 2 07	6.0	4.0	2.0	6.1	6.0	.1		
34		18 08 3 07	—	—	—	—				
35	82	18 08 4 07 29	7.4 (8.3)	4.7	2.7	6.8	7.1	.6		
36		18 08 5 07	7.0	3.9 (4.4)	3.1	8.5	8.4	.2		

24) 995 (4.1
96
35

Sum 995
Mean 4.1

+3.1 +2.9
−2.0 −1.7
24 +5.1 4.6
±.21 ±.19

Measures in green from Bk 14, p. 27.

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1902phae.proj.1772.

C 13283 May 12. 1901

92 18 10 ~~09~~ 17

102 18 11 ~~49~~ 57

112 18 13 ~~29~~ 37

18 14 ~~09~~ 17

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1902phae.proj.1772.

C 13283 May 12. 1901.

117 t

There is no watch error recorded but the observer never allows his watch to get over 30^s in error. It is, therefor, probable that the above ~~times~~ are very nearly correct.

Bond 394 = 0.^{s}1 fast.

On May 13th ~~the~~ watch is 8 sec slow. Therefore about 8 sec should be added to above ~~times~~ to correct for watch error.

Added 8^s to all

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1902phae.proj.1772.

U. Cephei

C 13286 May 13. 1901

1 t
13 07 28

12 13 17 28

22 13 27 28

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1902phae.proj.1772.

C 13286 May 13. 1901

32 13 37 28

36 13 41 28

Clds

}

Bond 394 = 0.5 foot.

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1902phae.proj.1772.

U Coronae

C 13287 May 13. 1901

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1902phae.proj.1772.

Diff. of Jupt. Sat. II

Copied in by R.W.L. from Book 7.

C 13288 May 13. 1901

	t
1	20 22 09
12	20 23 49

									v	✓		
10		20	25	09	4.8	4.9	.1	4.6	4.7 v		.2
11		20	25	19	4.8	5.3	.5	4.2	4.5 v		.6
12	22	20	25	29	5.5 5.6 v	4.8	.7 .8 v	5.5	5.6 v		.1
13		20	25	39	4.3 v 4.8	4.2	.1 v .6	4.8	4.6 v		.5
14		20	25	49	5.2	4.5	.7	5.4	5.3 v		.2
15		20	25	59	4.8	4.3	.5	5.2	5.0 v		.4
16		20	26	09	5.2	4.9	.3	5.0	5.1 v	71 34 v 5.0	.2
17		20	26	19	5.3 5.3 v	4.7 5.8	.6 v .5	5.3	5.3 v		1.1 .0
18		20	26	29	5.3	4.8	.5	5.2	5.2 v		.1
19		20	26	39	5.4	4.6	.8	5.5	5.4 v		.1

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1902phae.proj.1772.

C 13288 May 13. 1901

20		20	26	49	5.3	4.3	1.0	5.7	5.5 v	.4
21		20	26	59	5.4	4.8	.6	5.3	5.4 v	.1
22	32	20	27	09	5.8	4.9	.9	5.6	5.7 v	.2
23		20	27	19	5.6	4.5	1.1	5.8	5.7 v	.2
24		20	27	29	5.8	4.3	1.5	6.2	6.0 v	.4
25		20	27	39	5.7 / 5.6 v	4.4	1.3 / 1.2 v	5.9 / 6.0	5.8 v	.3
26		20	27	49	6.3 / 6.7 v	4.6	1.7 / 2.1 v	6.8 / 6.4	6.4 v	.1
27		20	27	59	6.2	4.7	1.5	6.2	6.2 v	.0
28		20	28	09	6.3	4.8	1.5	6.2	6.2 v	.1
29		20	28	19	6.8	4.8	2.0	6.7	6.8 v	.1
30		20	28	29	7.3	4.8	2.5	7.2	7.2 v	.1
31		20	28	39	7.7	4.8	2.9	7.6	7.6 v	~~.3~~ .1
32	42	20	28	49	8.2	5.0	3.2	7.9	8.0 v	~~.3~~ .3
33					—	—	—			
34					—	—	—			

Sum 1077 / 1088 v

Mean 4.7

	+ 3.3	+ 2.2
	− 2.6	− 2.6
23	+ 5.9	+ 4.8
	± .26	± .21

22 | 1077 (47) 92 17 16 1

20 30 09

51 t

Bond 394 = 0.5 foot.

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1902phae.proj.1772.

W. Delphini

C 13291 May 15, 1901

Useless

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1902phae.proj.1772.

S. Canari

C 13292 May 16. 1901

Useless

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1902phae.proj.1772.

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1902phae.proj.1772.

U. Coronae

C 13301 June 3. 1901

	t
	15 28 25
12	15 38 25
22	15 48 25

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1902phae.proj.1772.

© 13301 June 3. 1901

3 2 15 58 25

4 2 16 08 25

5 2 16 18 25

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1902phae.proj.1772.

C 13301 June 3. 1901

62 16 28 25

72 16 38 25

82 16 48 25

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1902phae.proj.1772.

C 13301 June 3. 1901

9h 16 58 25

10h 17 08 25

17 16 25

111 t

c

c

Bond 394 = 0.s9 Yost.

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1902phae.proj.1772.

Nu. d Sagittarii

C 13304 June 4. 1901

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1902phae.proj.1772.

Emersion d Sagittarii

C 13305 June 4. 1901

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1902phae.proj.1772.

4 Delphini

C 13311 June 8, 1901

	t	
14	15	26
12 14	25	26
22 14	35	26

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1902phae.proj.1772.

C 13311 June 8. 1901.

32 14 45 26

42 14 55 26

52 15 05 26

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1902phae.proj.1772.

C 13311 June 8. 1901

62 15 15 26

72 15 25 26

82 15 35 26

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1902phae.proj.1772.

C 13311 June 8. 1901

92 15 48 26

102 15 55 26

108 16 00 26 t

The above times may be one minute in error as there is some ambiguity about the record.

Bond 394 is O.K.

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1902phae.proj.1772.

78

W. Delphini

© 13312 June 8, 1901

	t
16	09 26
12 16	29 26
22 16	39 26

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1902phae.proj.1772.

C 13312 June 8. 1901

32 16 49 26

42 16 59 26

52 17 09 26

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1902phae.proj.1772.

C 13312 June 8. 1901

6 2 17 19 26

7 2 17 29 26

8 2 17 39 26

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1902phae.proj.1772.

C 13302 June 8. 1901

92 17 49 26

102 17 59 26

112 18 09 26
18 10 26
114 t

Bond 394 = "O. K."

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1902phae.proj.1772.

W. Delphini

@ 13313 June 8, 1901

	t		
1	18	27	26
12	18	37	26
22	18	47	26

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1902phae.proj.1772.

© 13313 June 8. 1901

32 18 57 26

42 19 07 26

52 19 17 26

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1902phae.proj.1772.

C 13313 June 8. 1901

62 19 27 26

~~78~~ 19 37 26

82 19 47 26
19 48 26
84 t

Bond 394 is "O. K."

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1902phae.proj.1772.

U Coronae

C 13314 June 10. 1901

	t
1	13 24 30
12	13 34 30
22	13 44 30

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1902phae.proj.1772.

C 13314 June 10. 1901

32 13 54 30

42 14 04 30

52 14 14 30

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1902phae.proj.1772.

C 13314 June 10. 1901.

6h 14 24 30

7h 14 33 30 t

Bond 394 = 0.9 fast.

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1902phae.proj.1772.

00

U. Coronae

C 13315 June 30. 1901

1	t
14	51 30

12	15 01 30

22	15 11 30

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1902phae.proj.1772.

C 13315 June 10. 1901.

3 2 15 21 30

4 2 15 31 30

5 2 15 41 30

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1902phae.proj.1772.

C 13315 June 10. 1901

6 2 15 01 30

7 2 16 01 30

8 2 16 11 30

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1902phae.proj.1772.

C 13315 June 10, 1901.

92 16 21 30

102 16 31 30

112 16 41 30
16 42 30
"
"

Bond 394 = 0.9 fast.

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1902phae.proj.1772.

Dis. Jup. Sat. I

C 13320 June 11. 1901

1 t
19 59 04

12/20 00 44

22/20 02 24

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1902phae.proj.1772.

C 13320 June 11. 1901

32 20 04 04

42 20 05 44

52 20 07 24

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1902phae.proj.1772.

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C 13320 June 11, 1901

16		20	08	44	7.0	6.2	.8	7.3	7.2	.3	
17		20	08	54	6.8	6.6	.2	6.7	6.8	.1	
18	62	20	09	04	6.8	6.7	.1	6.6	6.7	.2	
19		20	09	14	7.6 (6.8)	6.2 (.6)	1.4	7.1	7.0	.3	
20		20	09	24	6.8	6.6	.2	6.7	6.8	.1	10 | 6.7 | 6.9
21		20	09	34	6.9	6.8	.1	6.6	6.8	.3	
22		20	09	44	6.9	6.2	.7	7.2	7.0	.3	
23		20	09	54	7.2	6.4	.8	7.3	7.2	.1	
24		20	10	04	6.9	6.4	.5	7.0	7.0	.1	
25		20	10	14	6.7	6.3	.4	6.9	6.8	.2	
26		20	10	24	7.6 7.8	6.6	1.0 1.2	7.5	7.8	.1	
27		20	10	34	7.5	6.6	.9	7.4	7.4	.1	
28	72	20	10	44	7.6	6.6	1.0	7.5	7.6	.1	
29		20	10	54	7.3 7.2	6.4 5.7	1.5	7.3	7.2	.8	.1
30		20	11	04	7.4 6.8	6.9 7.0	.5 .2	6.9	7.2	.5	.4
31		20	11	14	7.6	6.2 6.3	1.4 1.3	7.8	7.8	.2	.3
32		20	11	24	7.7	6.8	.9	7.4	7.6	.3	
33		20	11	34	7.4	6.8	.6	7.1	7.2	.3	
34		20	11	44	7.5	6.4	1.1	7.6	7.6	.1	
35		20	11	54	8.2	6.4	1.8	8.3	8.2	.1	
36		20	12	04	7.8 8.4	6.3 5.7	1.5 2.7	8.0	7.9	.8	.2
37		20	12	14	7.7 9.2	6.7	1.0 2.5	7.5	7.6	.2	
38	82	20	12	24	8.3	6.6	1.7	8.2	8.2	.1	
39		20	12	34	9.0	6.4	2.6	9.1	9.0	.1	
40		20	12	44	—	—	—				

15 61

Sum 1550

Mean 6.5

24 | 15 61 | 64 | 61

+2.4 +2.3
−3.4 −2.2
24 | +5.8 +4.5
±.25 ±.19
±.24

1902phae.proj.1772.

C 13320 June 11. 1901.

9z 20 14 04

10z 20 15 24

Sat has disappeared.

Band 394 = 0.59 foot.

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1902phae.proj.1772.

Dis. Inf. Sat I.

C 133 24 June 13. 1901

Useless

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1902phae.proj.1772.

N. Delphini

Even measures copied from Book 16, p. 179.-A.F.
Odd " " " 15, p. 192.-R.W.L.

C 13325 June 13, 1901.

1		t			
	16	28	33	c4	
	16	33	33	c5	
	16	38	33	c4	
	16	43	33	c4	
6	16	48	33	c2	
	16	53	33	c4	Copied for printer.
	16	58	33	c2	
	17	03	33	c3	
	17	08	33	c1	
	17	13	33	c2	
12	17	18	33	c1	
	17	23	33	c1	
	17	28	33	c1	
	17	36	03	b9	
	17	43	33	c0	
	17	48	33	b8	
18	17	53	33	c0	
	17	58	33	b8	
	18	03	33	c0	
	18	08	33	b8	
	18	13	33	b9	
	18	18	32	b8	
24	18	23	32	b9	
		t			

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Even measures copied from Book 16, p. 179
Odd " " " 15, p. 193

W. Delphini

C 13326 June 13. 1901.

		t		
1	18	43	33	b9
	18	48	32	b7
	18	53	33	b8
	18	58	32	b7
6	19	03	33	b8
	19	08	32	b7
	19	13	33	b9
	19	18	32	b6
	19	23	33	b8
	19	28	32	b6
12	19	33	33	b8
	19	38	32	b7
	19	43	33	b8
	19	48	32	b8
	19	53	33	b7
	19	58	33	b8
18		t		b7

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Even measures copied from Book 16, p. 165 - a.E.
Odd " " " " 15, p. 180 R.W.L.

Ceraski's Var

C 13327 June 14, 1901.

1				
	13	51	02	e5
	14	01	02	f8
	14	11	02	e7
56	14	21	02	g0
6	14	31	02	f8
	14	41	02	g6
	14	51	02	—
	15	01	02	h8
	15	11	02	—
	15	21	02	
12				

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1902phae.proj.1772.

U. Coronae

C 13333 June 17. 1901

Useless

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C 13333 June 17. 1901

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M. Coronae

C 13334 June 17, 1901

Useless

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1902phae.proj.1772.

C 13334

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1902phae.proj.1772.

W. Delphini

PLOTTED

C 13337 June 18. 1901

Eyes measures from B.16, p.40.
Odd " " " Bk15, p.52

1		t		b7
	13	58	30	b7
		03	30	b8
	14	08	30	b7
		13	30	b7
6	14	18	30	b8
		23	30	b8
	14	28	30	b7
		33	30	b9
	14	38	30	—
		43	30	b8
12	14	48	30	b7
		53	30	b9
	14	58	30	b9
		03	30	b8
	15	08	30	b8
		13	30	b8
18	15	18	30	b7
		23	30	b8
	15	28	30	b8
		33	30	b8
22	15	38	30	b7
		t		b8

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1902phae.proj.1772.

U. Cephei

C 13339 June 19, 1901.

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1902phae.proj.1772.

U. Coronae

C 13352 June 27. 1901

	t
13	22 27

12 13 32 27

22 13 42 27

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1902phae.proj.1772.

C 13352 June 27. 1901

32 13 52 27

42 14 02 27

52 14 12 27

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1902phae.proj.1772.

C 13352 June 27. 1901

62 14 22 27

72 14 32 27

82 14 42 27

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1902phae.proj.1772.

C 13352 June 27. 1901

92 14 52 27

102 15 02 27

112 15 12 27

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1902phae.proj.1772.

C 13352 June 27. 1901

15 17 27
118 t

Bond 394 = 1.7 fast.

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1902phae.proj.1772.

U Coronae

C 13353 June 27. 1901

Uncertainty about identification. and as the clds, as well as the signals, interfered, it will hardly pay to work time on the plate.

H. R. C.

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1902phae.proj.1772.

U. Cephei

C 13360 June 29. 1901.

No images on plate

" Clds 7"

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1902phae.proj.1772.

Occultation Lalande 35497

C 13366 July 1. 1901

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1902phae.proj.1772.

Re. Jup. Sat. II

C 13367 July 2. 1901.

135 17 21 04

145 17 22 44

155 17 24 24

161 17 25 14 t

(over)

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1902phae.proj.1772.

C 13367 July 2. 1901

Reappearance not yet complete
"Large aperture on"

1 t
17 45 04

10 17 46 24

17 46 54

14 t
"Small aperture on"

1 t
17 48 24

13 17 50 14

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1902phae.proj.1772.

C 13367 July 2. 1902

14 t

Eclipse evidently occured later than predicted time, therefor, the "apertures" were marked as well as the latter part of the eclipse proper.

The times are probably in error by a few seconds as there is no record of the error of the watch. The maximum error would be 30.^{s} as the observer never allows his watch to be more than that much in error.

Bond 394 = 0.^{s}3 slow.

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1902phae.proj.1772.

Thibault
from Bk. 7
to Bk 6 p. 56.

Re. Sup. Set. I

C 13385 July 15. 1901.

9				—	—	—	v	v	
10	13	28	44	9.3	6.8	2.5	9.3	9.3 v	0
11	13	28	54	8.8	6.8	2.0	8.8	8.8 v	0
12	13	29	04	8.2	6.7	1.5	8.3	8.2 v	.1
13	13	29	14	7.8	6.7	1.1	7.9	7.8 v	.1
14	13	29	24	7.6	6.8	.8	7.6	7.6 v	0
15	13	29	34	7.7	6.8	.9	7.7	7.7 v	0
16	13	29	44	7.4	6.8	.6	7.4	7.4 v	0
17	13	29	54	7.4	6.7	.7	7.5	7.4 v	.1
18	13	30	04	7.3	6.7	.6	7.4	7.4 v	.1
19	13	30	14	6.8	6.8	0	6.8	6.8 v	0
20	13	30	24	6.8	6.6	.2	7.0	6.9 v	.2
21	13	30	34	7.1	7.0	.1	6.9	7.0 v	.2
22	13	30	44	6.8	6.8	0	6.8	6.8 v	0
23	13	30	54	6.3	6.8	.5	6.3	6.3 v	0
24	13	31	04	6.3	6.6	.3	6.5	6.4 v	.2
25	13	31	14	6.2	6.5	.3	6.5	6.4 v	.3
26	13	31	24	6.3	6.8	.5	6.3	6.3 v	0
27	13	31	34	6.5	6.8	.3	6.5	6.5 v	0
28	13	31	44	6.7	7.0	.3	6.5	6.6 v	.2
29	13	31	54	6.4	6.8	.4	6.4	6.4 v	0
30	13	32	04	6.3	6.7	.4	6.4	6.4 v	.1
31	13	32	14	6.3	6.8	.5	6.3	6.3 v	0
32	13	32	24	6.2	6.7	.5	6.3	6.2 ✓	.1
33	13	32	34	6.3	6.8	.5	6.3	6.3 v	0

Sum 1623 v.
Mean 6.8 v

10 | 63.6
6.4

24 | 162.3
144
183
168
15

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1902phae.proj.1772.

+45.3062

C 13390 July 16. 1901.

"No signals"

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1902phae.proj.1772.

Jup. Sat I

C 13398 July 22. 1901

	t	
1	C	
~~10~~	~~18~~	~~35~~

16	~~10~~	~~20~~	~~35~~

22	~~10~~	~~21~~	~~35~~

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Copied in by R.W.L.
from Book 7.

C 13398 July 22. 1901

5											
6						8.3	9.0	5.3	3.0 / 3.7	7.4	.9
7	32	10	23	15	7.5 / 7.8		5.7	1.8 / 2.1	6.2	7.2 / 6.8	1.3
8		15	23	54	7.3 / 7.4		5.3	2.0 / 2.1	6.4	7.0 / 6.8	.9
9		15	24	04	7.3 / 7.4		5.3	2.0 / 2.1	6.4	7.0 / 6.8	.9
10		15	24	14	7.8 / 7.2		5.7	2.1 / 1.5	6.5	7.2	1.3
11		15	24	24	8.2 / 7.7		5.4	2.8 / 2.3	7.2	7.7	1.0
12		15	24	34	7.7 / 7.3		5.4	2.3 / 1.9	6.3	6.8 / 7.2	1.0
13		15	24	44	6.5 / 6.0		4.7	1.8 / 1.3	6.2	6.4	.3
14		15	24	54		6.0	4.3	1.7	6.1	6.0	.1
15		15	25	04		5.8	3.9	1.9	6.3	6.0	.5
16		15	25	14		5.8	3.7	2.1	6.5	6.2	.7
17	42	15	24	24 / 55		5.6	3.8	1.8	6.2	5.9	.6
18		15	25	34		5.6	3.7	1.9	6.3	6.0	.7
19		15	25	44	5.6 / 5.4		3.2	2.4 / 2.2	6.6 / 6.4	6.2	1.2
20		15	25	54	5.5 / 5.4		3.2	2.3 / 2.2	6.6 / 6.4	6.2	1.2
21		15	26	04		5.7	3.7	2.0	6.4	6.0	.7
22		15	26	14	6.3	6.9	4.8 / 6.2	1.5 / .7	5.9	6.1	1.8 .4
23		15	26	24		6.0	4.8	1.2	5.6	5.8	.4
24		15	26	34		5.8	3.7	2.1	6.5	6.2	.7
25		15	26	44		5.7	4.3	1.4	5.8	5.8	.1
26		15	26	54		5.8	4.8	1.0	5.4	5.6	.4 10/580 / 5.8
27	52	15	26	04 / 38		5.3	4.0 / 4.3	1.3 / 1.0	5.1	5.4 / 5.5	.4 .1
28		15	27	14		5.4	4.2 / 4.4	1.2 / 1.0	5.1 / 5.6	5.4 / 5.5	.2 .0
29		15	27	24	5.3	5.2	3.4	1.8 / 1.9	6.3 / 5.2	5.8 / 5.8	1.0
30		15	27	34	5.3	5.2	3.1	2.1 / 2.2	6.8 / 6.5	6.0	1.3
											+10.2 +8.8
											−9.4 −8.9
											25 +19.6 +17.7
											±.78 ±.71
									10 99		
								Sum	1108	1094	
								Mean	4.4	4.4	

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1902phae.proj.1772.

C 13398 July 22. 1901

62 ~~10 28 15~~

72 ~~10 29 55~~

83 ~~10 31 45~~

Will not mark farther as star has completely reappeared.

B 394 = 0.5 fast,

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1902phae.proj.1772.

Eclipse Inf Sat IV

C 13402 July 23. 1901.

Useless.

Clds.

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1902phae.proj.1772.

Cerasky's Variable

+45. 3062

Extra measures copied from Book 16, p. 165. AG.
Odd " " " " 15, p. 180. RWL

C 13420 August 8. 1901.

	t			
1	17	16	56	d'9
	17	26	56	d9
	17	36	56	d'8
	17	46	56	d2
6				

Above time presumably correct. Clock and clds spoiled remaining images.

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1902phae.proj.1772.

Re. Jup. Sat I.

C 13427 August 14. 1901.

Sat. does not show: Too cloudy.

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1902phae.proj.1772.

U. Coronae

C 13434 August 18. 1901.

Useless

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1902phae.proj.1772.

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1902phae.proj.1772.

Occultation of Lelande 35497

C 13451 August 25. 1901

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1902phae.proj.1772.

Cerasxia Variable

+45. 3662

Even measures from Book K 16, p. 165. &c.
Odd " " " 15, p. 189 Rec.

C 13455 August 26. 1901

1	t			t		
	15	21	58 c5	15	22	50
	15	31	58 c7	15	32	50
	15	41	58 c7	15	42	50
	15	51	58 c8	15	52	50
	16	01	58 c9	16	02	50
→	16	11	58 c9	16	12	50
	16	21	58 c9	16	22	50
	16	31	58 d6	16	32	50
	16	41	58 c9	16	42	50
	16	51	58 c4	16	52	50
	17	01	58 d1	17	02	50
13	t			t		

Bond 394 = 1.0 Slow

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1902phae.proj.1772.

+45.3062

C 13456 August 26. 1901.

	t		
	17	21	50
	17	31	50
	17	41	50
	17	51	50
	18	01	50
	18	11	50
	18	21	50
	18	31	50
	18	41	50
	18	51	50
	19	01	50
13	19	11	50
	C		
	C		

Variable is too faint for measurement.

"Dec 5"

Bond 394 = 1.0 slow

Uncertain whether the above times are correct or 10^s slow

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1902phae.proj.1772.

Copied in by R.W.T. from Book 7.

Re. Jup. Sat II

C 13460 August 28, 1901.

	1	~~14~~	04	~~55~~								
	2	14	04	55								
		14	05	05								
		14	05	15								
		14	05	25								
	6	14	05	~~45~~ 35								
		14	05	45								
3		14	05	55 ✓	—	—	—	✓	✓			
4		14	06	05	8.7	5.4	3.3	8.7	8.7 ✓		.1	.0
5		14	06	15	8.3	5.5	2.8	8.2	8.2 ✓		.0	.1
6		14	06	25	7.3 7.3 ✓	5.0 5.0	2.3	7.7	7.5 ✓		.5	.4
7		14	06	35	7.7	5.6 4.9	2.1 2.8 ✓	8.2	8.0 ✓		.1	.5
8		14	06	45	7.2	5.2	2.0	7.4	7.3 ✓		.3	.2
9		14	06	55	7.3 7.2 ✓	5.5	1.8 1.7 ✓	7.1 2	7.2 ✓		.0	.1
10		14	07	05	6.2 6.6 ✓	5.5	.7 1.1 ✓	6.1 1	6.1 2 ✓		.0	.1
11	16	14	07	~~25~~ 15 ✓	6.7	5.6	1.1	6.5	6.6 ✓		.1	.2
12		14	07	25	6.5	5.3	1.2	6.6	6.6 ✓		.2	.1
13		14	07	35	5.9	5.3	.6	6.0	6.0 ✓		.2	.1
14		14	07	45	5.9	5.2	.7	6.1	6.0 ✓		.3	.2
15		14	07	55	6.0	5.7	.3	5.7	5.8 ✓		.2	.3
16		14	08	05	5.5	5.7	.2	5.2	5.4 ✓		.2	.3
17		14	08	15	5.8	5.4	.4	5.8	5.8 ✓		.1	.0
18		14	08	25	5.8	5.6	.2	5.6	5.7 ✓		.1	.2
19		14	08	35	5.8	5.7	.1	5.5	5.6 ✓		.2	.3
20		14	08	45	5.6	5.0 5.3	.6 .3 ✓	6.0 5.7	5.8 4 ✓		.4 .5	.1
21	26	14	08	~~55~~ 8	5.6	5.7 5.5	.1 ✓	5.8 3	5.8 4 ✓		+3 .2	.1
22		14	09	05	5.3	5.4	.1	5.3	5.3 ✓		.1	.0
23		14	09	15	5.2	5.7	.5	4.9 ✓	5.0 ✓		.2	.3
24		14	09	25	5.4 5.8 ✓	5.7	.3 .1 ✓	5.8 3	5.8 6 ✓		.2	.3

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1902phae.proj.1772.

C 13460 August 28. 1901

25	14	09	35	5.4	5.5	.1	5.3	5.4		-0	.1	
26	14	09	45	5.6	5.6	.0	5.4	5.5		.1	.2	
27	14	09	55	5.4	5.6	.2	5.2	5.3		.1	.2	
						1308				+ 1.7	+ 2.8	
Sum				13	4	24	1307	5.4		− 2.3	− 1.6	
Mean				~~5.5~~		5.4	120 .07			24 + 4.0	+ 4.4	
										± .17	± .18	

36 ~~14 10 45~~

~~14 10 55~~

38 t

6/433 5.4

Bond 394 = "O. K."

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1902phae.proj.1772.

11 Cephei

C 13462 August 28. 1901

Wrong R. A. taken for C 13461 and 13462 fogged so that it is useless.

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1902phae.proj.1772.

Re. Jup. Sat. I.

C 13474 August 30. 1901.

Out of focus

Useless.

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1902phae.proj.1772.

Occultation of λ Piscium

C 13475 August 30. 1901.

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1902phae.proj.1772.

Occultation of λ Piscium

C 13476 August 30. 1901.

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1902phae.proj.1772.

11. Coronae

C 13480 Sept. 4. 1901

1 t.

14 36 28

14 38 28
c
14 40 28

12 14 46 28

14 48 28
15 c

Drving signals evidently having a fit.

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1902phae.proj.1772.

11. Cephei

C 13489 Sept. 7. 1901.

1 t
16 37 37

12 16 47 37

22 16 57 37

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1902phae.proj.1772.

C 13489 Sept. 7. 1901

3217 07 37

42 17 17 37

52 17 27 37

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1902phae.proj.1772.

© 13489 Sept. 7. 1901

62 17 37 37

72 17 47 37

82 17 57 37

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1902phae.proj.1772.

C 13489 Sept 7. 1901

92 18 07 37

102 18 17 37

112 18 27 37

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1902phae.proj.1772.

C 13489 Sept 7. 1901

18 33 37
t

Bellow 103 is 0.2 S fast.

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1902phae.proj.1772.

Re. Sup. Sat. III

C/13497 Sept 9. 1901.

	t		
	13	12	31
	13	14	01
	13	15	31

12	13	23	4	31

22	13	33	4	31

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1902phae.proj.1772.

C 13497 Sept. 9. 1901.

13 43 4 31

33 t

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1902phae.proj.1772.

Nova Persei

C 13503 Sept. 13. 1901

1	t		
	18	57	59
	18	07	59
4		t	

Above times are probably correct, although there should be several more images on the plate.
No error of Willard recorded

~~Bond~~

Ballon 103 = 1.54 post.

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1902phae.proj.1772.

Nova Persei

C 13504 Sept. 13. 1901

1		t	
	19	47	59
	19	57	59
	20	07	59
	20	17	59
6		t	

← See note on opp. page

Ballon 103 = 1.5 4 foot.

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1902phae.proj.1772.

Ceraski's Variable

+45. 3062

Form 104 measures copied from Book 16, p. 166, -AE

C " 13526 " Sept 23. 1901 " " 15, p. 180 RW

Can not be marked with any degree of certainty. Record incomplete

1

c5
c6
c4

6

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1902phae.proj.1772.

Cerasky's variable

+ 45.3062

Eve measures ~~copied from~~ Book 16, p. 166, - AE
Odd " " " " 15, p. 181. RWL

C 13527 Sept 23. 1901.

	t			G.M.T.		
	12	54	29 c4	12	55	29
	13	04	29 c5	13	05	29
	13	14	29 c2	13	15	29
→	13	24	29 c3	13	25	29
	13	34	29 c2	13	35	29
7	13	44	29 c0	13	45	29
8		t	c0		t	

Alternate 9 and 1 minute signals

~~Boul 39~~

Ballon 103 = 1.1 foot.

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1902phae.proj.1772.

W. Delphini

C 13542 Sept 27. 1901

Uselessness

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1902phae.proj.1772.

Nova Persei

C 13551 Oct. 3. 1901

Marking uncertain as there is one image too few on the plate.

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1902phae.proj.1772.

Nova Persei

C 13552 Oct 3. 1901.

	t
1	21 17 05
	21 27 05
4	21 37 35

Signals failed and image of 4 held about eleven minutes exposure. It was closed by hands.

Ballon 0.5 Lost.

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1902phae.proj.1772.

Occultation of R Cancri

C 13565 Oct 6. 1901

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1902phae.proj.1772.

Re. Jup. Sat. I.

C 13571 Oct. 8. 1901.

1 t
12 19 33 ✓

12 12 21 13

22 12 22 53

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1902phae.proj.1772.

Copied in by R.W.L. from Book 7.

C 13571 Oct 8. 1901

32 12 24 33

42 12 26 13

7				—	—	—	v	✓	
8		12	27	33	9.4	3.6	5.8	9.4	9.4 v	.0
9		12	27	43	8.3	3.6	4.7	8.3	8.3 v	.0
10	52	12	27	53	7.5	4.0	3.5	7.1	7.3 v	.4
11		12	28	03	7.4 v 6.2	3.8	3.6 v 2.4	7.2	7.3 v	.2
12		12	28	13	6.4	3.4	3.0	6.6	6.5 v	.2
13		12	28	23	5.8	3.6	2.2	5.8	5.8 v	.0
14		12	28	33	5.3	3.6	1.7	5.3	5.3 v	.0
15		12	28	43	5.4	3.8	1.6	5.2	5.3 v	.2
16		12	28	53	5.0	3.6	1.4	5.0	5.0 v	.0

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1902phae.proj.1772.

C 13571 Oct 8. 1901

17		12	29	03	4.5 (5.2)	2.7 (3.4)	1.8	5.4	5.3	.9	.2
18		12	29	13	5.3 (4.7)	4.4 (3.6)	.9 (1.1)	4.7	4.7	.8	.0
19		12	29	23	4.8	3.0 (2.8)	1.8 (2.0)	5.4	5.2	.6	.8
20	62	12	29	33	4.7	3.6	1.1	4.7	4.7	.0	
21		12	29	43	4.6	3.7	.9	4.5	4.6	.1	
22		12	29	53	4.4	3.7	.7	4.3	4.4	.1	
23		12	30	03	4.9	3.6	1.3	4.9	4.9	.0	
24		12	30	13	4.5	3.6	.9	4.5	4.5	.0	
25		12	30	23	3.8	3.6	.2	3.8	3.8	.0	
26		12	30	33	3.8	3.8	.0	3.6	3.7	.2	
27		12	30	43	4.4	3.3 (3.2)	1.1 (1.2)	4.7	4.6	.3	.1
28		12	30	53	4.7	3.8	.9	4.5	4.6	.2	
29		12	31	03	4.0	4.0	.0	3.6	3.8	.4	
30	72	12	31	13	3.8	3.6	.2	3.8	3.8	.0	
31		12	31	23	4.3	3.8	.5	4.1	4.2	.2	
										+2.8	+2.0
										−2.0	−1.6
									24	+4.8	+3.6
										±.2	±.15

Sum 87.2 (868) (27) 87.1 (3.6)
Mean 3.6

8/330 = 41

82 12 32 53

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1902phae.proj.1772.

C 13571 Oct. 8. 1901.

92 12 34 33
93 t

There is an error of 10.^{s} somewhere in the above markings but as only two times, the beginning and ending, are given it is impossible to say just where the error occurs.

" Ballow = 0.^{s}6 foot.

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1902phae.proj.1772.

Ceraski's Variable

+45. 3062

Even measures copied from Book 16, p. 166, -AE,
15 p. 181 RWF
Odd C" 13578" Oct 17. 1901.

1		t		
	13	36	~~02~~	m3
		46	~~02~~	m5
		56	~~02~~	m1
	14	06	~~02~~	m3
6		16	~~02~~	lq

clds

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1902phae.proj.1772.

Re Jup. Sat. III.

C 13580 Oct 15, 1902

Useless. "Interferance by trees"

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1902phae.proj.1772.

Williams Variable

Measures 2, 4, 6 copied from Book 16, p. 141. —AE
" 3, 5, 7 " " " 15, p. 155. RWL

C 13586 Oct 18. 1901

1				
	//	25	58	d8
	//	35	58	e4
	//	45	58	d9
	//	55	58	e5
6	12	05	58	d8
	12	15	58	e8

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1902phae.proj.1772.

Williams Variable.

Even images copied from Book 16, p. 141 - AE
Odd " " " " 15, p. 155. RWL

C 13587 Oct 18. 1901.

1

12 45- 58 e1
12 55- 58 e4
13 05- 58 double
13 15- 58 e1
6 13 25- 58 e3

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1902phae.proj.1772.

Williams Variable

Even images from Book 16, p. 141 - 46
Odd " " " 15, p. 155 RWL

C 13588 Oct 18. 1901.

1	t		
	c		e3
	14	15 58	e4
4	14	25 58	e2
	14	35 58	e7

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1902phae.proj.1772.

Williams Variable

Even images from Book 16. p. 141. -AE
Odd " " " 15, p. 155 RWL

C 13589 Oct 18, 1901.

1			
	14	55	58 e4
	15	05	58 e6
	15	15	58 e5
	15	25	58 e6
6	15	35	58 e4

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1902phae.proj.1772.

Williams Variable

Even images copied from Book 16, p. 141 - AE
Odd " " " " 15, p. 156 RWL

C 13590 Oct 18, 1901.

1

	16	05	58 e5
	16	15	58 e8
	16	25	58 e5
	16	35	58 e9
6	16	45	58 not seen

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α Delphini

PLOTTED

C 13597 Oct. 21, 1901.

Even measures Copied from Bk 16, p. 2
Odd " " " " Bk 15, p. 2.

1		t		b8
	11	08	28/30	b9
				b9
	11	18	28/30	b7 c1
				b9
	11	28	28/30	b7
				b9
	11	38	28/30	b9
				b8
	11	48	28/30	b6
				b6
12	11	58	28/30	b6
				b6
	12	08	28/30	b7
				b5
	12	18	28/30	b7
				b6
	12	28	28/30	b6
				b6
	12	38	28/30	b5
				b6
22	12	48	28/30	b4
	12	$\sqrt{3}$	28/30	b5
24		c		b5
				b5

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Bellow 103 = $0^{s}.2$ slow

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PLOTTED

W. Delphini

C 13598 Oct. 21. 1901

even numbers Copies from BK 16, p. 7.
odd numbers copied from BK 15, p. 4

1		t			b6
	14	13	28/30	b2	
					b5
	14	23	28/30	b2	
					b6
	14	33	28/30	b4	
					b7
	14	43	28/30	b5	
					b6
	14	53	28/30	b3	
					b6
12	15	03	28/30	b4	
					b4
	15	13	28/30	b4	
					b6
	15	23	28/30	b4	
					b5
	15	33	28/30	b5	
					b6
	15	43	28/30	b3	
					b6
22	15	53	28/30	b5	
					b6
	16	03	28/30	a9	
	16	08	28/30	b5	
26		t			—

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Ballow 103 = 0.s2 slow

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Nova Persei

C 13599 Oct. 21. 1901.

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Nova Persei

C 13601 Oct 21. 1901

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Nova Persei

C 13602 Oct 21. 1901

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Occultation

C 13603 Oct 24. 1901

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Occultation

C 13604 Oct. 24, 1901

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Occultation

C 13605 Oct 24. 1901.

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Occultation

C 13606 Oct 24. 1901

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Occultation

C 13607 Oct 24. 1901.

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C 13608 Oct 25. 1901.

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C 13609 Oct 25. 1901.

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C 13610 Oct 25. 1901

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C 13614 Oct 25. 1901

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C 13615 Oct 25. 1901.

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1902phae.proj.1772.

Occultation of δ Piscium

13616 Oct 25. 1901

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1902phae.proj.1772.

Occultation of δ Piscium

C 13617 Oct. 25. 1901.

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1902phae.proj.1772.

+45° 3062

C 13624 Oct 28. 1901

No Signals

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1902phae.proj.1772.

Occultation of 60 Cancri

C 13636 Nov 2. 1901.

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1902phae.proj.1772.

Occultation of 60 Cancri

(1363) Nov. 2. 1901

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1902phae.proj.1772.

Ceraskis Variable

+45.3062

Even measures copied from Book 16, p. 166. - AF&
Odd " " " " 15, p. 181 RWL

C 13638 Nov. 3. 1901.

1	t			
	11	54	58	m 3
	12	04	58	m 3
	12	14	58	m 3
	12	24	58	m 2
6	12	34	58	l 5
	12	44	58	l 6
	12	54	58	l 0
	13	04	58	k 8
	13	14	58	h 9
	13	24	58	h 3
12	t			g 0

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1902phae.proj.1772.

+45. 3062

C 13639 Nov. 3. 1901.

Rejected

		t	
	15	35	59
	15	45	59
	15	55	59
	16	05	59
	16	15	59
	16	25	59
	16	35	59
	16	45	59
	16	55	59
	17	05	59
12	17	15	59
	17	25	59
14		t	

Ballow 103 = 0.8 fast.

Rejected. Times do not check.

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1902phae.proj.1772.

~~Eye measures copied from Book 16, p. 179. -ab.~~

W. Delphini

C 13642 Nov 4. 1901

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1902phae.proj.1772.

Nova Persei

C 13644 Nov. 9. 1901

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1902phae.proj.1772.

Nova Persei

C 13645 Nov. 9. 1901.

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1902phae.proj.1772.

U Cephei

C 13656 Nov 21. 1901

1 t

12 08 33

12 12 18 33

22 12 28 33

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1902phae.proj.1772.

C 13656 Nov 21. 1901

3z 12 38 33

4z 12 48 33

5z 12 58 33

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1902phae.proj.1772.

C 13656 Nov. 21, 1901

62 13 08 33

72 13 18 33

82 13 28 33

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1902phae.proj.1772.

C 13656 Nov. 21. 1901

92	13	38	33
	13	39	33
94	13	41	00
	13	42	33

102	13	48	33
	13	50	30
104	t		

Image 94 assumed to have had 2m exposure.

Ballon 103 = 2.7 slow

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1902phae.proj.1772.

+45.3062

C 13659 Nov. 22. 1901.

Double exposure on plate. Conflicting record and poor signals, make a combination hard to beat. I'll give it up.

Useless.

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1902phae.proj.1772.

+45.3062

C 13660 Nov. 22. 1902.

Images and record do not check.

Useless

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1902phae.proj.1772.

+45. 3062

C 13661 Nov. 22. 1901.

Clouds. — No images on plate.

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1902phae.proj.1772.

Occultation of 60 Cancri

C 13669 Nov. 30. 1901.

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1902phae.proj.1732.

U. Cephei

C 13670 Dec. 1. 1901

1	t		
	11	24	32
12	11	34	32
22	11	44	32

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1902phae.proj.1772.

C 13670 Dec. 1. 1902.

32 11 54 32

42 12 04 32

52 12 14 32

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1902phae.proj.172.

C 13670 Dec. 1. 1901.

12 22 32

61 t

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1902phae.proj.1772.

S. Cameri

C 13671 Dec. 1. 1901.

Useless

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1902phae.proj.1772.

S. Cancri

C 13672 Dec. 1. 1901

Useless.

Legends off their trolley

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

1902phae.proj.1772.

S. Cauer

C 13673 Dec. 1. 1901.

Usener.

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1902phae.proj.1772.

Williams Variable

C 13674 Dec. 2. 1901.

Useless. Cloudy and Squids working poorly.

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1902phae.proj.1772.

S. Cancri

C 13683 Dec. 10. 1901.

1

Segments working poorly making
marking decedly uncertain.
Useless

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1902phae.proj.1772.

S. Cameri

C 13684 Dec. 10, 1901

No good. Signals working poorly.

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1902phae.proj.1772.

Williams Variable

C 13688 Dec. 16. 1901

Useless

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1902phae.proj.1772.

W. Delphini

C 13692 Dec. 27. 1901.

1	t		
	11	03	30

12	11	13	30

22	11	23	30

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1902phae.proj.1772.

C 13692 Dec. 27. 1901

11 31 30

11 32 30

B2 11 33 30

41

double image & also double exposure

H2 11 49 30

52 11 59 30

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1902phae.proj.1772.

C 1369 Dec 27. 1901

62 12 09 30

72 12 19 30

82 12 29 30

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1902phae.proj.1772.

C 1369z Dec 27. 1901.

9z 12 39 30

10z 12 49 30

12 51 30

10s — t

The above times are probably within ± 5 minutes or so. The record is not very complete. Indly the signals are 1m when they should have been 5m so probably variable does not appear on the plate.

Ballon 0.3 slow

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1902phae.proj.1772.

Occultation of 60 Cancri

C 13693 Dec. 27. 1901

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1902phae.proj.1772.

Occultation of 60 Cancri

C 13694 Dec, 27. 1901.

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

1902phae.proj.1772.

U Coronae

C 13696 Dec. 27. 1901.

Signals working very poorly.
It is a waste of time to attempt to work it.

Useless

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1902phae.proj.1772.

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1902phae.proj.1772.

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

1992phae.proj.1772.

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

1902phae.proj.1772.

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

1902phae..prej.1772.

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

1992phae.proj..772.

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