

KG
11366
v. 731

Some
Circle Revolving
Capricious
Some Phonograph Books

Charles W. Sever, University Bookstore, Cambridge.

25-4 487 452
80 0 247 182

Mar 1871
 Star a S stroke L-1 S S+1

Polaris
 a Arctis

W. R. de
 S. M. de

o Aurigae 536 00 49 46 35 2 5.0 0.5

γ Aurigae 542 37 39 7 15 2 29.051 17.6 14.1

θ Draconis 544 13 10 45
 γ Draconis 548 15 7 23

Cast-4 wires — Ref.

δ Aurigae 548 59 54 16

θ Aurigae 5510 37 12 10

0 401 39.3

36 Camel 5 59 58 65 40 35 5 53 9 47 3 53 9 47 2 45.6 3 3.2

22 Camel 6 48 44 69 21

0 1 45.0 35.1 0 0 58.3 49.3

2 Lyrae 6 8 20 59 03

20 0 14.2 7.9 15 4 58.1 52.1 15 4 8.1 1.0

ψ Aurigae 6 152 49 21

0 2 12.3 6.8 0 1 51.7 45.7 0 1 18.4 11.5

Bar 30 2.7

Bar 65.0

Bar 31.8

Mar. 7 1871 N.H.K. obs. N.A.B. Rec.
 S. Lewis S. fol

3 Mus Maj

D.M. 11 16 16.9 + 9' 87 (1855)

7 Lev.

4 Lev.

5 2 412 417
5 3 349 367

5 2 412 412

15 3 500 535

45 2 404 460

25 3 523 593

Mar 9 1871

~~0 Mrs. May 8 1937 61° 8'~~ Pen failed
 22 Camel

~~Gr. 1450 8 24 35 38 27~~
 2 Lynx's

~~Gr. 1460 8 29 47 58 09~~
 7 Augur

Gr. 1450

Gr. 1460
 6 Hyd.
 10 Mrs May

Pen failed at middle wire
 Pen failed

36 Lynx's

38 11

40 11

1 Procyon No

Bar 30.13
 Alt 66.0
 Temp. 46.5

0 2 4,3 1 5 2,3-1 45,7 36,0 0 53,4 46,9

20 0 7,4 2,5-15 4 49,3 48,2-4 13,3 7,5

~~0 2~~

0 2 14,2 8,7-2 1,3 56,7-1 15,4 9,0

50 4 45,1 42,3-4 18,0/6,8

10 3 4,0 3,52-10 3 26,1 22,0-2 38,8 33,5

15 0 4,23 3,50-0 34,0 26,7

~~40 4 3,2-40 4 3,2 3 55,6~~

35 2 24,6 24,6-2 58,3 55,3-2 15,4 10,3

0 2 20,8 17,9-2 6,3-3,0

25 14,76 48,0-1 35,8 35,2-0 49,8 49,0

Mar 14/1871

51 Caphei lost 4 min

B. Lynce's

2 Draconis - 9^h 48^m 8.8

45 4 0.1 56.5-3 468 429-2106. 5-4

7841 March 19th

C	N	S	A	B
37.825-	33.478	36.6	38.6	42.6
37.834	33.450	37.2	38.6	42.0
37.817	33.443	37.1	39.0	41.8
37.818	33.438	37.0	38.8	41.7
37.820	33.420	37.4	39.0	41.8
114	229			
37.823	33.446			
33.446				
11.289				
35.634	C det at 35.634			

9 Draconis. H. all the wires

l Leonis 31° 5 3 52.3 54.4

8 Leonis 21° 5 3 54.8 56.5

W 325-82w last one of lat group 30 30 4 61.8 108

U Leonis 25 3 51.1 57.1

7 Lepus. 8p mid of four fold

B Leonis 7° 0 4 59.8 62.2

Bar 30.38 630 350 12h 8m

45- 19.6 50 -

10 4 30.3 27.1 - 4 22.5 18.3 - 3 38.2 34.1

~~55 0 30.3 28.4~~ - 55 0 30.3 28.4 50 4 45.0 44.2

10 3 34.7 30.0 3 26.1 21.3 2 42.5 38.3

10 1 5.3 1.3 10 0 24.2 28.5 -

11.11

Mar 25/87

i' Cancri

5-7 Cancri

J Leonis

✓ Serpens

P Leonis

X Draco. Cont 15" 3 wires

u Leonis

X Cygnus Sp.

B Leonis

Dr. 4163

Obs. ~~off~~ 109 intermingled with these

See record

Dr. M. = 29.0

~~0 - 4,00 110 - 3 548 570 -~~
~~5 - 4 100 110 - 3 548 570 - 2 355 367~~
 15 - 4 1,4 30 - 3 418 432

Mar 28/84

Set the Sun Clock exactly with the North Clock
at 5^h ^{P.M.} ~~20~~ ²¹ M.T. Observed for zones with S.C.
and W. Spring Governor. Compared the S.C.
and North Clock. 9^h ²⁰ ²¹ Mar 28 morning
and found S.C. slow 1.6. The losing rate therefore
of S.C. on N.C. = 2^s per day. Adjusted S.C.
for rate at 2^h ²⁹ ³⁰ S.T. setting S.C. 0.11^s fast of
N.C.

19 Lynx

Pi VII 67

a Gemini

Draconis II

a Hydrae

Obs of P. Licitor on new sheet. N.C. on

✓ *ful.*
all *bins*

Mar 28 Bar 30.03

Attn. 58.0

Exc. M 29.3

Per M. 42.4

50

1

43.2 - 40.7

35.4 54.0 46.9 - 4 42.2 40.2

10 2 15.3 13.0

E. G.

Mar. 29 1871

Polaris All wires

B. B. 1 47 34 + 20 11' Cont 4 Wires
 E. B. 1 45 13 63 23

at B. B.

Let S. B. run N. E. at 5^h 53^m S. T.

after having ~~been~~ regulated it so that it is
 supposed to run about .25^s per day fast-
 from this time until further notice it will
 not be further regulated. An examination
 of the sheets marked. Clock Comparisons
 Mar 29 it will be seen that S. B. is not prop-
 erly compensated.

1871 April 2^d

36 Lyncis 35° 3 5.1 0.3
40 " 25 1 38.0 37.2

2 Hydrae all the wires
North Clock 10^h 47^m

5 Leonis all the wires

5 Crat " " "

2 Draconis " " "

gr 4163 sp " " "

A		B		
6.5	8.3	10.3	11.1	C 35.608
6.5	8.2	10.1	11.0	D 16.400
6.8	8.2	9.8	10.8	
6.2	7.9	9.8	10.8	
6.7	8.1	9.7	10.9	

Bar 29.72 62° N 4.33° M 41.03

Apr 5-1871

Polaris

a Arctis

All the stars

fall in 2.5 degrees for 4 miles

26 Lyricis

Some pole star

20 0 24.7 18.2 - 25 44.7 45.6

— 30 0 24.7 18.2 - 25 44.7 45.6

Apr 6 1871

27 Lyons

(41.6 N.C. + P 44°)

Se. 41.7

W.H. 64.0

Bar. 29.97

11 35 19 69⁰27' = 3 Draco's

11 39 17 48 29 = 2 hrs May.

At the season of the sheet 23⁵ done

1871 April 8

y' Lyons all of the hours

in Cepheus s.p. " "

5 Lyons " "

5 Craters " "

2 Draco's " "

P 58.2 N.C. 48.2

Bar 29.97 71° at 45° N 04

25- 4 49.8 44.0 5 fall lost run

55 1 199 142 - 0 55.9 87.2 - 0 14.9 6.1
50 3 53.2 48.8 - 3 21.2 18.0 - 2 46.1 42.5

A		b	
36.3	37.8	45.1	45.7
36.2	37.8	45.0	45.8
36.0	37.7	45.2	45.6
36.8	38.0	44.7	45.2
36.6	38.1	44.9	45.8

The following pages are devoted
to notes on the zone work.

Nov. 13/1870

0^h 15^m 4^s + 50 41.3 = double

Nov. 16 1870

0 40 42 + 50 44.5 = close double

Nov. 17 1870

23^h 42 21 + 50 62.0 = not seen

0 17 58 + 50 61.8 = not seen sure

0 40 52 + 50 51 = double.

Nov. 27

23^h 42 21 + 50 62.0 not seen

0 17 58 + 61.8 not seen

0 40 42 50 44.5 = (comp 9.0) close double.

DEC 10-13

0 57 36 + 50 24.1 not seen^{sure} — not seen? # below.

1 3 57 + 50 50.8 not seen - not seen # below

1 9 44 + 50 15.8 not seen sure - not seen sure

DEC 10 + 13 1870

1 51 33 + 50 453 not seen sun - not seen sun

2 0 42 + 50 278 = double

DEC 26 - 31 - Jan 1

^{h m s}
1 53 38 + 50 ~~397~~ not seen

2 1 13 + 50 267 = close double (comp = 9.0)

2 13 57 + 50 471 not seen sun

2 31 34 + 50 637 Sp. mag. 8.5 (9.0 9.3)

^{h m s}
4 7 52 + 50 332 Re. mag (9.0) - (7.0 6.5)

4 13 34 + 50 288 close double, (comp 9.0) same A.R.

4 31 45 + 50 573 not seen - not seen

4 49 20 + 50 21 not seen sun - not seen sun

4 52 11 + 50 37 double (born 8.8) 4 A.R. = 4.5

DEC 15 - 22

4 13 34 + 50 288 close double

4 23 23 + 50 463 close double

4 31 45 + 50 573 not seen - not seen

4 49 20 + 50 21 not seen - not seen

Jan 10 - 17 1871

2ⁿ 24 29^s 51^s 44.1 Ex May. (6.5) (8.0)

2 57 40 + 51 51.3 Ex. May. (5.7) - (6.8 6.5)

3 33 59 + 51 53.3 Ex. May. (7.5) - (8.0 8.4)

Jan 17 - Feb. 7

4 45 51 + 51 6.4 not seen

5 40 42 + 51 28.6 Ex. May. (6.3) - (7.8 7.3)

5 54 16 + 51 34.7 Ex. May double, brighter for.

6 53 52 + 51 15.7 Ex May (8.7) - (8.8)

Feb. 11 - 20 - 21

4 45 07 + 51 22.7 Ex. May. (7.0) - (8.0 7.8)

4 46 08 + 51 53.5 double.

4 58 36 + 51 30.5 Ex. May (8.1) - (8.4)

5 24 18 + 51 53.3 not seen - not seen - not seen

5 36 37 + 51 2.5 not seen - not seen - not seen

5 50 02 + 51 2.9 Ex. May. (6.7) - (8.6 7.8 7.2)
Harry

Feb. 21-28 1871

6^h 57^m 42^s + 51° 33.3 not seen - not seen

Mar 1-5

8 59 53 + 51° 14.9 not seen - not seen

9 17 23 + 51 54.2 No May: (9.4) (9.7 10.0)

9 28 07 + 51° 10.9 No. May. (9.4) - (10.0)

Mar 2-5

6 14 14 + 51° 8.4 ac. May. (9.0) - (6.5-6.0)

7 4 30 + 51 1.0 " " (9.4) (9.8-9.7)

7 11 48 + 51 17.9 " " (9.0) (8.8 8.20 sum)

7 21 26 + 51 47.8 " " (8.8) (8.5-8.0)

7 36 44 + 51 5.7 not seen, not seen sum

Mar 7-9

6 18 2 + 50° 13.8 No May. (9.0) - (9.8 9.6)

6 25 51 + 50 - 1.6 " " (7.5) - (8.0 8.4)

6 32 00 50 45.7 " " (9.5) - (9.0 9.0)

Mar 7-9

6 39 33 + 50° - 9.9 Erc. May. (8.8) - (8.0 8.0)

6 54 19 + 50 7.8 double.

7 11 + 50 6.5 Erc. May (7.5) - (8.2 8.5)

7 2 12 + 50 32.0 " " (9.0) (8.5 sure)

7 12 24 + 50 23.5 double.

7 24 52 + 50 30.0 not seen not seen

7 32 50 + 50 27.3 Erc. May. (8.9) - (8.2) sure

7 36 08 + 50 14.3 " " (9.2) - (8.6 8.6)

7 42 38 + 50 -1.8 " " (7.5) (8.1 8.5)

7 53 42 + 50 19.7 " " (9.5) - (10.5 10.4)

7 57 30 + 50 16.2 " " (8.0) - (8.6 8.6)

8 6 31 + 50 9.1 double

Mar 22-25

9 0 55 + 50° 21.6 Erc. May. (7.7) (8.5 8.1)

9 13 43 + 50 -2.1 double

9 50 22 + 50 45.3 Erc May. (7.0) - (6.5 6.0)

9 56 28 + 50 49.7 not seen not seen

Mar 22-25 1871

7 58 11 + 50 50.7 No May. (9.2) (8.5-8.8)
 10 25 55 + 50 - 10.1 " " (7.0) - (7.6 8.6)
 10 32 06 + 50 16.6 " " (9.3) - (9.5 9.6)

Mar 14-28

7 439 + 52 45.6 ~~Close~~ & close double
 7 17 46 + 52 36.3 Suspected double (very close)
 8 1 00 52 30.1 No. May. (7.5) (6.5-6.8)
 8.8

Mar 29-Apr 5-

10 18 25 + 57 43.6 not seen
 10 25 57 + 51 - 1.4 not seen not seen
 10 26 39 57 - 1.1 " "
 10 28 58 50 19.3 No. May. (8.8) (9.4-9.5)
 10 52 19 50 - 4.4 Not seen

Apr 5-6

① 30 8 2 +52° 54.3

② 32 42 5-2 42.4

Se May (8.2) - (8.3 8.6)

III (8.2) (7.2 8.1)

850

760

540

72

713

