

KG
11366
v. 753

*Chronograph Record -
Longitude Campaign -
H. C. O. vs L. S. S. -
L. S. S. End -*

Séver, Francis, & Co., University Booksellers, Cambridge.

$\frac{17}{30}$

July 12

July 13 - H.G. obs - H.G. rec -
 Opened at 8.0 -
 Levelled up -

T Herculis -
 for time -

16 16 3 - middle wire -

Sit on η Draco + A Draco -
 mid-wire only, to adjust az.

Set in adjusted in az. on
 E Uis Min - using 10 wires -
 Found my ground broken by
 Closed workmen -
 at 10 - 0

Chio. Fr. 93451- at S-S-

July 14-

Chronograph at Obsy

Opened at 8-

marked
the minute (by — — — — —
15h 50^m Lamp W-

Level

35-	41-	81	
		70	
46	29-	<u>4/11</u>	<u>20</u>
		3.	+ .2

B Scyrii - A D E-

Prom. 2320. C D & E but
lost several wires.

Ill. - very poor.

Level-

45	34-	at 16.10
30	49-	83
		<u>75</u>
		8

 η Draco-

B & C —

2	5
<u>15</u>	<u>7</u>

Lamp-E —

A Draco E & D-

Lamp W-

B.A.C 5596-

569 3

570 6 - bad - ill poor-

576 3 -

Level - 4.5 96
34 53.3 78
44 43 - 18

5801 - over C probably -

5828.

5847.

Seale telegraphed that the
record was lost by Chronograph
Hatching badly -

Closed at 10.0 -

Sc

July 15-

Opened at 8.0 —

Rogers' Chronograph —

Chron - Ft 3451 —

16^h 24^m g rattle in —
immediately after it —

Lamp E —

Level —

40 41 -

41 40 - 0 -

ζ ophiuchi - E D C -

η Herculis E D C -

16.41 g rattle immediately
after it -

κ ophiuchi - E D C -

δ Herculis E D -

ε Urs Min - E 321 D -

Lamp W -
E Vis - Min F -

$$\begin{array}{r}
 \text{Level} \\
 \begin{array}{r}
 \text{W} \quad \text{E} \\
 41 \quad 45 \\
 \hline
 42 \quad 44 \\
 \hline
 83 \quad 87 \\
 \hline
 83 \\
 4 \overline{) 4} .07 - \\
 \underline{1}
 \end{array}
 \end{array}$$

1.
.07

Gratle after 17-20 after
Conversation -

B Draco - B -

Lamp E -

B Draco - C B -

W Draco - F. E -

X Lamp W -
X Draco - C -

X Lamp E -
X Draco - C B.

Inst - not well down after
reversal

Lamp E.
1st minute after conversa-
tion - 17.57 - marked with
G's -

B, A, C - 6109 - C.

6129 D

6162 D.

Level. 6178 D.

49 43.

39 53 -

6203 B.

Lamp N

6311 C.

6335 D

Level.

42 53.

47 - 48 -

101 3
89 3.8
12 .07
6364 D - .245

6390 -

2 stars. Pre. over C. fol on D.

3 sec diff in d.

6421 D

✓ 6452 D.

last minute followed by 9-
breaks - 18.56 —

Level —

$\begin{matrix} \text{yr} & \Sigma \\ 46 & 50 \end{matrix}$

44. 55

$$\begin{array}{r} 105 \\ 87 \\ \hline 418 \end{array}$$
 sec

$$\begin{array}{r} 4.5 \\ - .33 \end{array}$$

Closed at 11.30

July 17-

Opened at 8-0-

Fr- 3457- Russian Chro-
Level- Lamp W-

39 44 - $\frac{93}{73} - .33$
34 49 - $\frac{20}{5}$

~~B' Scorpii~~

~~5 Ophiuchi E 3454 Fr~~

1115
82
29.5
10-
- .47

35
47

61.5 at 16-22
50-

η Herculis CDE.

157.4 K Ophiuchi - CDE
- .50

δ Herculis CDE-

ϵ Urs Major D.

α Herculis CDE-

Level-

1225
92
30.5
- .50

5-1

56.5

41

66.

44 Ophiuchi - C-

B Draco B 6 D.

Level 5?

52.5

56.5

$$\begin{array}{r} 119.5 \\ + 98.5 \\ \hline 21.0 \\ 1575.3 \\ \hline - .35 \end{array}$$

46

63 -

W. Draco - B C -

Lamp E -

W Draco C B -

X' Draco - C B -

Level -

48.62

116.5
103.5
13.0

53.5 54.5

1573.22

V Draco - E D C -

ii' Sagitt - D -

δ Urs Min - E

Lamp W -

δ Urs Min D - E -

Lamps - Aquilae E D C -

δ Urs Min E D C

Level -

49 63.5

B Lyrae C B -

50 Draco - C B

Lamp IV

50 Draco - B.C -

Level - Lamp E -

48.5 65.

$$\begin{array}{r}
 57.5 \\
 106.0 \\
 \hline
 163.5 \\
 56.5 \\
 \hline
 121.5 \\
 106.0 \\
 \hline
 15.5 \\
 15 \overline{) 4.0} \\
 \underline{- 2.7}
 \end{array}$$

26.3
30.8
34.8

Transit, No. 5.

Personal Eq -

~~F~~ ~~E~~ ~~B~~ ~~S~~
~~H~~ ~~E~~ ~~C~~ ~~B~~
~~S~~ ~~E~~ ~~S~~ ~~B~~

5 Aquilae - S - S -

2 Vulpeculae - S - S -

K Aquilae - S - S -

B Sagittae - S - S -

Y Aquilae - S - S -

Q Aquilae - S - S -

B do - S - S -

Y Sagittae - S - S -

T Aquilae - S - S -

(not recorded)

Closed at 12.30 -

July 18-

Opened at 7.30.

Level - Lamp E.

555
68
17.5
17.4

36.0 40.5

32.0 45.0

30 L Serpentis D 321. C B-

E do B 21-

3 Urs Min. E.

E Cor Bor H - new sheet -

B' Scorpii D.

Groom 2320 - D

8 Ophiuchi - E.

T Herculis. D.?

η Draco. D.

A ~~B~~ Draco. B H

Lamp W - H -
A B Draco - ~~B~~ H -

Level -

980

830

150

3.8

.25

37.5

53.0

45.5

45.0

 η Herculis - D. κ Ophiuchi - D. δ Herculis - B. ϵ Urs. Min. - D.

Level

1020

830

19

475

32

44.5

48 -

38.5

54 -

 α Herculis - D.

Star taken - not in list -

44 Ophiuchi - D - rather after

 β Draco - B - $\uparrow$ BLamp ϵ - β Draco - B - $\uparrow$ B

Level -

15

.1

100.5

94.5

58.5

44.0

42.0

50.5

100.5

94.5

60

15

July 20.

adjusted Coll. by reversed
on lightning rod on
Stoughton.

adjusted azimuth.

July 20 - Lamp W.
Personal Eq -

B Ophiuchi - G - S.

B A C 6062. S - G.

V Ophiuchi - G (C) S - ϵ_{345} $\overline{F}$

68 Ophiuchi S - G.

D Herculis. G - S -

U Sagitt. D, ϵ_{345} $\overline{F}_2$ ϵ_{345}
false break before $\overline{F}_2$ -

η Serpens G S

B A C 6241 - G (D) S (F)

B A C 6300 S - G
long rattle before -
short rattle after S -

1 Aquilae G - rattle S -

L Lyra S - G.

110 Herculis - G - S -

July 20 -
Observations for time -

Lamp W.
50 Draco. C -

Lamp E.
50 Draco. B -

Level

$$\begin{array}{r} 1315 \\ 98.5 \\ \hline 33 \end{array}$$

$$+ 8.3 \\ + .55$$

$$\begin{array}{r} 60 \quad 55 \\ 71.5 \quad 43.5 \end{array}$$

2 Sagitt. D -

5 Draco - D.

Level -

$$\begin{array}{r} 127 \\ 105 \\ \hline 22 \end{array}$$

$$55$$

$$.37$$

$$\begin{array}{r} 72 \quad 44 \end{array}$$

$$\begin{array}{r} 55 \quad 61 \end{array}$$

Draco E -
moved up star after E -
Lamp W.

T Draco - E.

Star not bet. wires -

Level.

$$\begin{array}{r} 128 \\ 114 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 58 \quad 68 \\ 70 \quad 46 \end{array}$$

$$+ .23 \quad 35$$

Aquilae D-

~~50 D-~~

E Draco. D-

T Aquilae D-

Level.

$$\begin{array}{r} 129 \\ 105 \\ \hline 24 \\ 60 \end{array}$$

$$\begin{array}{r} 72 \quad 45 \\ 37 \quad 60 \end{array}$$

$$+ .40$$

L² Cap. D.

K Cygni D.

H Cap. E.

E Delphini. F

Groom. C-

Lamp E-

Groom B. ill poor.

$$\begin{array}{r} 51.97 \\ 48.43 \\ \hline 3.54 \\ 3.170 \\ 1.370 \\ 1.750 \\ 3.44 \end{array}$$

2 Cygni - D. ill-bad.

Level -

135	60	62.
<u>109</u>	75	47
26		

u Aquarii - B.

v Cygni D -

12 4. C. C₁₂ Bad - B -

61' Cygni D.

3 80 D.

80	46.
63	63

143

109

34

825.

+ .55

Closed at 1.30

July 21²¹ - Opened at
 Lamp E. 7 30.

49	40	1045
55.5	33.5	<u>73.5</u>
		4/31
		80
		E 53

Groom - 2320.

δ Ophiuchi - D -

τ Herculis - D - poor -

η Draco - D - D₅ late 1/2 sec

δ Draco - E - 2 breaks for E₃

Lamp W.

δ Draco. FI -

Level -

56	37
48.4	45.8

104
<u>82</u>
22
55
37

η Herculis - D -

κ Ophiuchi - D -

ϵ Urs Min E -

all but part of Scari's 3 Ophiuchi lost
 last 2 weeks by mistake.

2 Ophiuchi E.
Closed at 10.0 Cloudy.

$$\delta T = -16.50 \pm$$

16.5.60

16.6.16

16.5.44

July 22 -

Lamp rr -

Levelled up -

~~45~~	~~41~~
~~52~~	~~34~~

97
<u>75</u>
22
5.4
.36

Scaris
Ophiuchi lost all but
2 last wines.

Room 2320 D -

Level -

100	49	45
<u>89</u>		
11	40	55

- 275 - .18 T Hercules D -

 η Draco. D -A do D D₄ breaks mean.3 Ophiuchi F no rattle
before -

Level -

1035

41

585-

95.5

54.5

45-

8

-2.13

 η Herculis - D - κ Ophiuchi D - ϵ Urs Min - D -Lamp ϵ - ϵ Urs Min - B - $B_1, B_2 + 5$ 2 buaks each -
means - α Herculis - C -

Level -

112.5

66.

46.5

46.5

66.

44 Ophiuchi D -

B Draco D -

2 Ophiuchi D -

W Draco. D -

μ Herculis - D -

χ' Draco - D -

star of Searles, probably BAC
lost. (adjusting stiletto -

γ ~~Urs~~ ~~Draco~~ D -

Level -

52 66 - 115

69 49 - 121

μ' Sagitt - ϵ - 46

1.5

+ .1

Level -

68 52 -

50 69

121
116
3.75
- .05

adjusted azimuth
on δ Urs min -

δ Urs min - ϵ - ϵ_4 late -
2 breaks on ϵ_5

1 Aquilae D, no opening
rather -

Level -

126
115011
2.75
.18

49.5

65.5

71 -

55 -

July 22.

Lamp M.

Personal Eq-

ε Aquilae 9-8.

9 20 5 1/2.

7 20 9-8.

BAC~~ae~~ 5 only -

δ Sagitt. 5 1/2.

θ Lyrae. 4-5 1/2 -

δ Aquilae 5-4.

4 Cygnus. 9-8.

Lab-3695. 5. 1/2. 1/2 -

Closed at 11.30

