KG
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118

C. 13.

Chronographic Record

1864 Nov 10th — 1865 Sept. 12.

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1864pnae.proj..118S

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Tn

1864 Nov 19 M. East.

E6 20 14 0

ρ Capricorni 2.3.4.5
A Ursae maj 4p 2.3.4.5

20 27 0
20 29 0
Cephei 46 B
κ Delphini
κ Cygni
6 Ursae maj Sp

7.9 20 47 47.9 +1° 16.2 P. XX 372 + 1° 4393
9.0 20 49 9.4 +1 14.8 4396
7.7 20 49 25.9 +1 11.0 P. XX 388 4397
E6 20 52 0
New Sheet No. 2.
7.2 20 56 21.7 +2 29.7 +2° 4295
7.5 57 23.6 2 21.5 P. XX.448. +2 4297
E6 21 0 0
61 Cygni fo
foll
8.5 21 7 32.1 +1 3.8 +1° 4450
8.5 21 10 31.0 +2 58.7 1.2.3.4 Clouds +2 4332
8.0 21 14 26.6 +1 26.0 +1 4465 8.0
1 Draconis H.p Ari 26
8.5 21 27 59.5 +0 31.3 +0 4332
8.2 21 22 56.3 +1 49.7 +1 4489
β Aquarii
7.3 21 28 0.4 +0 20.0 P. XXI.192. +0 4750
A.M. begins

γ Capricorni
ε Pegasi
16 Pegasi
ξ Cephei.

θ Aquarii (not good)
γ Aquarii
ο Aquarii

η Aquarii
ζ Pegasi 4th or later
η Pegasi
δ Aquarii
α Pisc Aust

1864 Nov. 10 ant. W. E.

α Urs Majoris faint on last wire clouds
α Pegasi
γ Piscium
ψ' Aquarii
κ Piscium
J 145 reseemes
20 Camelop B gr 3.4.5 Ari 2a.
Ec 23 25 0
New Sheet No. 3

39 Cephei H 2345 Ari 2a.
Ec 23 32 0

	ι Piscium			
8.2	23 39 11.5	+2°40'.8	+2°4709	19 Piscium
	(δ Sculptoris)			
8.3	23 42 36.6	+2 3.8	+2°4723	
8.5	43 42.2	1 25.9	+1 4786	Pi XXIII 206
6.5	44 33.3	2 7.8	+2 4725	22 Piscium
7.2	45 39.3	+ 16.1	+1 4792	25 —
8.0	48 9.7	2 42.6	+2 4731	
8.5	48 34.0	2 44.1	+2 4732	
9.0	49 1.0	2 46.9	+2 4733	
	α Piscium			
	2 Ceti			
	κ Andromedae			
7.9	0 2 2.4	+0 26.1	+0° 8	
7.5	0 9 14.1	+1 3.0	+1° 28	4 Mayeri
7.0	0 10 21.0	+0 53.0	+0 28	5 —
7.8	0 12 35.9	+0 21.0	+0 37	
~~7.5~~	0 13 17.9	+2 39.2	+2° 38	
7.7	0 16 11.2	+1 56.1	+1 52	
8.5	0 17 8.1	+2 34.4	+2° 46	
9.2	0 17 54.5	+1 7.7	+1 57	44 Piscium
8.3	0 18 31.4	+1 8.3	+1 60	
7.7	0 19 55.4	+2 0.4	+2° 54	10 Mayeri
	12 Ceti			
	ζ Cassiopeiae			
8.5	0 31 0.2	0 29.2	+0°.94	
8.5	0 32 22.5	0 13.6	+0.98	
8.0	0 34 37.5	0 14.	+0.106	
	ζ Ceti			
7.7	0 37 27.7	2 24.3	+2° 97	
	δ Piscium			

/ Next page

1864 Nov. 10 cont. [illegible] E.

Moon I.
μ Andromedae
43 Cephei H. 2.3.4.5 Au 2a.
Polaris Au 2a.
* pr Clytia 53 Mayeri D
* fw Clytia D
* pr Clytia D 2.3.4.5
68 Mayeri = Ⅱ 223 D
α Arietis
α Draconis sp
EC 2 3 0
New Sheet No 4
EC 2 8 0
67 Ceti
Mira Ceti
* foll Mira 3.4.5
ξ² Ceti D
ε —
γ —

EC 2 41 0

M.S. 70
Nal 17

1864 Nov 11th [illegible]

EC 21 0 0
61 Cygni pr
— foll
ξ —
1 Draconis H 1.2.4.5 Au 2a.
β Aquarii
A.M. Pegasi
ε Pegasi
16 Pegasi
α Aquarii
ι Pegasi
ζ Cephei two for first wire
θ Aquarii
γ Aquarii
~~[illegible]~~ σ Aquarii
[illegible] Aquarii Bolector 19³ Canal B
ζ Pegasi } atmosphere not good
η Pegasi
EC 22h 42m 0s
New Sheet No 7

1864pmae.proj...118S

EC 22^h 45^m 0^s

34 Cephei H
α Pisc Aust   short signal star above wire
α Urs Maj   SP false obs after last wire
α Pegasi 5^{th} too soon
γ Piscium
θ^1 Piscium
207 Camel B   sp ns 1^{st} lost
34 Cephei H 3^d wire either too late or early
ι Piscium
Star called δ Sculptoris
γ Urs Min   SP 1^{st} late] ns   bad im
α Piscium

EC 23^h 54^m 0^s

Apr. ends
begins observing in West wing

EC 1 11 0   L.H.S. again
Polaris 3.4.5 Ari 2.6
214 Camel B sp   "
η Piscium
υ Persei
ν Piscium.
ζ Ceti
* prec. χ Ceti
χ Ceti
☾ I
β Arietis
γ Andromedae
α Arietis
λ Draconis sp 2.3.4.5
ξ^1 Ceti
Pi II. 28
67 Ceti
Pi II 52 = Arg + 1°.410 5.8^{mg}
ο Ceti 9^m
ι Cassiopeiae
ξ^2 Ceti

EC 2 24 0
New Sheet No. 3
α ? ? ?
Polaris sp
EC 1^h 17 0
24 13 42 0
[illegible]

Tm

1864 Nov. 14 Mu. East.

E6 21 53 0

ν Aquarii					
8.5	21 59 7.2	+1° 9.'8	Aq	+1°.4583	
8.5	22 0 12.2	1 13.0		1 4595	
9.3	0 28.7	1 13.6	faint	1 4599	insert
γ Aquarii					
9.0	22 17 56.2	1 37.6	faint.	1 4606	insert
9.0	18 31.7	1 45.3	faint.	1 4608	insert
σ Aquarii					
7.7	22 25 1.2	1 50.6		1 4623	
8.0	26 22.5	1 7.3		1 4626	
η Aquarii					
193 Camelop B. ηp			Ari 2^{b}.		
ζ Pegasi					
7.5	22 35 35.0	+0 27.1		+0°.4912	
7.8	38 4.9	+0 39.6		+0 4921	
~~[illegible]~~	~~[illegible]~~	~~+0 34.9~~			
ξ Pegasi					
8.5	22 40 41.2	0 34.9	faint	+0 4926	
δ Aquarii					
α Piscis australis					
6.8	22 53 21.7	2 14.2		+2 4578	
7.5	54 22.7	2 45.9		4597	
8.5	56 22.3	1 49.8		1 4675	
α Pegasi					
8.2	22 59 40.7	2 16.6		2 4609	
9.0	23 0 52.0	1 12.0		1 4684	insert
8.0	1 16.9	1 19.0		4686	
8.0	1 59.4	1 22.0		4687	
8.5	14 19.3	2 17.0		2 4654	
b¹ Aquarii					
7.7	16 52.9	2 54.4		2 4663	
9.0	17 10.0	2 55.6	faint	4664	
202 Camel B. ηp			Ari Z^{a}		
39 Apuett			Ari Z^{a}.		
ι Piscium					
6.2	23 39 0.5	2 40.8		2 [illegible]	
* called δ Sculptoris					
8.3	23 42 36.6	2 3.8		2 4723	
7 ~~8.0~~	43 29.4	~~2 7.9~~		4724	
6.5	44 33.3	2 7.8		4725	
7.2	45 39.2	1 16.1		1 4792	
8.0	48 9.7	2 42.6		2 4737	
8.5	49 20.0	2 56.1	~~[illegible]~~	4734	

m
1864 Nov 14 M East ant.

43 8.5 23 44 20.0 2 56.1 Arg + 2″.4734
44 8.5 50 57.3 2 45.2 4.739
45 α Piscium 3.4.5.
2^r Ceti
α Andromedae
Cl 0 4 0
New Sheet No 2.
" 0 6 0 (Second missed)
ψ Pegasi
Cl 0 9 0
α Phoenicis
50 12 Ceti
β ———
Arg
... 0 37 38.7 +1 9.3 + 1.131 1.338
8.5 0 39 20.5 0 46.0 0.118 N.
δ Piscium
Polaris Ari 2^b
214 Camelop 2.3.4.5.
η Piscium
γ ———
τ Ceti
60 ✱ prec χ Ceti
χ Ceti
β Arietis
α Piscium folg.
α Arietis
65 67 Ceti
Cl 2 13 0
Cl 13 4 0
Polaris^sc Ari 2^a
" 13 18 0
End of Sheet
m
1864 Nov 15 M East.

Cl . . . .
Polaris sp Ari 2^a
Cl 13 21 0

91 10
39 11
66 14
48 16
67 19

1864 Nov. 16th Ill. East,

EC 18 30 0
α Lyrae
, 18 36 0

EC 18 59 0
ζ Aquilae
" 19 1 0

EC 19 18 0
δ Aquilae
β Cygni
" 19 28 0

EC 19 39 0
γ Aquilae
" 19 42 0

EC 21 16 0
1 Draconis Hyp Ari Z.a b
119 Cephei B Ari Z.
Gr. 1564 sq.
ε Capricorni

Avg					
0.4765	8.5	21 33 44.2	+0 39.8	P.	
0.4770	5.8	21 34 48.0	0 36.0	P.	
0.4768	8.8	21 44 12.2	0 10.4		rather faint
0.4790	8.5	44 48.2	0 44.9		2.3.4.5 rejected Z. left in zone
1.4583	8.5	21 59 7.2	1 9.8		

α Aquarii (above last row)

ε Pegasi
EC 22h 15m 0s

Zone EC 22 25 0s Ther +30°

" EC 0 10 0.

EC 0 24 0
12 Ceti 4th w. too soon. A.M.
ξ Capricorni
β Ceti
δ Piscium

A.M.
A.M.
A.M.
A.M.

/ Over

W

1864 Nov. 16 ML East.

μ Andromedae AM
ε Piscium A.M 2d w. doubtful

Cl. 0 58 0

Cl. 1 0 0
β Andromedae A.M
Polaris Ari 2d JHS
Reject last tk. of wire 1.
θ Ceti JHS
214 Camel Brp Ari 2^a JHS
η Piscium JHS
υ Persei JHS
ν Piscium JHS.

α Piscium AM
α Arietis "
67 Ceti "
ι Cassiopeae "
ξ² Ceti ~~37 0~~ "
36 Cassiopeae H.
gr 527 "
ξ Ceti

EC 2^h 37^m 0 filled pen "
EC 2^h 39^m 0 AM
γ Eridani
ε Arietis "
α Ceti "
β Persei "
δ Arietis
12 a Eridani ns first wire bad
ζ Eridani AM
σ Tauri 3d & 5th late
57 Urs Min B 1st lost
ε Eridani AM
EC 3^h 30^m 0^s

Th

1864 Nov. 19 Ill. East

Ec 18 30 0
α Lyrae
" 18 35 0

18 59 0
ζ Aquilae
19 1 0

19 7 0
δ Aquilae
21 0

Ec ..Ig......
α Aquilae
β
γ Sagittae
19 56 0

Ec 20 44 0

7.0 20 47 47.9 +1° 16.2 P
7.7 49 25.9 1 11.0 P
8.0 54 21.8 2 21.8
8.2 56 51.7 2 25.7
7.5 57 23.6 2 21.5

Argelander
+1°.4393
1.4397
2.4294
2.4295
2.4297

61 Cygni pr.
foll.

1 Draconis Hopp

Ec 21 20 0

" 21 23 0 Ext Th 36°.5

Zone

" 22 43 0 " " 34.3

Ec

δ Aquarii
34 Cephei 4.5 An 2a
α Piscis austrini

6.8 22 53 51.7 2 14.2
7.5 54 23.7 2 45.0
8.5 56 22.3 1 49.8 Magnitude 8.8

α Pegasi

Ec 23 0 0

E C

EC $23^h\ 17^m\ 0^s$

κ Piscium AM
207 Camel B SP ns 1st wire lost
39 Cephei H "
ι Piscium good
Pisc Aust "
γ Urs Maj SP
a Piscium
2 Ceti "
a Andromedae
γ Pegasi "
a Phoenicis
12 Ceti 2d wire too soon "
EC $0^h\ 26^m$ 0
Observe in west wing AM

EC $1^h\ 43^m$ 0 AM
3 Arietis
~~a Draconis~~ "
50 Cassiopeae
a Piscium "
a Arietis short signal
Gr 2099 (false break before mid wire
and after last wire) "
ι Cassiopeae
ξ² Ceti "
36 Cassiopeae H
Gr 527
ε Ceti
γ Ceti AM
EC $2^h\ 38^m\ 0^s$
TH S begins again
New Sheet No. 3
EC 2 41 0
41 Arietis
8.5 2 42 50.4 +1° 50.′7 +1°.497
7.5 2 43 51.1 1 35.′3 1.503
Pi. XIV. 217 sq
η Eridani
ξ Arietis
δ Ceti

next page

♄

1864 Nov. 19 continued (EC East.)

6.5 2 57 9.8 +1°19'.0 $+1^{s}534$
β Persei
δ Arietis
12 Eridani
8.5 3 7 5.9 + 2 14.3 +2.502
4 pd ζ Eridani
ζ Eridani +2.518
5.3 3 11 46.3 +2 50.9
α Persei
8.3 3 15 47.9 +2 19.6 +2.534
α Tauri
323 Cephei 13 Ari 2^{a}
EC 3 35 0

W

1864 Nov. 20 EC was set 2^{m} back.

Sf

1864 Nov 21
EC 14 3 0
α Bootis – Clouds coming 1
10 0

1864 Nov. 22d

EC 19 35 0
γ Aquilae 2.3.4.5 2
α 3
EC 19 54 0

EC 21h 41m 0s Th. 39°.2
Short Zone -256 -
EC 22 27 0
EC 22 38 0
δ Aquarii 4
α Piscis australis 5
α Pegasi 6
EC 22 59 0
EC 23 1 0 Ext Ther. 36°.5
Zone 257
" 0 44 0 —— 34.0

1864 Nov. 23.

8.0 22h 3m 05s) Therm +38°3

Zone

Ec 23 52 0

	E 23 57 0			Arg
8.0	0 3 13.8	+1 29.1		+1° 10
	γ Pegasi			
7.2	0 7 10.9	0 29.7		0. 22
8.4	0 8 25.0	1 53.6		1. 25
8.5	0 9 35.8	1 33.2		1. 30
7.5	0 10 42.8	2 59.1		2. 32
8.0	0 12 44.3	2 14.5		2. 37
7.7	0 16 11.2	1 56.1		1. 52
8.5	0 17 8.1	2 34.4		2. 46
6.2	0 17 58.5	1 7.7	3.4.5 wires	1.57
8.3	0 18 31.4	1 8.3		1.60
7.7	0 19 55.4	2 0.4		2.64
	12 Ceti			
8.3	0 24 29.0	0 43.1	Arg.	0.70
8.3	0 26 57.5	0 12.5		77
	ζ Cassiopejae			
8.5	0 31 0.2	0 29.2		0.94
8.5	0 32 22.5	0 13.6		0.98
8.0	0 34 37.5	0 14.3		0.106
	β Ceti			
8.2	0 37 38.7	1 0.3		1.131
8.5	0 39 21.5	1 33.0		1.137
	δ Piscium			
	μ Andromedae			
	43 Cephei H Au 3			
	ε Piscium			
7.3	0 57 07.0	+1 32.4		1.203
8.5	58 16.5	1 41.4		1.205
8.5	1 01 45.0	1 44.7		1.217
6.0	1 3 10.0	1 39.4		1.221
6.8	1 5 5.9	1 41.6		1.223
7.7	1 7 15.8	8 58.2	Stars near path of Clytia	
7.0	1 8 12.4	9 0.9		
	θ Ceti			
	264 Camel B.A.			
7.5	1 24 3.	+1 [illegible] 9.5	Star pr. Clytia	
	2 Persei			

1864 Nov 23d M.E. cont.

a Piscium — — AM
45 a Arietis AM
67 Ceti AM
l Cassiopeae AM
ξ² Ceti AM
36 Cassiopeae AM
EC 2h 24m 0s New Sheet No 2,
EC 2h 30m 0s
50 ε Ceti 182 too late AM
γ Ceti reject 1st ns AM observed below middle of field
41 Arietis AM
P XIV 217 .SP AM
η Eridani
55 α Ceti ns observed above middle of field
M.K.S. begins again
β Persei
EC 3 1 0
1 0
* pr ζ Eridani
ξ Eridani
ο Tauri
60 ψ Ursae minoris Ip
ε Eridani
8.3 3 37 7.6 0 11.6 Avg. 0".608
b Tauri H
[illegible] 3 31 23.4 + 2 17.0 Avg + 2.577
δ Persei

66 δ Eridani 11.
6.0 3 37 [illegible]5 +1 30.4 1.656
η Tauri
8.3 3 40 37.9 + 2 18.9 faint 2.608
8.3 3 42 4.9 + 0 56.2 0.659
71 8.6 3 42 46.4 0 58.5 0.661
7.0 3 43 15.1 1 7.3 1.667
δ Persei
74 γ Eridani 3w
EC 3 53
1864 Nov 24th M. East. cont.
EC 19 38 0
ν Aquilae
α
76
77 EC 6 16 53 0 Lower

1864 Nov. 25th HME cont

1 Draconis H sp 2.3.6' Ai 2a

7.3 21 20 53.7 +2 33.6

8.2 22 54.3 1 49.7

80

β Aquarii

7.7 21 27 20.6 1 11.8

Gr 1564 sp

γ Capricorni E C 21 34 0

7.7 21 37 28.7 2 19.8 3.4.5

85

δ Capricorni

2 Ultra mag sp

8.8 21 44 12.2 +0 10.4

8.3 21 50 28.3 −0 4.9

E C 21 51 0

New Sheet No. 2

E C 21 53 0

8.0 21 55 47.8 +2 28.6

90

ι Aquarii

8.5 21 59 7.2 +1 9.8

c Pegasi

8.3 22 1 35.3 +2 22.7

θ Aquarii

E C 22 23 0

E C 22 44 0 Ther +32.0

Zone

0 20 0

E C 0 26 0.

95

ζ Cassiopeiae

7.5 0 31 39.5 +2 19.0

8.3 0 32 57.5 +0 21.2

8.0 0 34 37.5 0 14.3

β Ceti

100 8.2 0 37 38.7 1 0.3

8.5 39 21.5 1 33.0

δ Piscium

7.3 0 43 37.6 1 57.0

8.5 46 11.9 1 7.0

105 7.9 47 36.0 0 0.4

μ Andromedae

7.8 50 16.5 1 18.2

7.5 52 40.7 1 50.6

8.5 53 24.2 1 48.5

1864 Nov. 25 Tr Du East. cont.

110 8.0 a 54 31.0 +1 44.7
7.3 57 17.0 1 32.4
8.5 58 16.5 1 41.4
8.5 1 1 45.0 1 46.7

Polaris Air Z. far TWS sends here for the present.

115 2d Camel B opp Pole Star ns 1st & 2d lost AM

η Piscium " ns 1st & 2d lost AM
ν Piscii ns AM
ν Piscium AM
τ Ceti AM
120 ~~214~~ χ Ceti AM
218 Camel B SP short signal AM
α Piscium foll AM
α Arietis AM
67 Ceti AM
125 ι Cassiopeiae "
ξ² Ceti "
ε Ceti "
γ Ceti "
41 Arietis 2d or [illegible] "
130 ρ × 14 217 SP "
η Eridani "
ε Arietis "
EC 2h 56 0
EC 3h 2m 0
ζ Eridani AM
α Persei "
ο Tauri "
γ Urs Min "
ε Eridani "
δ Persei – δ Eridani "
η Tauri "
140 ζ Urs Min (double signal) "
γ Eridani "
Gr 750 "
ο¹ Eridani "
δ Tauri
145 ε Tauri AM
EC 4h 22m 0

146 Polaris 2d
E 13 23 0

Tu
1864 Nov. 29 Partially Cloudy

EC 21 18 0
β Aquarii
El 21 40 0

EC 21 55 0
α Aquarii 4.5
EC 22 2 0.
EC 22. --
θ Aquarii
El. 22 16 0

EC 22 46 0
150 δ Aquarii
α Piscis austrini
EC 22 52 0

EC 23 12 0
δ' Aquarii
γ Piscium
(24) Piscium
39 Cephei H wire 2. Star rather faint
ι Piscium
★ called ι Sculptoris 3.4.
EC 23 42 0

EC $23^h\ 57^m\ 0^s$
α Andromedae AM
γ Pegasi AM
160 δ Urs Min β — {1st wire bad false break before / 3d after too faint to be observed}
ζ Cassiopeae false break before first wire AM
α Cassiopeae
β Ceti faint reject 2d 3d & 4th lost AM
δ Piscium AM
ε Urs Maj very faint reject all but first & last
ε Piscium AM
β Andromedae AM
α Urs Min AM
η Piscium AM
EC $1^h\ 25^m\ 0^s$
Cloudy

1864 Nov 30th

EC 22^h 41^m 0 N°1

170 16 Pegasi — — — — — AM
α Aquarii "
c Pegasi — — — — "
ζ Cephei — — — — — "
θ Aquarii — — — — "
γ Aquarii "
σ Aquarii
η Aquarii "
ζ Pegasi "
η Pegasi "
180 ζ Pegasi lost? wire broken "
δ Aquarii
α Pisc Aust "
β Piscium
α Pegasi "
EC 22^h 59^m 0^s AM

EC 23^h 32^m 0^s AM
Pisc Aust 1.2.3 clouds reject 4th (lost 5th)
ω Piscium 1st too late AM
α Andromedae — — — "
γ Pegasi
5 Urs Min B { signal close on 1st wire (lost break 1st wire) reject break before fourth }
190 α Phœnicis AM
12 Ceti - Reject 5th wire
ζ Cassiopeae
α Cassiopeae
β Ceti
0^h 37^m 0^s AM
0^h 40^m 2^s N°2 AM
δ Piscium observed above middle "
ε Urs Maj sp — "
43 Ceph H 3 4 5 "
ε Piscium
β Andromedae "
200 α Urs Min
θ Ceti ms 1 lost reject last b. of last wire

η Piscium 2d lost AM
ν Persei

1864 Nov 30th

γ Piscium AMa
χ Ceti "
β Arietis 2d too soon "
α Piscium foll "
α Arietis no last wire "
67 Ceti "
210 ο Ceti ! very faint foll of two. 1. 2 w only "
ι Cassiopeiae last wire too soon
ξ² Ceti "
36 Cassiopeiae H
Gr 527 "
ε Ceti
γ Ceti "
41 Arietis "
Pi XIV 217 SP "
η Eridani
220 ε Arietis "
α Ceti
β Persei "
δ Arietis
ζ Eridani AM
EC 3h 10m 03

1864 Dec 1. ♃ THS

C	19 41 0 Cloudy		
Ec	......		
Ec	21		
	δ Capricorni		
Ec	21 49 0		
8.3	21 50 28.3	−0° 4.9	
7.0	55 47.8	+2 28.6	
	α Aquarii		
8.5	21 59 7.2	+1 9.8	
	o Pegasi		
8.3	22 1 35.3	+2 22.7	
7.5	4 56.0	2 0.9	
8.1	6 25.4	0 9.5	
8.5	8 12.2	1 13.0	
	θ Aquarii		
8.5	22 11 6.1	0 8.5	
	γ Aquarii		
	37 Pegasi	2.3.4.5	
8.1	22 25 9.2	+0 50.2	
8.5	26 58.6	2 59.1	
	η Aquarii		
	193 Camel 13	2.3.4.5	Air 2ª
7.8	22 32 26.4	+2 29.6	
	ζ Pegasi		
7.5	22 35 35.0	+0 27.1	
7.8	38 0.9	+0 59.6	
8.5	40 41.2	+0 34.9	
6.5	45 12.4	+2 47.4	2.3.4.5 rej 2.
	δ Aquarii		
	α Piscis australis		
6.0	22 52 2.7	+0 11.7	
6.8	53 21.7	2 14.2	
7.5	54 23.7	2 45.9	
8.5	56 22.3	1 49.8	
	α Pegasi		
8.5	23 3 48.2	+2 22.5	
8.7	4 52.9	1 14.4	
8.0	6 16.3	1 24.2	
8.5	14 19.3	2 17.0	
7.8	15 31.0	2 1.7	
7.7	16 52.9	2 54.4	
9.0	17 10.2	2 55.6	

1864 Dec 1st continued

κ Piscium
7.2 23 19 49.7 +0 18.7
20 x Cancri B ap.
EC 23 29 0
EC ---- ----
ι Piscium
EC 23 35 0
[δ Sculptoris]
43 Radcl. 6202
30 Capricorni B Ari Z^a.
4 Pegasi
EC 0 7 0
EC 0 9 0
Zone attempted – Abandoned in large part.
EC 1 9 0
~~EC 1^h 15^m 0^s~~

1864 Dec 5th

EC 23^h 37^m 0^s
a Piscium — — AM
2 Ceti ns "
a Andromedae "
50 γ Pegasi "
ζ Cassiopeae "
a Cassiopeae bad
β Ceti very faint (where there is a double break for last two stars take the last)
δ Piscium ns very faint somewires bad!
EC 0^h 55^m 0
EC 1^h 3^m 0^s
55 a Urs Min Star faint on first wire reject first break of 4th wire
EC 1^h 17^m 0^s

Tm

1864 Dec 8

EC 19 41 0
α Aquilae
" 19 45 9

EC 20 15 0
γ Cygni
" 20 18 0

EC 20 35 0
α Cygni
" 20 42 0

EC 21 5 0
ξ Cygni
EC 21 8 0 (oiled clamp to axis – AM)

EC $21^h 22^m 0^s$
60 + β Aquarii AM
β Cephei accidental break before one of wires AM
δ Capricorni "
+ 16 Pegasi "
+ α Aquarii "
ζ Cephei "
+ θ Aquarii "
γ Aquarii "
+ η Aquarii "
η Pegasi "
70 ξ Pegasi "
ζ
δ Aquarii "
34 Cephei H m last wire only "
+ α Pisc-Aust "
β Piscium "
+ α Pegasi
~~o Aquarii~~ γ Piscium
EC $23^h 11^m 0$

EC 23 49 0
ω Piscium A.M.
ζ Ceti T.H.S T.H.S begins
[illegible] Andromedae

80	7.9	0	2	2.4	+0	21.1	
	8.0	0	3	13.8	+1	29.1	

γ Pegasi

over

1864 Dec 8th continued 2nd E. THS

83 7.2 0 7 10.9 +0 29.7
8.4 8 25.0 1 53.6
8.5 9 35.8 1 33.2
7.5 10 42.8 2 59.1
8.0 12 44.3 2 14.5
7.7 16 11.2 1 56.1
8.5 17 8.1 2 34.4 3.4.5 faint rej 5
90 6.2 17 58.5 1 7.7
~~α~~ α Phoenicis
8.3 26 57.5 0 12.5 faint
Bradley 48 Air 2d.
7.5 31 39.5 2 19.0
8.0 34 37.5 0 14.3 1.2.3
8.3 34 44.0 0 15.7 3.4.5
8.2 37 38.7 1 0.3
43 Cephei H, Air 2d. clouds. Violent Wind
7.3 57 17.0 1 32.4
... 8.5 58 16.5 1 41.4 3.4.5 faint
✓ 8.5 1 1 45.0 1 46.7
6.0 3 10.0 1 39.4
6.8 5 5.9 1 41.6
More clouds.

The seeing grows very bad.

θ Ceti: through an opening in the clouds.
η Piscium 3.4.5.
υ Persei
γ Piscium
τ Ceti
7.3 1 38 26.1 +2 40.4 3.4.5 faint
8.0 39 54.5 0 5.1 faint
6.5 40 56.1 2 56.9
χ Ceti
β Arietis
6.2 1 48 23.9 +1 7.5
6.5 1 52 36.9 +2 24.1
+ preced α Piscium 6' N
α Piscium
+ foll & the on parallel

α Arietis,
7.2 2 7 44.0 +0 3.0
120 67 Ceti
2 14 0
E

Seeing not getting any better

Th
1864 Dec 9 W Vert.

C 21 45 0
121 16 Pegasi 4.5
o Aquarii
ζ Pegasi
~~ζ 7.2 22 1 47.5 + 2 1.4 P~~
7.2 22 1 47.5 + 2 1.4 P.
7.5 4 56.0 2 0.9
8.5 8 12.2 1 13.0
8.5 11 6.1 0 8.5
4 Aquarii
4.5 17 53.1 0 38.3
130 σ Aquarii
7.7 25 1.2 1 50.6
8.5 26 58.0 2 59.1 faint
η Aquarii
143 Camel Bessp Ari Z 6
7.8 22 32 26.4 2 29.6 f rej 5.
ξ Pegasi
8.0 38 1.5 2 55.7
8.3 38 15.5 2 57.7 2.3.4.5
ξ Pegasi
140 34 Cephei H Ari Z 4
α Piscis austrini
6.8 22 53 21.7 + 2 14.2 P
7.5 54 23.7 2 45.9 b.
8.5 56 30.7 2 2.8
α Pegasi
8.2 22 59 40.7 2 16.6
6.0 23 1 16.9 1 19.0 P
8.0 1 59.4 1 22.0 P
8.5 3 48.2 2 22.5
150 8.7 4 52.9 1 14.4 P ?
1 58
7.7 8 13.6 0 31.4 R
ψ Aquarii
207 Camel Bessp Ari Z 6

39 Cephei H 4th wire lost Abb
γ Urs Maj SP "
ω Piscium "
2 Ceti "
α Andromedae "
160 γ Pegasi "
5 Urs Min B object lost back of last wire
ε C. Ori 16h [illegible]

1864 Dec 9th Sll M
EC 0h 20m 0
12 Ceti 2d too soon AW
EC 0h 26m 0 "
EC 0h 45m 0
ε Ursae Maj SP
υ Andromedae ns 1st wire lost "
ε Piscium "
44 Cephei 1 & 2 too soon "
β Andromedae ns "
α Urs Min (Polaris) unsteady "
γ Cassiopeae "
170 η Piscium "
EC 1h 25m 0
EC 1h 58m 0
α Arietis "
67 Ceti (haze) very faint 4 & 5 uncertain "
ι Cassiopeae 1 & 2 bad "
174 42/3 Ceti faint – the haze thickens "
EC 2h 23m 0

1864 Dec 13th MW

EC 20 34 0
175 & by just being rather bad?
" 20 38 0

1864 Dec 14th MW

176 δ Piscium
8.5 0 46 11.0 + 1 7.0
7.9 0 47 36.0 0 0.4
μ Andromidae
EC 0 55 0
ink faded
EC 1 0 0
pen up
EC 1 2 0
180 Polaris Ari 2a ½ wh to last third of 5 W,
Aletis each one had contact, so
24 Camel Bp Ari 2a
η Piscium
8.3 1 25 16.5 +2 17.5
6.3 1 26 29.4 1 50.3
7.8 1 22 21.2 0 12.7

Tw

1864 Dec 14 I W West. cont.

~~Setting for υ Persei~~

In moving chair to position for υ Persei the altitude screw of the diaphragm came in contact with observer's eye. Presumably no damage done to collimation.

		υ Persei?	4.5	
		ζ Ceti		
	E	1 39 "		
	E	1 41 0		
		χ Ceti		
190	8.5	1 44 6.2	+1 41.7	
	8.5	1 45 10.0	+1 47.1	
	8.0	1 47 17.3	+2 39.7	
	6.2	1 48 23.9	+1 7.5	
	4.5	1 52 36.9	+2 24.1	
		α Piscium folly [illegible] beautifully seen		
	8.5	1 55 35.1	1 9.4	
		α Arietis		
	8.3	2 1 16.6	0 15.5	
	7.2	2 7 44.0	0 3.0	
200		67 Ceti		
	8.2	2 11 49.8	+1 59.9	
	8.8	2 17 54.1	0 55.1	
		ξ Ceti		
	8.2	2 21 52.7	+0 8.1	
	8.4	2 23 48.5	0 52.1	
	8.5	2 25 29.1	1 1.7	
	7.2	2 31 6.6	2 48.3	
		ε Ceti		
		γ Ceti		
210	8.3	2 36 19.6	+2 12.4	2.3.4.5
		41 Arietis		
	8.5	2 42 50.4	+1 50.7	
	7.5	2 43 51.1	+1 35.3	
	7.0	2 46 9.1	+1 23.6	
	7.5	2 47 35.3	+2 54.3	
		η Eridani		
		ε Arietis		
218		α Ceti		
	E	2 57 0		

Tm

1864 Dec. 20 JMW.

EC 20 34 0

α Cygni very trembling

EC 20 40 0

EC 21 19 0

220 β Aquarii trembling

21 26 0

EC 23 31 0

ι Piscium

4.6 23 34 39.6 +0 59.1
8.5 37 39.6 1 17.0
6.2 39 0.5 2 40.8

B ~~XXIII~~ 192

Radcl. 6202 Ai 2^{2}.

7.8 23 46 54.2 +2 52.6
8.0 48 9.7 2 42.6 faint

ω Piscium

230 8.2 23 52 59.0 +1 50.9

2 Ceti

7.7 23 57 58.0 +2 47.4

α Andromedae

8.0 0 3 13.8 +1 29.1

γ Pegasi

7.2 0 7 10.9 +0 29.7

[illegible] 13

8.0 0 16 51.3 +0 45.2
8.3 0 18 31.4 1 8.3
240 7.7 0 19 55.4 2 0.4

12 Ceti

ζ Cassiopejae

7.3 0 43 37.6 +1 57.0
7.9 0 47 36.0 0 0.4

μ Andromedae

246 ~~43~~ Cephei lt 2.3.4.5' Ai 2^{6}.

The seeing was pretty bad and clouds rather troublesome at observing faint stars.

Azm. Tying

ε Piscium (was false break before second wire) (1st wire lost) bad AM
β Andromedae
Polaris "
θ Ceti "
η Piscium
υ Persei "
γ Piscium < τ Ceti "
EC 1h 39m 0

1864 Dec 20th SMW
EC 1h 44m 0s   sheet No 2
β Arietis short signal   AM
                                "
α Piscium foll   "
α Arietis   "
Gr 2099   "
67 Ceti   "
ο Ceti [illegible] n. 5th wire lost faint
ζ² Ceti   "
EC 2h 29m 0
EC 2h 36m 0
Pl XIV 217 SP reject 5th   AM
η Eridani, reject 1st   AM
β Urs Min n.s. 4 and 5
α Ceti   AM
δ Arietis bad haze some stars not seen
α Persei   AM
σ Tauri faint   "
γ Urs Min SP   "
clouds
268 EC 3h 31

1864 Dec 30th SM West
EC 22h 55m 0s No 1   AM
α Pegasi
EC 23h 0m 0s   AM

EC 23h 22m 0s   AM
39 Cephei H
ι Piscium   AM
Pisces Aust
γ Urs Maj SP
ω Piscium
EC 23h 54m 0s   AM
Sheet No 2
EC 23h 58m 0s   AM
α Andromedae short signal
γ Pegasi
5 Ursae Min B reject ~~[illegible]~~ last b. of last wire
6 Ursae Min B 4 & 5 rej 1st Break last wire
12 Ceti   AM
α Cassiopeiae ns 1st wire lost
581 β Ceti   AM

Next Page

1864 Dec 30th AMM   Sheet No 2

282 δ Piscium — — — — — — AM
+ γ Cassiopeae
43 Cephei H   1st wire lost   AM
ε Piscium — — — — — —
β Andromedae   AM
Polaris (α Urs Min)
EC 1^{h} 16^{m} 0^{s} AM

EC 1^{h} 55^{m} 0^{s} AM
α Arietis
Gr 2099   SP   AM
67 Ceti
ζ^{2} Ceti   "
ε Ceti
γ Ceti   "
My head came in contact with the upper screw head, did not injure my head or disturb the stars position in field
41 Arietis   AM
η Eridani   "
– α Ceti   "
δ Arietis

EC 3^{h} 6^{m} 0^{s}

EC 3^{h} 13^{m} 0^{s} Sheet No 3   AM
α Persei
ο Tauri   "
Clouds
ε Eridani
Clouds
EC 3^{h} 38^{m} 0^{s}
EC 3^{h} 45^{m} 0^{s}
236 compared
EC 3^{h} 49^{m} 0^{s}

1865 January 2^d Ill West

EC 4^h 48^m 0^s

ζ Tauri AM
ε Leporis "
α Aurigae NS. "
β Orionis "
τ Orionis "
β Tauri "
64 Camel B NS first wire lost "
δ Orionis "
α Leporis "
ε Orionis "
α Columbae 2^d wire too soon "
κ Orionis "
α Orionis "
θ Aurigae NS (1^{st} wire late probable) "
1 Geminorum NS 3.4.5 wires "
ν Orionis — — — — — — "
η Geminorum "
40 Draconis
41 Draconis "
μ Geminorum
β Canis Maj "
ν Geminorum
23 Camel H reject 1^{st} b of 2^d w and 1^{st} b of 4^{th} wire
51 Cephei H reject last b of 2^d w AM
13 κ' Canis Maj "
EC 6^h 45^m 0^s "

1865 January 3^d Ill West

EC 0^h 10^m 0^s

α Andromedae - — — — — - AM
γ Pegasi "
Moon I "
EC 0^h 15^m 0^s "

EC 0 25 0 TWS begins

ζ Cassiopejae TWS
β Ceti
ε Piscium
Polaris Ari 2^b,

7.8	1 24 45.4	+2 56.3	
8.3	26 25.4	1 50.3	f.
7.8	27 21.2	0 12.7	

1865 Jan 3 continued JuW.

7.8 | 1 30 52.9 + 1 50.7
v Piscium
τ Ceti 4.5 Cloudy.
7.3 | 1 38 26.1 + 2 40.4
6.5 | .40 56.1 2 56.9
χ Ceti
6.5 | 1 52 36.9 2 24.1
α Piscium Jolly
45, α Arietis 4.5,
Cloudy
° Cl 2 7 0

1865 Jan 4th All Jr

EC 3h 7m 0s No 1 Ann
σ Tauri unsteady "
57 Urs Min B ns 1 w lost "
ε Eridani "
EC 3h 27m 0s
EC 3h 32m 0s No 2
δ Eridani — Ann
η Tauri — "
ζ Persei ns accidental break after last wire
γ Eridani Ann
gr 750 "
o' Eridani ns 1 w lost Ann
δ Tauri "
64 Tauri
ε Tauri 3d wire too soon {snow blows in on instrument and observer}
α Tauri Ann
53 Eridani seeing improving
μ Eridani "
ι Aurigae more snow blows in
ℓ Tauri "
ε Leporis
α Aurigae "
β Orionis "
τ Orionis "
β Tauri "
64 Camel B ns 1st wire lost "
β Leporis "

1865 Jan 4th continued S M W

δ Orionis AM
ε Orionis "
α Columbae "
κ Orionis "
α Orionis "
θ Aurigae "

EC 5^{h} 53^{m} 0^{s}

EC 5 57 0

1865 Jan 9th I ll West

EC 0^{h} 33^{m} 0^{s}
β Ceti – – – – AM
γ Cassiopeae – – – – "
EC 0^{h} 51^{m} 0^{s}

EC 11^{h} 23^{m} 0
23b 11^{h} 26^{m} 0 ± 11^{h} 26^{m} 30^{s}
26^{m} 0

1865 Jan 11th I ll West

EC 22^{h} 47^{m} 0^{s}
α Pegasi 2d wire reject – 4th wire lost unsteady
EC 22^{h} 59^{m} 0^{s}

EC 0^{h} 0^{m} 0^{s}
α Andromedae AM
γ Pegasi "
ζ Cassiopeae "
α Cassiopeae "
β Ceti "
β Andromedae "
Polaris
Star fr Clypic THS AR only faint THS
South star 8^{m} (9.5 pole) Decl. −19° 18′ "
γ Piscium THS "
τ Ceti THS "
+ preceding χ Ceti 1.2.3 "
χ Ceti

Tr

1865 Jan 11 S.W.S. continued

β Arietis
67 Ceti
ο Ceti

AM
"

EC 2^h 13^m 0^s

EC 2^h 16^m 0^s No 2 e/s at Equatorial

EC 3^h 14^m 0^s

ο Tauri 1 2 and 5 {rest back of threads (are) any - tho ill
ε Eridani
δ Persei reject 1st wire
δ Eridani
ζ Persei
Gr 750 < γ Eridani reject 1 Break to 2d wire
γ Tauri
δ Tauri
64 Tauri n1 .
ε Tauri
α Tauri
53 Eridani
μ Eridani 2 & 5 too soon?
ι Aurigae Not good
ι Tauri
ε Leporis
α Aurigae
β Orionis
τ Orionis
β Leporis
δ Orionis
α Leporis
ε Orionis

EC 5^h 30^m 0^s
EC 5^h 31^m 0^s No 3
κ Orionis
α Orionis
θ Aurigae short signal
1 Geminorum
ν Orionis not good unsteady
η Geminorum
κ Columbae
μ Geminorum
β Canis Maj

1865 January 11th Continued AM

ν Geminorum
23 Camel. H — {three breaks for fourth wire indistinctly}
γ Geminorum
57 Cephei H last wire omitted
α Canis Majoris
13 κ¹ Canis Majoris
θ Canis Majoris
ε Canis Maj
ζ Geminorum AM

EC 7h 0m OS

1865 Jan 12th, [illegible] W

E 0 48 0
43 Cephei H. 2.3.4.5 Ai 2a
(70 Piscium?) Star prec 2. R[illegible]

	2 Piscium		
8.5	1 1 45.0	+1 46.7	faint
6.0	3 10.0	1 34.4	
	Polaris	Ai 2a	
	φ Cassiopejae		
	[illegible]		
7.8	1 17 25.7	+2 36.3	
	214 Camel H sp	2.3.4.5	Ai 2a
7.8	1 24 45.4	+2 56.3	
8.3	25 16.5	+2 17.5	2w.
8.0	26 39.4	+1 43.0	
8.3	32 5.3	+2 49.3	
8.2	33 18.0	+1 58.3	
8.3	34 42.3	+1 34.9	
8.0	36 21.1	+2 54.8	
7.3	38 26.1	+2 40.4	
6.5	40 56.1	+2 56.9	
	219 Camel H	2.3.4.5	Ai 2a

E 1 48 0
New Sheet No 2

E 1 51 0
κ Piscium pr 135
pole 24

8.0	1 55 29.2	+2 39.1	3.4.5
	ι Arietis		

over

8.3 2 1 16.6 0 15.5
7.3 4 46.2 2 5.2 ? Chronogr. van Dorn

~~[illegible]~~

o Ceti : brighter than lately

E 2 13 0

Filled pen

U 2 21 0

8.4 2 23 48.5 +0 52.1
8.5 25 29.1 1 1.7

ε Ceti
γ Ceti

8.5 2 42 50.4 +1 50.7
7.5 2 43 51.1 1 35.3
7.0 2 46 9.1 1 22.6
7.5 2 47 35.3 2 54.3

η Eridani
ε Arietis
λ Ceti
β Persei
δ Arietis
17 Eridani
f pr. ξ Eridani
ξ Eridani
o Tauri
323 Cephei B. Ari 2a
ε Eridani
δ Eridani AM
η Tauri "
ζ Persei "
γ Eridani "
o' Eridani "
γ Tauri "
δ Tauri "
64 Tauri reject first wire
ε Tauri AM
η Draconis ZHS.
+ Tauri "

E 4 30 0

1865 January 13th Ill West

EC 2^h 30^m 0^s

ε Ceti		AM
γ Ceti		"
41 Arietis		"
η Eridani		"
α Ceti		"
β Persei		"
δ Arietis		"
ζ Eridani ?		"
α Persei	1st wire too soon	"
(ο Tauri)	wire broken no record	
ε Eridani		"
δ Persei		"
δ Eridani		"
η Tauri		"
ζ Persei		"
γ Eridani		"
Haze too thick for faint stars		"
ο¹ Eridani	wi. 3.4.5	"
γ Tauri		"
δ Tauri		"
64 Tauri		"
ε Tauri		"
α Tauri		"
53 Eridani		"
υ Eridani		"
9 Camelop	3d too soon	"
ι Aurigae		"
ι Tauri	very faint	"
α Aurigae		"
β Orionis		"
EC 5^h 9^m 0^s		"

1865 January 16th Ill West

EC 0^h 0^m 0^s

γ Pegasi AM

EC 0^h 8^m 0^s

EC 0^h 34^m 0^s

β Ceti
δ Piscium
ε Urs Maj
ε Piscium

over

β Andromedae AM
Polaris "
ε Cassiopeae "
η Piscium 7h 45 (begin) "
8.0 1 26 39.4 +1 43.0 faint
6.0 1 29 57.7 11 27.1 pr Ellipse π Piscium
7.5 1 30 31.0 11 23.4 " " Br. 218. 58 Mayer
8.3 1 32 5.3 2 49.3
ν Piscium
~~[illegible] 1 3[illegible] 34.5 0 5.1~~
8.5 1 35 51.8 +11 53.2 per Ellipse
τ Ceti
8.0 1 39 54.5 +0 5.1
8.5 1 49 14.1 +0 56.6
50 Cassiopeiae
α Piscium foll 1 35 }
pr 24 }
8.0 1 55 29.2 +2 39.1
α Arietis
8.3 2 2 12.5 +1 1.3
7.3 2 4 46.2 +2 5.2

Experiment Eq

67 Ceti AM
ο Ceti faint "
ξ Ceti Equat. cir. put in "
γ Ceti "
41 Arietis "
η Eridani 5th bad
α Ceti
β Persei
El 3 0 0
New Sheet No. 2
El 3 2 0
δ Arietis AM
12 α Eridani "
ζ Eridani "
α Persei "
ο Tauri "
ξ Eridani "
δ Persei "
δ Eridani "
η Tauri Equat. cir. put out "
ο¹ Eridani "
γ Tauri unsteady "
δ Tauri "
64 Tauri "
ε Tauri "

α Tauri		Am
53 Eridani		"
μ Eridani		"
ι Aurigae		"
ι Tauri		"
ε Leporis		"
α Aurigae		"
β Orionis		"
τ Orionis		"
β Tauri		"
β Leporis		"
δ Orionis		"
α Leporis		"
ε Orionis		"
α Columbae		"
κ Orionis		
ε C 5^h 42^m 0^s		
ε C 5^h 45^m 0^s	No 3	
α Orionis		Am
θ Aurigae		"
1 Geminorum		"
κ Columbae		"
μ Geminorum		
δ Urs Min	4th wire —	"
ν Geminorum		"
γ Geminorum		"
51 Cephei	1 .2.3.4 wires—	
α Canis Maj		"
ζ Geminorum		
γ Canis Maj		"
δ Canis Maj		"
λ Geminorum		
4 Urs Min B	NS 1 2 3 faint	
α Geminorum	Inc 1 3 5. foll. 2 4.	
α Canis Minoris		"
β Geminorum		"
ε C $7\ ^{37}\ ^{0}$		

1865 January 18th Ill West

EC 0h 0m 0s
a Andromedae AM
γ Pegasi "
EC 0h 7m 0s

EC ———
δ Piscium AM
EC 0h 43m 0s
u Andromedae "
ε Piscium "
β Andromedae
Polaris us
θ Ceti
T.H.S begins
η Piscium
7.8 1 24 45.4 +2 56.3
8.0 1 26 39.4 1 43.0
π Piscium
Bradley 217
7.8 1 30 52.9 +1 50.7 } Clytia's stair of the 16th
8.3 32 6.3 2 49.3 faint
ν Piscium
8.3 1 34 42.3 +1 34.9 3.4.5?
8.0 36 21.1 2 51.8
ζ Ceti
8.0 1 39 54.5 +0 5.1
8.0 1 47 17.3 +2 39.7
8.5 1 49 14.1 +0 56.6
50 of a [illegible]
ζ Piscium folly
8.0 1 55 29.2 +2 39.1
α Arietis 2, 3, 4.5
8.3 2 2 12.5 +1 1.3 faint ref 2,
7.4 2 4 13.1 +2 46.9
67 Ceti
o Ceti
8.2 2 14 22.0 +0 18.4
8.8 17 54.1 0 55.1
ζ^{a} Ceti
8.2 2 21 52.7 +0 8.1
8.4 23 48.5 0 52.1
8.5 25 29.1 1 1.7
T.H.S ends

/ next page

1865 Jan 18th I.W. West cont.

ε Ceti		Ahr
γ Ceti	reject 5th wire	"
41 Arietis		"
η Eridani		
ε Arietis		"
β Persei		"
δ Arietis		"
12a Eridani		
EC 3h 7m 0s		
ζ Eridani		
EC 3h 10m 0s	N2	"
α Persei		"
ο Tauri		
ε Eridani		"
δ Persei		"
δ Eridani		"
η Tauri		"
ζ Persei		"
γ Eridani		
62 Urs Min B	reject 1st brake 4th wire	
ο¹ Eridani		
α Tauri		
53 Eridani		
υ Eridani		
ι Aurigae	carried up with Equat Obs.	
ι Tauri	" " " "	
ε Leporis		Ahr
α Aurigae		"
β Orionis		"
τ Orionis		"
β Tauri		"
β Leporis		"
δ Orionis		"
α Leporis		"
α Columbae		
α Orionis		
EC 5h 48m 0s		

21 12 11 "

Oscillation of spirit TWS, Ohw lamp Ahr

13 11 0

1865 January 20th Old West

EC 0^h 0^m 0^s
α Andromedae AM
EC 0^h 7^m 0^s
EC 0^h 27 0^s
ζ Cassiopeae accidental break before first wire
α Cassiopeae "
EC 0^h 34^m 0^s
EC 0^h 47^m 0^s
μ Andromedae "
α Urs Min (Polaris)
υ Persei
EC 1^h 31^m 0^s
EC 1^h 45^m 0^s
β Arietis AM
γ Andromedae
α Arietis

EC 2 33 0
" 2 39 9

Proserpina J.A.S.

ε Arietis AM
α Ceti
β Persei
δ Arietis wires loose
12 α Eridani
ζ Eridani
EC 3^h 10^m 0
EC 3^h 12^m 0
α Persei
57 Urs Min, B
ε Eridani
δ Persei
δ Eridani
η Tauri
ζ Persei
ζ Urs Minoris
γ Eridani
Gr 750
γ Tauri
δ Tauri
64 Tauri
ε Tauri
η Draconis Two breaks for first wire

α Tauri AM
53. Eridani "
μ Eridani "
ι Aurigae "
ι Tauri "
ε Leporis — break before last wire
α Aurigae
β Orionis
τ Orionis Equat obs! mixed in
β Tauri
β Leporis ns Equat work "
δ Orionis
~~[illegible]~~ α Leporis or "
* Prec ε Orionis two last ns
ε Orionis ns "
α Columbae
EC 5^h 35 9 "
EC 5^h 37 0 "
κ Orionis "
α Orionis
θ Aurigae ns .3.4 5 wires "
1 Geminorum "
ν Orionis
η Geminorum "
κ Columbae
μ Geminorum "
β Canis Maj
ν Geminorum a break since last wire
γ Geminorum
ξ Geminorum
α Canis Maj

EC 7^h 1^m

1865 Jan 24. M W.

Sl 1 33 0
ν Piscium
Sl 1 43 0
β Arietis
ψ Andromedae mag 4
α Arietis
7.4 2h 4m 13.1 +2° 46'.9
8.3 5 29.7 +3 36.5
8.3 7 4.9 −1 52.4
67 Ceti
ο Ceti
8.2 2 14 22.0 +0 18.4 bright
9.4 15 52.6 1 12.4 very faint
ξ² Ceti
9.0 2 21 30.1 +1 39.1
9.0 22 0.6 +1 33.2 faint
7.5 24 0.6 +0 28.0 praecedens sequens
eadem stella
8.5 25 18.1 +0 50.6
Gr. 527 Ari 2ª
7.2 2 31 6.5 +2 48.3
ξ Ceti
γ Ceti
Sl 2 37 0
New Sheet W. Z.
Sl 2 41 0
8.5 2 42 10.3 +1 11.5
9.2 43 40.8 1 4.7
9.0 46 7.1 1 17.4 faint 1.3.4.5
8.8 47 22.0 1 6.2
η Eridani
ε Arietis
α Ceti
6.5 2 57 9.8 +1 19.0
6.3 2 57 46.8 1 20.4
β Persei
8.5 3 1 36.9 +2 18.0
δ Arietis
τ Eridani
8.5 3 7 5.9 +2 14.3
+ prae ζ Eridani 1.2.4.5
ζ Eridani

δ Eridani AM
η Tauri 〃
γ Eridani 〃
ο¹ Eridani
EC 4^h 9^m 0

EC 4^h 13^m 0 No 3
δ Tauri AM
64 Tauri 〃
ε Tauri 〃
η Draconis S.P. (ns) 〃
α Tauri 〃
53 Eridani 〃
~~[illegible] ?~~ 〃
* N.P.D. 99° 43′
ι Aurigae 〃
ι Tauri ns } Equatorial obsn in here
ε Leporis ns }
α Aurigae
β Orionis AM

α Orionis (11.5
γ —— 〃
δ Ursae minoris 1. 4.5 . T.11.5
μ Geminorum between wires of power. 〃
ν —— 4.5 Rad. reqd.
Sirius
[illegible] 51 [illegible]

1865 January 25th
β Ceti EC 0^h 34^m 0^s AM
EC 0^h 38^m 0^s
EC 1^h 4^m 0^s

Polaris
EC 1^h 15^m 0^s
EC 1^h 45^m 0^s
β Arietis AM
γ Andromedae 〃
α Arietis
67 Ceti 〃
ο Ceti
EC 2^h 13^m 0^s

1865 Jan 28 west.

EC 3^h 22^m 0^s AM
ε Eridani
δ Eridani
η Tauri
ζ Persei
3 Urs Min
γ Eridani
62 Urs Min B
o¹ Eridani (Ill bad)
γ Tauri
δ ——
64 —— Lamp went out
η Draconis
α Tauri
ι Tauri
ε Leporis
α Aurigae
β Orionis
EC 5^h 9^m 0^s
EC 6^h 12^m 0^s
(22 β Tauri
β Leporis
δ Orionis } ns
α Leporis
ε Orionis
α Columbae part of a signal AM
κ Orionis
α ——
θ Aurigae
1 Geminorum
ν Orionis
κ Columbae
δ Urs Min 1 3 4 5
μ Geminorum
ν Geminorum
γ Geminorum
51 Cephei 1 3 4
ε Geminorum
α Canis Maj AM
EC 6^h 40^m 0^s

1865 Jan 24th M. East

℃ 1 . . .

1 44 0
β Arietis
5t Cassiopejae 3.4.5
γ Andromedae
α Arietis 3.4.5.
7.4 2 4 13.1 + 2 46.9
7.2 2 7 44.0 0 3.0
7.7 2 9 44.8 1 11.8
8.2 . 11 49.8 1 59.9
ξ Ceti
9.0 2 21 30.1 1 39.1
9.0 2 22 0.6 1 33.2 faint
7.5 2 24 0.6 0 28.0 prec }
7.5 2 24 0.6 0 28.0 foll }
8.5 2 25 18.1 0 50.6 faint
7.2 2 31 6.5 2 48.3
ζ Ceti
γ ——
8.3 ~~2 36 19.5 + 2 12.4~~ bright

℃ 2 40 0

℃ 3 49 0
7.8 3 55 45.5 + 2 39.3
62 Ursae min B.Ap 2 3 4 5 Au z³.
ο Eridani
8.0 4 6 53.8 + 1 17.1
8.8 8 55.0 1 42.7
8.8 9 58.5 1 47.2
γ Tauri
δ ——
64 ——
8.0 4 16 53.0 + 2 8.8
ε Tauri
η Draconis sp.
α Tauri
8.3 4 29 59.2 + 0 16.2 }
8.3 4 29 59.6 + 0 14.4 }
53 Eridani
R. XVI. 182 sp
50 Cephei ff
α Eridani

over

Tn

1865 Jan 26. M Clark,

9 Camelopardi
ι Aurigae
8.5 4 48 50.5 +1 7.5
8.5 49 54.5 0 45.7
7.8 50 52.0 0 13.5
ι Tauri
6.0 4 57 53.8 0 58.5
ε Leporis
8.3 5 0 59.1 0 44.9
α Aurigae
β Orionis
6.8 5 9 9.9 +1 47.5
τ Orionis
β Tauri
64 Camel B 2. 3. 4 8 Ari 26

EC 5 23 0

Gave up observing being much fatigued and not very well.

1865 January 27th Ill Cast

EC 1h 4m 0s No 1 Am
Polaris
ν Persei
β Arietis
EC 1h 48m 0s
EC 1h 52m 0s No 2
γ Andromedae "
α Arietis "
87 Ceti
0
EC 2h 13m 01 ~~sure~~
EC 2 51m 01
α Ceti
β Persei
δ Arietis
12 α Eridani
ζ Eridani "
α Persei
γ Ursae Minoris
57 Urs Min B. 4.5.

1865 January 27th Ill East (continued)

ε Eridani
δ Persei
δ Eridani
η Tauri
ζ Persei
ζ Urs Min S.P. reject break before third wire
γ Eridani
Gr. 750 reject *last* break
ο' Eridani
γ Tauri
δ ——
64 ——
ε ——
η Draconis
α Tauri reject 1st wire
53 Eridani
μ Eridani
ι Aurigae
ι Tauri
ε Leporis
EC 5h 1m 0s
EC 5h 3m 0s No 3
α Aurigae
β Orionis
τ ——
β Tauri
β Leporis
δ Orionis
α Leporis
ε Orionis
α Columbae
κ Orionis
α ——
θ Aurigae
1 Geminorum
η Geminorum
κ Columbae
δ Urs Min 1 // 3 4 5
μ Geminorum //
ν Geminorum
γ Geminorum
51 Cephei 1 // 3 4
ε Geminorum //
α Canis Maj
EC 6h 46m 0s

1865 Jan 28th M.E.

EC 1 35 0

χ Ceti
α Arietis
8.0 2 8 58.1 +1 35.0
7.7 9 44.8 1 11.8 prob.
ο Ceti
6.1 2 20 32.1 1 19.1
8.2 21 52.7 0 8.1
5.5 24 1.1 1 38.1
EC 2 25. 0
new Sheet No. 2

EC 2 30 0
ξ Ceti
y
8.3 2 36 19.5 +2 12.4
8.5 42 10.3 1 11.5 9 of obs
9.2 43 40.8 1 4.9 faint
9.0 46 7.1 1 17.4 faint
8.8 47 22.0 1 6.2 faint
ξ Arietis
8.0 2 57 56.0 1 4.0
8.0 53 58.3 0 34.8
α Ceti
8.0 2 55 42.1 0 47.0
6.5 57 9.8 1 19.0
8.3 57 46.8 1 20.4
β Persei
δ Arietis
12 Eridani

(Started up comet & 3h 15m 3h 45m Diff and made a rough obs.)

24. 0
EC 4 20 0
α Tauri F.W.S
ι Aurigae AM
ι Tauri "
ε Leporis "
α Aurigae Ill bad "
β Eridani no Ill. not good
EC 5h 9m 0s
EC 5h 14m 0s No 3 AM
β Tauri "
β Leporis "
δ Orionis "
α Leporis "
ε Orionis "
EC 5h 30m 0s

1865 Jan 28th Sk. East cont.

EC 5 56 0
h m s
8.2 b 2 17.8 +1° d.o
η Geminorum
7.8 b 8 5.0 + 4 52.4
40 Draconis 2.3.4.5 } Ai 3.
41 —— 2.3.4.5 }
μ Geminorum
β Canis majoris
EC. 6 39 0,
Seeing too bad to continue

1865 Jan 30th Sk East AM
EC 1^h 4^m 0^s
Polaris good seeing after first wire reject 4th wire - accidental break after last
EC 1^h 15^m 0^s

EC ——
γ Andromedae
EC 1^h 57^m 0^s
α Arietis
EC 2^h 4^m 0^s
EC 2^h 10^m 0^s
o Ceti
~~ξ Ceti~~ ξ Ceti
γ Ceti
EC 2^h 37^m 0^s

EC 3^h 0^m 0^s

* Prec γ Eridani no first wire but
γ Eridani
62 Urs Min B. S.P.
o¹ Eridani
ψ Tauri
δ ——
64 ——
[illegible] Draconis S.P.
α Tauri
53 Eridani

1865 Jan 30th Sll East

EC 4^h 35^m 0^s sheet loose

EC 4^h 37^m 0^s

ν Eridani All

ι Aurigae

ι Tauri "

ε Leporis "

α Aurigae "

β Orionis — Companion very distinct "

γ ———

β Leporis

δ Orionis

α Leporis

ε Orionis

EC 5^h 30^m 0^s

EC 5^h 32^m 0^s No 3

α Columbae ns 1st wire lost

κ Orionis

α Orionis

θ Aurigae

ι Geminorum

ν Orionis

η Geminorum

κ Columbae

δ Urs Min 1 2 3

β Canis Maj

ν Geminorum

51 Cephei 1 2 3 4

α Canis Maj

ε Canis Maj

ζ Geminorum ns

γ Canis Maj

δ Canis Maj

λ Geminorum ns 1st lost 2d doubtful

δ Geminorum

η Canis Maj

1 α Geminorum 1 3 5

2 α Geminorum 2 3

α Canis Minoris

β Geminorum

EC 8^h 9^m 0^s

EC 8h 13m 0s No4

Some transits of [illegible]?

1865 Feb. 1st M.E.

E 3 30 0

	δ Persei lost by ink	
	λ Eridani 4.5	
	η Tauri	
	ξ Persei	
8.2	3 46 35.5	+1 44.4
8.0	48 47.6	1 46.6
~~8.2~~	γ Eridani	
8.2	3 52 13.5	+1 21.9
7.8	55 45.5	2 39.3
5.8	56 34.8	2 25.5
	θ Draconis ep.	
8.2	4 1 14.7	0 23.8
8.0	2 49.3	0 57.5
8.2	3 38.0	1 56.8
	ο Eridani	
8.0	4 6 53.8	1 17.1
8.8	8 55.0	1 42.7
8.8	9 58.5	1 47.2
	γ Tauri	
8.2	4 13 36.5	+ 0 50.5
	δ Tauri	
	64 ——	
8.0	4 16 53.0	+2 8.8
	ε Tauri	
	η Draconis ep.	

α Tauri AM
53 Eridani
Pi XVI 182 SP ns 1st lost
50 Cephei H 1st lost
μ Eridani
ι Aurigae
ι Tauri
ε Leporis
EC 5h 1m 0s
EC 5h 2m 0s

1865 Feb 1st (Continued) Ill East

α Aurigae AM
β Orionis "
γ Orionis "
β Tauri
64 Camel B 1st lost
β Leporis
δ Orionis
α Leporis
EC 5 27 a

New Sheet No 2
EC 5 29 o
ε Orionis
α Columbae
κ Orionis
α ——
α Aurigae reject 1st wire
1 Geminorum
ν Orionis
η Geminorum
κ Columbae
μ Geminorum
δ Urs Min 4h8
ν Geminorum
51 Cephei 1 2 3 4
α Canis Majoris {1st and 5th wires doubtful
[illegible]
[illegible]}

Lewis then Sp 95 VMS

13 κ Canis Maj
ε Canis Maj
ζ Geminorum
ψ Canis Maj
κ Geminorum
δ ——
η Canis Maj {4.5th reject—star faint
probably 5th was an imaginary transit}
1a Geminorum . 2 . 4 .
2a —— 1 . 3 . 5 .
α Canis Min
β Geminorum
EC 7h 38m o.s

1865 Feb 1st M.E. (continued)

IHS again El 7 51 0 New Sheet No 3.
ξ Geminorum
ι Navis
El 8 3 0

1865 Feb. 2d

El 1 6 0 Polaris Ari 2d. 2 3 4 5 false blk 4. 1st befor
El. 1 15 0

El 1 44 0
γ Andromedae
α Arietis
6.8 2 20 32.1 + 1 19.1
30 Ceti Hev. 5.5 24 1.1 1 38.1
ε Ceti
γ ——
El 2 38 0

El 3 38 0
η Tauri
8.3 3 40 37.9 2 18.9 faint mi 2
8.3 42 4.9 0 56.2
8.6 42 48.4 0 58.5
ζ Persei
8.2 3 46 35.5 1 44.4
8.0 48 47.6 1 46.6
7.4 50 52.9 1 2.2
8.2 52 13.5 1 21.9
7.8 55 45.5 2 39.3
5.8 56 34.8 2 25.5
8.2 4 1 14.7 0 23.8
Gr 779 Ari 2.6
7.8 4 5 27.0 1 32.4
8.5 6 53.8 1 [illegible]
γ Tauri
8.2 4 13 36.5 0 50.5
δ Tauri
64 ——
8.0 4 16 53.0 +2 8.8
8.5 18 1.3 2 35.2
ε Tauri

over

ι Tauri
5.7 4 29 45.9 +0 42.6
[illegible] Eridani
B. xvi. 182 sp 3.4.5 Ai 2^b.
50 Cephei H ″
μ Eridani
ζ Camelop H
7.8 4 41 59.7 +1 56.2
8.2 44 41.8 1 16.2
ι Aurigae

EC 4 50 0
New Sheet No. 2

EC 4 52 0
ι Tauri
6.0 4 57 53.8 +0 58.5
ε Leporis
8.3 5 0 59.1 +0 44.9 bright
6.5 5 4 17.2 +0 50.8
α Aurigae
β Orionis JWS. and J
EC 5h 27m 0s
ε Orionis AM begins
α Columbae ″
κ Orionis
φ Draconis prec & foll
– α Orionis – {last wire lost on record}
γ Geminorum
ν Orionis
η Geminorum
κ Columbae – {very much mixd up by dome work}

JWS
[illegible]
GHB

δ Ursae min 3.4.5 Ai 2^a, TH Safford
ξ Geminorum
δ Canis majoris
ε
ζ Geminorum
ε Canis majoris
δ Geminorum
η Canis majoris
EC 7 20 0

1865 Feb. 2 Mr. East

EC 7 24 0
δ Geminorum pr. 1.3.5
——— foll. 2.4
EC 7 27 0

EC 7 30 0
* prec. α Canis minoris (c) faint
α Canis minoris
* foll α Canis minoris (c)
* foll α Canis minoris (a)
β Geminorum

EC 7 39 0

1865 Feb 3^d Mr East
EC $4^h\,46^m\,0^s$
ι Aurigae AM
ι Tauri "
ε Leporis "
α Aurigae "
β Orionis "
τ ——— 3.4.5 reject last clouds faint
β Tauri
β Leporis very faint not well seen on 3^d W
δ Orionis
α Leporis
ε Orionis
EC $5^h\,35^m\,0^s$
Chronograph oiled
1 Geminorum
EC $5^h\,57^m\,0^s$
ν Orionis
η Geminorum rejected AM
δ Urs Min ns 3^d 5^{th} seen only by glimpses through Clouds-not of much value

γ Geminorum
EC

186~~4~~5 Feb. 9th JWE.

EC 1 53 0
γ Andromedae
α Arietis
EC 2 2 0
EC 2 35 0
γ Ceti
EC 2 37 0

EC 2 45 0
ε Arietis
α Ceti
7.8 3 0 12.4 +0 51.0
δ Arietis
12 Eridani
5.3 3 11 46.3 +2 50.9
57 Ari and B sp. Air 7d.
ε Eridani JWS and then
EC 3 29 0
EC 4h 10m 0s
γ Tauri AW
δ ~~64~~ ——
64 ——
ε ——
η Draconis SP
α Tauri
53 Eridani
μ ——
ι Aurigae
ι Tauri, JWS again
ε Leporis ″
6.5 5 4 17.2 +0 50.8
α Aurigae
β Orionis
6.8 5 9 9.7 +1 47.5
τ Orionis
6.1 5 11 37.0 +2 26.7
8.0 5 12 15.7 +2 22.4
7.2 5 13 9.6 +2 23.9
8.5 5 15 1.9 +2 27.9
β Tauri
Argland B 2.3.4.5 Air 2d.
β Leporis
EC 5 28 0
New Sheet No. 2

186~~4~~5 Feb. 9th Ch. E. cont.

EC 5 30 0
7.8 5 32 11.0 +0°44'.4
α Columbae
ψ¹ Draconis pr.
ψ¹ Draconis foll.
α Orionis
θ Aurigae
1 Geminorum
7.0 5 57 54.7 +0 37.1
ν Orionis
κ Columbae
δ Monocerotis 1.2.3
β Canis majoris
δ Monocerotis 5.
ν Geminorum
* fr Procyon 1st ph. alt. Rad. moisture on eyepiece
ε Geminorum
ε Canis majoris
ψ

EC 7 0 0

EC 7 24 0
Castor prec. 2.4
foll. 1.3.5 rej. 1.
* prec. α Canis min. faint
Procyon
* foll. Procyon faint
* foll. Procyon
Pollux
EC 7 40 0

186~~4~~5 Feb. 11th Ill. East

EC 1 46 0
β Arietis
γ Andromedae
α Arietis
EC 2 1 0
El 2 35 0
γ Ceti 1.3.4.5
" 2 38 0
El 2 52 0
δ Ceti
" 2 56 0
El 3 9.0 δ Arietis
10 0

1865 Feb. 11 M E cont

Ec 4 13 0
δ Tauri
64 Tauri
Ec 4 24 0
ε Tauri
4 Draconis sp 2345
α Tauri
5.7 4 29 45.9 + 0 42.6
53 Eridani
Rz XVI. 1829 sp 2.3.4.5 Air 2^b.
50 Cephei H.
μ Eridani
9 Camelop
Ec 4 46 0 (Cam up)
Ec new pen
ι Aurigae
α Aurigae
β Orionis
6.8 5 7 9.9 +1 47.5
ζ Orionis
6.1 5 14 37.0 +2 26.7
8.0 " 12 15.7 2 22.4 faint - must have on eye piece
7.2 " 13 9.6 2 23.9
8.5 " 15 1.9 2 27.9
β Tauri
64 Camelop 13 2.3.4.5 Air 2^b.
β Leporis
7.8 5 32 11.0 +0 44.4
α Columbae
6.5 5 39 6.8 +1 7.1 Cloudy
κ Orionis
ψ' Draconis pr. sp } Air 2^b.
ψ' Draconis foll. sp }
α Orionis
θ Aurigae
ι Geminorum
~~ν Orionis~~
η Geminorum
46 Draconis
~~
μ Geminorum
3 Ursae majoris
Ec 6 19 0 Seeing very bad.

1865 Feb 13th I M East

EC 2^h 49^m 0^s No 1
α Ceti (very unsteady not good) AM
EC 3^h 1^m 0^s
EC 3^h 5^m 0^s
12 Eridani
EC 3^h 7^m 0^s
EC 3^h 13^m 0
α Persei
EC 3^h 15^m 0^s
New Sheet No 2
EC 3^h 25^m 0^s
ε Eridani AM
δ Persei "
δ Eridani "
EC 3^h 37^m 0^s

EC 4^h 24^m 0^s
α Tauri
53 Eridani reject 4th wire AM
50 Cephei H unsteady "
μ Eridani .3.4.5 ill bad "

ι Aurigae "
ε Leporis "
α Aurigae "
β Orionis "
τ Orionis
β Tauri
64 Camel B. 2 3 4 5 "
δ Orionis "
α Leporis "
ε Orionis
α Columbae "
α Orionis
"
~~ν~~ "
η Geminorum
κ Columbae break before first wire
μ Geminorum

12 Orionis
ψ¹ Draconis
ψ² Draconis
folly

1865 Feb 13th All East (Continued)

AM

"

β Canis Majoris

γ Geminorum

γ

51 Cephei H 1/ 3 4 5 —

ε Geminorum

EC 6h 39m 0s

Tm

1865 Feb 14

EC 1 3 0

Polaris 3.4.5 Am 2a

EC 1 14 0

EC 1 53 0

γ Andromedae

α Arietis

EC 2 0 0

EC 2 48 0

α Ceti

δ Arietis

[illegible] Eridani

5.3 3 11 46.3 +2 50.9

α Persei

5 Ursae Min B sp Am 2d (star faint)

ε Eridani

6 Camel. H

8.0 3 31 23.4 +2 17.0

δ Persei

δ Eridani

8.0 3 37 11.6 +1 30.4

η Tauri

ξ ζ Persei

8.2 3 46 35.5 +1 44.4

ζ Ursae Min sp 2345 Am 2a

7.4 3 50 52.9 +1 2.2

8.2 3 52 13.5 1 21.9

A Draconis sp.

8.2 4 [illegible] 14.7 +0 23.8

8.0 4 2 49.3 +0 57.5

7.8 4 5 17.0 +1 32.4

8.5 4 6 52.8 +1 52.7

1865 Feb 6th Chr E Cont

γ Tauri
EC 4 13 0

EC 4 46 0
ι Aurigae AML
ε Leporis "
α Aurigae
β Orionis "

I ---
EC 5^h 11 0
EC 5^h 13 0 New Sheet No 2
β Tauri
β Leporis
α Columbae
κ Orionis
α Orionis
θ Aurigae ns
γ Geminorum
ν Orionis
η Geminorum
Haze in horizon & Columbae not seen
μ Geminorum
β Canis Maj
ν Geminorum
ε ---
51 Cephei H — thick Haze 3.4. (4th doubtful)
α Canis Maj
~~Haze~~
ε Canis Maj
EC 7^h 0^m 0^s
Stars ~~invisible~~

EC 7 28 0 GWB again
Procyon
Star foll Procyon
Pollux
EC 7 39 0

1865 Feb. 17th ~~1865~~ at 9h A.M. Prof. G. P. Bond departed this life.

1865 Feb. 21d. M E.

Polaris 4.5 Ari 2d.
El 1 15 0

El 1 54 0
γ Androm 3.4.5
α Arietis
Ec. ....

Ec 2 48 0
β Ursae min Gr.
α Ceti
El 2 56 0

El. 3 ....
δ Persei
δ Eridani
El 3 38 0

El 4 44 0
ι Aurigae
filled pen
Ec 4 52 0
6m.0 4 57 53.8 +0°58'.5
δ Ursae minoris 2.3.4.5 Ari 2d.
6.5 5 4 17.2 +0 50.8
α Aurigae
β Orionis
6.8 5 9 7.9 +1 47.5
6.1 5 11 37.11 +2 46.7
8.0 5 12 15.7 +2 22.4
7.2 5 13 9.6 +2 23.9
8.5 5 15 1.9 +2 27.9
7.2 5 26 20.7 +1 18.6
α Columbae

κ Orionis
ψ¹ Orionis pr } Ari 2d.
——— foll. }
α Orionis
θ Aurigae
γ Geminorum
[illegible]

1865 Feb. 21st M.E. cont.

40 [illegible]
41 ——
κ Columbae 1.2.3.4
EC 6 13 0
μ Geminorum
Am begins here
β Canis Maj 4 5 wires
ν Geminorum
γ ——
ε ——
α Canis Majoris
κ ——
θ ——
ε ——
γ ——
EC 6h 58m 0s
EC 7h 1m 0s New Sheet
δ Canis Maj
EC 7h 4m 0s
EC 7h 8m 0s
λ Geminorum
δ ——
VII 67 4 wire too soon
η Canis Maj
α Geminis prec 1.3.5
foll 1.2.4
Star preceding Procyon
Procyon
Star following Procyon
Star following Procyon
β Geminorum
ξ Argus 3.4.5 rej 3
ζ ——
ι ——
EC 8 4 0

1865 Feb 22d Ill East

EC 5h 40m os
κ Orionis AM
ψ Draconis prec
foll
α Orionis last wire too soon
θ Aurigae
1 Geminorum ns
Clouds
Circuit broken
δ Urs Min 2 3 4 5 —
Clouded up
236 comp
EC 1h 45m 05?

1865 Feb 23d Ill East (24 Cuml)
EC 19h 40m os
α Aquilae
~~236~~ Compared
19h 47m os

1865 Feb 24 Ill East
EC 1h 0m os
Polaris unsteady AM
EC 1h 14m os
EC 1 57 0
α Arietis
EC 2h 0m os
False start
EC 2h 49m os
β Urs Min SP
EC 2h 56 os
EC 3h 12m os
α Persei
EC 3h 16m os

1865 Feb 24th Ill East
False start
EC 4h 10m 0s
γ Tauri AM
EC 4 13 0

EC 5h 4m 0s
α Aurigae ns
β Orionis
β Tauri
64 Camel B 3, 4, 5
β Leporis
EC 5h 23m 0s
EC 5h 39m 0s
κ Orionis
ψ' Draconis prec 1st wire bad
____ foll " "
α Orionis
β Aurigae
1 Geminorum
ν Orionis
40 Draconis SP ns
41 ____
κ Columbae
δ Urs Min 1 } 3 5
μ Geminorum }
β Canis Maj ____ } break before last wire
γ Geminorum
51 Cephei 1 } 3 4
ε Geminorum }
α Canis Maj
EC 6h 40 0
EC 6h 42 0 No 2
κ Canis Maj
β ____ short signal
ε Canis Maj –
γ ____ ns 2, 3, 4, 5
δ ____
7h 3m 0s

EC 7h 8m os

λ Geminorum
4 Urs Min B 2 3 4 5
η Canis Maj
a Geminorum prec 1 2 4
foll 1 3 5
a Can Min
* foll a Can Min (the brightest)
β Geminorum
ζ Argus
δ Cancri
λ Urs Min 3 5
15 Argus
β Cancri
η Cancri
EC 8h 26m os
1865 Feb, 25th M.E.

E 1 4 0
Polaris Ari 7d. ey last bk of 4 m,
E 1 14 0

E 1 57 0
α Arietis
E 2 0 0

E 2 52 0
α Ceti
E 2 56 0

E 3 12 0
α Persei
E 3 15 0

E 3 32 0
δ Persei
δ Eridani
E 3 38 0
E 4 10 0
γ Tauri
E 4 14 0

1865 Febr. 25th, M.T. contd

El. . . . . . .
ε Tauri
η Draconis sp
El 4 23 0
New Sheet No. 2.
El 4 25 0
α Tauri
Pi. IV. 182 ap.
50 Cephei H.
9 Camelopard.
7.8ᵐ 4 41 59.7 +1° 56.2 rather faint from haze
ι Aurigae
El 4 50 0
5.0ᵐ 4 51 2.2 +1 30.3
6.0 4 57 53.8 0 58.5
ε Leporis
6.5 5 4 17.2 +0 54.8
α Aurigae
β Orionis
El 5 9 0 Haze growing thicker.
El 6 26 0
γ Geminorum
ξ
α Canis majoris
μ
50 Draconis
γ Canis majoris
δ
4 Urs. min. B. 1.2.3.4. Ai. 2d.. Star faint
α Geminorum pr 135
foll 24
El 7 31 0
Cloudy

1865 Feb 27th Ill East

EC $1^h\ 4^m\ 0^s$

Polaris

EC $1^h\ 14^m\ 0^s$

EC ———

a Arietis

EC $2^h\ 0^m\ 0^s$

Chronograph oiled & Pendulum adjusted

EC $2^h\ 49^m\ 0^s$

β Urs Min SP

EC $2\ 52\ 0^s$

EC ———

a Persei ns

EC $3^h\ 16^m\ 0^s$

EC $3^h\ 30^m\ 0^s$

δ Persei

EC $3^h\ 38^m\ 0^s$

Adjustment of Pendulum

EC ———

μ Erid ns

EC $4^h\ 40^m\ 0^s$

EC ———

ι Aurigae

EC 4 49 0

EC 4 58 0

ε Leporis

a Aurigae

β Orionis

EC $5^h\ 9^m\ 0^s$

EC $5^h\ 15^m\ 0^s$

β Tauri

β Leporis

EC $5^h\ 23^m\ 0^s$

Chronograph works bad

1865 March 4, the East,

El 6 16 0
κ Geminorum
ε ——
δ Canis majoris
κ —— ——
~~Ot~~ ——
50 Draconis
ε Canis majoris
ψ —— ——
λ Geminorum
δ ——
η Canis majoris
λ Geminorum pr 2 4
foll 1 3 5

* prec Procyon
Procyon
* foll Procyon
* foll Procyon
Pollux
* prec * prec ζ Navis 1.2.3 ● 8m
* prec ζ Navis 1.2.3.4 ● 6m
ζ Navis Air 2a ● 4m½
λ Urs min B.M. ∧ ½ wt. to last 2 ths of wire 4.
Gr 1318 Air 2a
ξ Hydrae
El. 8 ..
new Sheet No 2
El 8 47 0
ι Ursae majoris
El 8 54 0

El 9 . .
1 Draconis tt
α Ursae majoris
El 9 25 0

El 9 44 0
π Leonis

1865 March 6th Ill East
EC 1h 3m 0s
Polaris unsteady AWC
EC 1h 14m 0s
EC 3h 12m 0s
α Persei
EC 3h 16m 0s
EC 4h 18m 0s
ε Tauri
α ——
EC 4h 30m 0s
J.M.S begins
EC 4 45 0
ι Aurigae
[illegible] Ai 2d.
α Aurigae
β Orionis
64 Camel B 2.3.4.5 Ai 2d
74 —— B
δ Orionis
α Leporis
ζ Orionis
EC 5 30 0
EC 5h 54m 0s AM
1 Geminorum
γ Orionis
EC 6h 1m 0s
EC 6h 9m 0s
40 Draconis SP
41 ——
κ Columbae .4.5.
δ Urs Min 1, 1 5
μ Geminorum
β Canis Maj
~~51 Cephei~~
γ Geminorum
51 Cephei H 1, 34
ε Geminorum
α Canis Maj
κ ——
θ ——
ε ——
γ ——
δ ——

moon I

AM

λ Geminorum
δ ———
4 Urs Min B 1? 2 3 . 5
1a Geminorum 1 3 5
2a G. ——— 2 4
α Can Min
* foll α Can Min
* foll ———
∠ β Geminorum
εC 7^h 38^m os
εC 7^h 42^m os
ζ Argus
β Cancri
∠ Im of δ Geminorum? HS
η ———
εC 8^h 26^m os
εC 8^h 34^m os
δ Cancri
ε Hydrae
εC 8^h 46^m 0s
εC 8^h 58^m os
κ Cancri
λ Argus
θ Hydrae
83 Cancri
1 Draconis
α Hydrae
εC 9^h 23^m os

1865 March 7th

E 4 55 0
[illegible] [illegible] op. Ari 2d
α Aurigae
β Orionis
[illegible] B. Ari 2d
♃ ———
E 5 23 0

Clouded while I was gone to tea

1865 March 8th All East

EC 23^h 10^m 0^s
236 Compared (first break rejected)
23^h 12^m 0^s – 23^h 13^m 0^s
EC 23^h 13^m 0^s

EC 8^h 6^m 0^s
η Cancri AM
ε Hydrae
EC 8^h 41^m 0^s
Moon I
236 Comp $9^h 4 – 9\frac{1}{2}^m$
EC 9^h 6^m 0^s
Very cloudy

1865 March 10th All East
EC 8^h 25^m 0^s
Cloudy
δ Cancri
ε Hydrae
η Cephei
6 Urs Maj
ι ———
76 Draconis
κ Cancri
λ Argus
θ Hydrae
83 Cancri
1 Draconis H.
θ Urs Maj? possibly no star at all
β Cephei 1 3 4 5 bad observation
Gr 1564
ο Leonis
ε ———
υ Urs Maj 3 4 5
μ Leonis
π ———
α ———
λ Hydrae
ζ Cephei
λ Urs Maj

1865 March 10th Ill East

γ Leonis prec 1 3 5 AM
foll 2 4
30 Camel H 2 3 4 5 "
μ Hydrae
ρ Leonis "
Moon I
193 Camel B "
l Leonis "
34 Cephei H. Sp "
α Urs Maj
χ Leonis unsteady
EC $10^h\ 57^m$ os

1865 March 13th Ill East

EC $4^h\ 20^m$ os AM
α Tauri
EC $4^h\ 29^m$ os "
Cloudy
EC $5^h\ 4^m$ os "
α Aurigae
β Orionis "
β Tauri
β Leporis
EC $5^h\ 23^m$ os
EC $6^h\ 10^m$ os
κ Columbae
δ Urs Min 1 2 3 5
μ Geminorum 3 4 5
β Canis Maj
γ Geminorum
51 Cephei H 1 2 3 4
ε Geminorum reject first wire
α Canis Maj faint 5 wire lost
κ
θ
Clouds

1865 March 13 Sll East (Continued)

γ Canis Majoris AM

δ

δ Geminorum "

δ

Clouds

α Geminorum prec 1 3 5 —

α Canis Min foll 2 4

* foll

β Geminorum

Clouds

EC 7^h 41^m os

1865 March 14^{th} IWE ~~[illegible]~~

E 4 20 0 JHS

α Tauri 1.2.4.5 [illegible] 5 flying clouds,

4 29 0

EC AM

α Aurigae "

β Orionis "

EC 5^h 9^m os

EC 5^h 16^m os "

β Tauri "

EC 5^h 23^m os "

EC 6 30 0 JHS again

ε Geminorum

EC 6 43 0

EC 7 2 0

Cloudy

EC 7 58 0

1865 March 17th All East

EC 4^h 26^m os
a Tauri , A.M.
EC 4^h 29^m os

EC 5^h 6^m os
a Aurigae
β Orionis
EC 5^h 9^m os
EC ————
β Tauri
EC 5^h 19^m os
EC 6^h 38^m os
a Canis Maj
EC 6^h 40^m os

Current broken some stars
observed but not on sheet

EC 7^h 30^m os No 2
a Canis Minoris AMr
*foll ————
β Geminorum
3 Argus.
λ Urs Min. SP. reject last break of 4 wire
χ Geminorum
β Cancri
Gr 1418. reject last break of second wire
ξ Cancri
o Cephei SP
Pi XX 257 SP ~~break~~ break before first wire
δ Cancri
ε Hydrae
ι Urs Maj — — AM
κ Cancri "
λ Argus
θ Hydrae. "
83 Cancri
a Cephei SP m1 "
a Hydrae
θ Urs Maj "
β Cephei SP as
Gr 1574 "
o Leonis

next page

1865 March 17th Ill East (Continued)

ε Leonis — — Am
μ ——
π —— Am
α Hydrae
EC 10 5 0

EC 10 7 0 No 3
λ Urs Maj
γ Leonis, 30 Camel H 1st wire lost
EC 10h 17m 0s

1865 March 18th Ill East

EC 5h 40m 0s Am
κ Orionis "
α —— "
θ Aurigae "
1 Geminorum "
ν Orionis "
η Geminorum "
40 Draconis "
41 ——
κ Columbae
δ Ursae min 1.2.3.5 Ari 2^a.
β Canis majoris
ν Geminorum
51 Cephei H 3.4 Ari 2^a
α Canis majoris
δ —— 3.4.5.
25 Camel H. Ari 2^a.
*prec α Canis minoris
α Canis minoris
*foll. α Canis minoris
*foll. α Canis minoris
β Geminorum
El 8 5 0.

New Sheet No. 2
Gr 1418 Ari 2^a.
El 8 18 0

1865 March 18th M.E continued

η Cancri A.M
ε Hydrae
Ec 8^h 41^m ol

1865 March 20th M East

- Ec 4^h 36^m ol
α Tauri A.M
Ec 4^h 29^m ol
Ec 5^h 6^m ol
α Aurigae clouds reject 4th wire
β Orionis
Ec 5^h 9^m ol
Ec 5^h 17^m ol
δ Tauri
(236 compared at 5^h 22^m ol – 5^h 23^m ol)
Ec 5^h 23^m ol
Ec 5^h 47^m 0°
α Orionis (M 1 2 – 5 wires
Ec 5^h 49^m ol

E/C δ [illegible] " " Sp. Air 2d WS.
Ec. 6 19 0
Ec 6 29 0
ζ Geminorum 2.3.4.5.
ε ——
Ec 6 46 0
Ec 17^h 15^m ol
64 Camel B sp am,
α Ophiuchi
β ——
μ Herculis
Ec 17^h 42^m ol
Light cirrus could not see moon culminating star
(in Naut Almanac)
Ec 18^h 30^m ol
α Lyrae
Ec 18^h 33^m ol
Clouds at time of Moons transit

1865 March 21st

EC 4 57 0
Capella
Rigel
β Tauri
EC 5 19 0 Clouded up

1865 March 23 Clearing off slowly.
EC 8 32 0
74 Draconis Sp., Ari 2d.
EC 8 42 0

EC. " " "
ζ Navis
EC 9 4 0

EC 9 10 0
83 Tauri 2.3.4.5
1 Drac H. Ari 2d.
α Hydrae
EC 9 22 0

EC 9 44 0
μ Leonis
π Leonis
α Leonis
λ Hydrae
λ Ursae majoris
γ Leonis prec.
μ Hydrae
ρ Leonis
Clouded up
EC 10 (43?) 0

1865 March 25th

EC 1 1 0
Polaris 2.3.5 Ari 2d flying clouds

EC 1 15 0

EC

EC 6 36 0
α Canis majoris
θ Canis majoris
23 Camel H

EC 7 30 0

EC 7^{h} 24^{m} 0^{s} No 2 AM
α Geminorum prec 3 Clouds
foll 12 45

Clouds
EC 7^{h} 39^{m} 0^{s}

EC 8^{h} 35^{m} 0^{s}
δ Cancri
EC 8^{h} 40^{m} 0^{s}
EC 8^{h} 48^{m} 0^{s}
ι Ma. Maj
EC 9^{h} 4^{m} 0^{s}

EC 9 7 0
83 Cancri
1 Draconis H, Ari 1
α Hydrae
119 Cephei B, Ari 2d

EC 9 30 0

EC 9 51 0
π Leonis
α Leonis
λ Ursae majoris
ψ Leonis pr
30 Camel H. Ari 2d
ρ Leonis
193 Camel B Ari 2d
34 Cephei H ″ ″
ψ Ursae majoris

EC 11 3 0
New Sheet No 3.

EC 11 5 0
δ Leonis
δ Crateris

Jour

1865 Mch 25th Ill East

11 Crateris
ε Corvi
202 Camel B 2.3.4.5 Air 2b
39 Cephei H m Air 2a
* Dec − 0° 3' very faint bad obs
γ Ursae majoris
β Corvi
β Virginis

EC 11 48 0
21h. EC Set back 1m

1865 March 27th Ill East

EC ———— AM
a Aurigae "
β Orionis "
EC 5h 8m os
β Tauri "
EC 5h 18m os
EC 5 46m 0s "
a Orionis
EC 5h 48m os "
EC 6h 13m os
β Canis Maj "
EC 6h 17m os "
EC 6h 56m os
γ Canis Maj "
25 Camel H
λ Geminorum "
4 Urs Min B 2 3 4 5 —
η Canis Maj "
a Gemin prec 1 3 5 —
foll 2 4 "
* foll a Canis Min "
β Geminorum
ζ Argus
λ Urs Min 1 γ 2 3 4 5 —
χ Geminorum
β Cancri
EC 7h 9m os

1865 March 27th J M East

EC 8^{h} 22^{m} os No 2

η Cancri AMr
Pi XX 257 false break before Mid wire
δ Cancri
ε Hydrae
ι Ursae Maj os 1 wire lost AMr
κ Cancri "
λ Argus
θ Hydrae "
+83 Cancri
1 Draconis H "
α Hydrae
119 Cephei B "
ο Leonis
ε ——— "
μ ———
π ——— "
α ———
+ λ Hydrae
γ Cephei SP "
A Urs Maj
γ Leonis fine os "
30 Camel H os reject 1 break [illegible] 4 wire
ω Hydrae os c4.5
ρ Leonis
193 Camel B reject break before 5 wire
EC 10^{h} 32^{m} os AMr
EC 10^{h} 40^{m} os "
l Leonis
34 Cephei H "
EC 10^{h} 49^{m} os
EC 10^{h} 54^{m} os "
α Urs Maj os
χ Leonis "
ψ Urs Maj
δ Leonis "
EC 11^{h} 7^{m} os

1865 March 28th Ill East
EC 5^h 46^m of
α Orionis AM
EC 5^h 48^m of
EC 6^h 13^m of "
μ Geminorum
β Canis Maj "
EC 6^h 17^m of
EC 6^h 56^m of "
γ Canis Maj "
25 Camel H
λ Geminorum "
δ ———
4 Urs Min B 2 3 4 5 "
α Geminorum prec 1 3 "
——— foll 2 4 5 "
α Canis Min
* foll ———
β Geminorum
ζ Argus "
λ Urs Min 1 2 5
χ Geminorum
ζ Argus seen but too faint to observe haze south
15 b Argus
EC 8^h 5^m of
Good seeing till after 2d wire λ Urs Min when a change came images unsteady
EC 8^h 59^m of
κ Cancri reject AM
λ Argus "
θ Hydrae 1st wire lost
1 Draconis H "
α Hydrae
119 Cephei B "
o Leonis
ε ———
μ ——— —Hit my head against micr screw (not hard)
π ———
α
γ Cephei
ζ
λ Urs Maj
EC 10^h 13^m of

1865 April 1st Ill. East

EC 1 3 0
Polaris 1.2.3 Mov'd
" 1 14 0

Reversed to Ill West

EC 5 38 0
α Orionis
α ___
EC 5 53 0 Clouded up

1865 April 3d Ill West
EC 7^h 3^m 0^s
Polaris AM
EC 7^h 14^m 0^s

EC 4^h 26^m 0^s
α Tauri read middle of fourth break
EC 4^h 28^m 0^s AM
EC 5^h 5^m 0^s
α Aurigae
β Orionis
β Tauri
EC 5^h 18^m 0^s

EC 5^h 42^m 0^s
No 236 Compared 5^h 45^m 10^s — 46^m 0^s
α Orionis
EC 5^h 48^m 0^s
EC 6^h 13^m 0^s
α Geminorum
β Canis Maj
EC 6^h 18^m 0^s
EC 6^h 38^m 0^s
α Canis Maj
EC 6^h 39^m 0^s

EC 7 6 0
λ Geminorum
δ ___
Castor foll 1.3.5
prec 2.4
Procyon
Pollux
Mova I
[illegible] 2.3.4.5 fig 2.
JHS

1865 April 3^d MW,

Ec 7 45 0
new Sheet No. 2
Ec 7 48 0
λ Urs Min 1 2 5 AMC
χ Geminorum "
15 Argus
β Cancri "
ι Ursae Majoris "
κ Cancri
λ Argus "
θ Hydrae
1 Draconis H "
α Hydrae
ο Leonis "
ε ~~————~~
α Leonis "

η Cancri
θ Cephei H
XX 257

Ec $10^h\ 2^m\ 0^s$
Ec $10^h\ 11^m\ 0^s$
30 Camel H 2 3 4 5 {false break before 3d wire
μ Hydrae
ρ Leonis
Ec $10^h\ 26^m\ 0^s$
Ec $10^h\ 40^m\ 0^s$
l Leonis
34 Cephei H
α Urs Maj
χ Leonis
ψ Urs Maj
δ Leonis
δ Crateris
τ Leonis (mean of two for first wire)
39 Cephei H 1 2 3 4
υ Leonis
Ec $11^h\ 31^m\ 0^s$

1865 April 4th M. W.

EC 1 3 0
Polaris Cir 2d.
" 1 14 0

EC 5 37 0
α Orionis
EC 5 48 0
EC 6 13 0
μ Geminorum
β Canis majoris
EC 6 18 0

EC 6 32 0

ε Geminorum
α Canis majoris 4.5
EC 6 39 0
EC 7 29 0
Procyon
+ foll. Procyon Middle of a close ~~pair~~ double,
Pollux
EC 7 41 0
7 42 0
ζ Argus
15h Camel B 4.5 Cir 2d.

J.W.S. attempted to observe Orion. No success.

× Geminorum. × — ~~[illegible]~~
15 Argus × —
β Cancri "
EC 8h 10m 0s New Sheet No 2
EC 8 22m 0s
η Cancri × — "
ο Cephei
Pi. XX 257
Moon I break before last wire
δ Cancri
ε hy Maj .. 1st wire lost
EC 8h 57m 0s

Clouded up

over

1865 Apr. 4th Ell W. cont. JHS again

Ec 12 14 0
γ Corvi
β —
Clouded again
Ec 13 5 0

Bradley 48 not visible Cloud.
γ Virginis ditto.

1865 April 5th Ell West

Ec 5^h 5^m os AM
α Aurigae
β Orionis "
β Tauri
Ec 5^h 18^m os "

Ec 5^h 46^m os "
α Orionis
Ec 5^h 48^m os "

Ec 6^h 13^m os "
μ Geminorum
β Canis Majoris 1st wire lost "
Ec 6^h 17^m os
"
34
Ec 6^h 24^m os
ε Geminorum "
α Canis Majoris
~~Ec~~ δ Canis majoris JHS begins here
Ec 7 4 0

Ec 7 8 0
κ Geminorum JHS
δ —— "
vii 67 "
η Canis majoris "
Procyon
Double star following Procyon
Pollux
JHS ends here
Pen filled
ζ Argus AM.

1865 April 5th Ill West (Continued)

λ Urs Min SP 1 — 5 AM
χ Geminorum
ζ Argus "
15 Argus
β Cancri "
Gr 1418 "
η Cancri
θ Cephei faint "
Pi XX 257 faint
δ Cancri "
ι Ursae Majoris
λ Argus very faint 1 2-5 reject
θ Hydrae
α Cephei faint "
α Hydrae "
Moon I
Gr 1564 "
ε Leonis
EC 9^{h} 39^{m} 0^{s} "

EC 9^{h} 43^{m} 0^{s} No 3 AM
ω Leonis
π Leonis "
α
λ Urs Majoris "
γ Leonis prec
30 Camel H "
μ Hydrae
ρ Leonis
193 Camel B Ill bad ny 45 entirely out after 3^{d} wire
ι Leonis AM
34 Cephei H "
Pen filled,
α Urs Maj "
χ Leonis
ψ Urs Maj "
δ Leonis
δ Craters reject clouds some wires lost
γ Craters faint
39 Cephei H 1^{st} wire only clouds
υ Leonis faint
χ Urs Maj
β Leonis
β Virginis
EC 9^{h} [illegible] 0^{s}

1865 April 8th W.M. Westcott

EC 1 5 0
Polaris 2.3.4.5 Air 2^b
" 1 14 0
New Sheet No. 2

EC 5 5 0
α Aurigae
β Orionis
δ Tauri
EC 5 $\overset{23}{22}$ 0

EC 5 39 0
α Orionis

EC 5 51 0

EC 8 19 0
η Cancri
δ
EC 8 37 0

EC 9^h 36^m 0^s AM
ε Leonis
μ — 1st wire lost break in circuit
π —
a — false breaks after (signal key adjusted)
λ Urs Maj
γ Leonis
μ Hydrae
ρ Leonis
EC 10^h 26^m 0^s
EC 10 40 0
l Leonis
EC 10 43 0
EC 10 52 ? 0
a Urs Maj
χ Leonis reject 4th wire
ψ Urs Maj
δ Leonis
δ Crateris
γ AM - Ends
τ Leonis J.H.S. begins
20z Camelop. B Air 2^b.
EC 11 45 0
New Sheet No 3
EC 11 28 0
γ Cephei Sp
χ Ursae majoris

1865 April 8th Ill W. wat.
β Leonis
Lunæ I
6202 Rml Sp 2,3.4,5 Aii Z^b.
ε Corvi
γ ——
η Virginis
EC 12 16 0

1865 April 8th (9th cwal)
EC wound at $22^h 10^m$ and south pendulum accidently hit with key which changed the vibration for a few minuts clock did not stop

1865 April 11th Ill W. clear for a short time
EC 0
μ Leonis
π ——
ι ——
EC 10 11 0
New Sheet No. 2
EC 10 12 0
30 Camel H Aii Z^b.
ρ Leonis
193 Camel Sp B Aii Z^a.
EC 10 31 0
Clouded again.

1865 April 12th Ill. W.
AW
EC ——
a Leonis reject first wire
EC 10^h 2^m 01
γ Leonis Jpre
30 Camel H
Partly cloudy
193 Camel B reject last wire and break before 2d
l Leonis faint clouds
EC 10^h 45^m 01
EC 10^h 54^m 01
χ Leonis 4th wire lost cloud
signal star lost by clouds
δ Leonis
δ Crateris - 1st & 2d wires only
γ EC 11^h 24^m 01

1865 April 13th Ill West

EC 5^h 4^m 0^s Alle
α Aurigae
β Orionis "
β Tauri
EC 5^h 20^m 0^s "

EC 5^h 46^m 0^s
α Orionis "
EC 5^h 48^m 0^s "

EC 6^h 34^m 0^s No 2
ε Geminorum "
α Canis Maj
EC 6^h [illegible] 0^s "

EC 7^h 0^m 0^s "
δ Canis Maj
EC 7^h 37 ~~4~~^{m} 0^s "
EC ______ "
+ δ Geminorum
EC 7^h 13^m 0^s "

EC 7^h 23^m 0^s "
α Geminorum Prec 1 3 (5 too soon a second way
foll 2 4 {passing ~~through~~)
α Canis Min
β Geminorum not recorded circuit broken
x ______
15 Argus
β Cancri 5th too soon
EC 8^h 10^m 0^s

EC ______
δ Cancri ns
EC 8^h 39^m 0^s
EC 9^h 0^m 0^s
λ Argus
θ Hydrae
1 Draconis H
α Hydrae
119 Cephei B
β ______ 2 breaks for first wire
+ Gr 1564.
EC 9^h 32^m 0^s

1865 April 13th Ill West (Continued)

EC 9h 42m os AMR
μ Leonis
π —— "
a —— "
3 Cephei SP "
γ Leonis
30 Camel H "
ω Hydrae
+ ρ Leonis "
EC 10h 26m os "

EC 10h 40m os No 3 "
+ l Leonis
34 Cephei H "
χ Leonis
ψ Urs Maj "
δ Leonis
δ Crateris "
γ ——
τ Leonis "
39 Cephei H 1 2 3 4 "
ν Leonis
γ Cephei "
χ Urs Maj
β Leonis "
β Virginis
309 Cephei B 12, 5 "
π Virginis
ε Corvi "
+ γη Virginis "
γ Cor-bor
EC 12h 21m os "
EC 12h 32 os "
γ Virginis prec
EC 12h 36m os "
EC 12h 46 os
δ Virginis "
12 Canum prec "
EC 12h 51m os "

next page

1865 April 13th Ill West (Continued)

EC 13h 2m os AM
α Urs Min Sp. just at 1st break of 2d wire
β Comae Ber between 1st & 2d wires of above
α Virginis
EC 13h 18m os

EC 1h 4m os
α Urs Min unsteady
EC 1h 15m os

Th

1865 Apr 14 Ill West

EC 5 44 0
α Orionis
5 49? 0

EC 6 12 0
μ Gemin.
β Canis maj 2.3.4.5
EC 6 17 0

EC 6 31 0
ε Geminorum
α Canis majoris
EC 6 40 0

U. .. —

ζ Argus 2.3.4.5
EC 9 3 0
+ EC 9 6 0
θ Hydrae
1 Draconis 11. 2.3.4.5 Ari 2d.
α Hydrae
θ Ursae majoris
EC 9 31 0

EC 9 41 0.
+ μ Leonis
+ 11
α Leonis
30 Camel H [illegible] Ari 2a

1865 Apr 14th Mr. West cont.

EC 10 20 0

EC 11 0 0
ψ Ursae majoris
δ Crateris
ψ —
τ Leonis
υ —
γ Cephei Sup.
β Leonis
β Virginis
EC 11 54 0
New Sheet No. 2
π Virginis
EC 11 57 0
Groombridge

EC 12 11 0
η Virginis
γ Comae Berenices
β Corvi
EC 12 28 0
EC 12 46 0
δ Virginis
β Comae
Polaris etc 2a
α Virginis
EC 13 20 0

1865 April 16th Mr W.

EC 11 1 30
Mr Polaris etc 2d 2115

April 17 || " 11 40
EC 5h 4m 0s
α Aurigae Mr
β Orionis
β Tauri "
EC 5h 18m 0s
EC 5h 46m 0s
α Orionis
EC 5h 50m 0s.

1865 April 17th Ill West (Continued)

AM

EC 6h 14m of
β Canis Maj
EC 6h 19m of

EC 6h 34m of Nv 2
ε Geminorum
α Canis Majoris
EC 6h 40m of

EC 7 ————
EC 7h 20m of
α ~~Canis~~ Geminorum prec 1 3 5 –
α ———— foll 2 4
α Canis minoris
β Geminorum
EC 7h 44m of

EC ————
η Cancri
EC 8h 25m of

EC 8 35 0
δ Cancri
EC 8 38 0
EC 9 0m of
λ Argus
83 Cancri
1 Draconis H
α Hydrae
θ Ursae Maj
β Cephei
EC 9h 28m of
EC 9 58 0
α Leonis
3 Cephei SP
γ Leonis prec
30 Camel H
μ Hydrae
193 Camel B
34 Cephei H
EC 10h 49m of

1865 April 17th SMW cont
EC 11h 0m 01
ψ Urs Maj
+ EC 11h 3m 01

EC 11h 10m 01 No 3

+ δ Crateris
+ γ Crateris
τ Leonis
39 Cephei H 1 2 3 4
ν Leonis
ν Cephei
χ Urs Maj
β Leonis
β Virginis
6 Zod Rad 2 3 4 5 —
π Virginis
ε Corvi
η Virginis
γ Corvi
EC 12h 21m 01

El 12 33 0
γ Virginis pr 1.3.5 F.H.S begins
foll 2.4.
El 12 36 0

El 12 46 0
γ [illegible] "
12 [illegible] pr. 2.3.4.5 "
foll. all wires "
El 12 52 0

El 13 3 0
Polaris wire 1 Sw 2d.
β Comae Berenices
Polaris wires 2.3.4.5.
α Virginis
2 [illegible] Comet B Sw 2d star faint

El 13 24 0
EC 18h 42m 01
β Cygni Alb
EC 18 56m 01

1865 April 18th

El 7 34 0
β Geminorum just cleared up in part

El 7 47 0 (Cloudy till after 8h.)

El 9 19 0
119 Cephei B Air 2b.

El. 9 29 0

El 9 59 0
ζ Cephei sp
γ Leonis Clouds in north — so could not be
μ Hydrae

El 10 21 0

El 11 15 0
τ Leonis
υ Leonis
χ Ursae majoris
δ Leonis
β Virginis
6202 Radcliffe Sp.
π Virginis
ε Corvi
η Virginis
γ Comae Berenices

El 12 28 0

El 12 45 0
γ Cassiopeiae sp

El 12 49 0

New Sheet No 2.

El 13 2 0
Polaris min 1 Air 2a
β Comae Berenices
Polaris min 2.3.4.5. Air 2a.
ε Virginis

El 13 21 0

Ec 20h 24m 0s
Moon II

Ec 20h 28m 0s

9?

1865 Apr 18th

♃ 13 $^{1?}$ 2 0
Robinson's Arc 2'' was 2 only
Gave up the observation seeing bad
and hazy.
The star was not at first visible

♃ 13 go

1865 April 19th Ill West

EC 5^h 4^m 0^s AM
α Aurigae
β Orionis "
Leveled b = −0^{s}30 EC 5^h 18^m 0^s
EC 5^h 46^m 0^s
α Orionis
MC Compared 4^h 1^m 0^s-10^s-20^s-30^s
EC 5^h 54^m 0^s

EC 6 14^m 0^s
β Canis Maj faint and unsteady
EC 6^h 18^m 0^s

EC 6^h 34^m 0^s
+ ε Geminorum,
α Canis Maj
EC 6^h 40^m 0^s

EC 7^h 24^m 0^s
α Geminorum prec 1 3 5 -
foll 2 4
α Canis Maj
β Geminorum
EC 7^h 38^m 0^s
EC 9^h 10^m 0^s
83 Cancri
1 Draconis ++
α Hydrae
θ Ursae Maj.
not prec

1865 April 19th Ill Wr (Continued

6.2	9 25	13.0	+2 31.0		JAS
8.3	27	25.9	1 18.3	very faint	"
7.2	30	14.5	2 20.7		"
ξ Leonis					"
5.6	9 38	54.5	+2 27.1		"
μ Leonis					
7.4	9 47	7.5	+1 37.6		"

EC 9 49 0

New Sheet No. 2,

EC 9 52 0

π Leonis   JAS. ends here

+ γ Leonis   AM

+ ω Hydrae 1 2 3

Stars hidden by clouds along here "

EC 10h 20m 0s "

EC 11h 15m 0s "

τ Leonis clouds 1 2 3 4

39 Cephei H

+ χ Ursae Maj

β Leonis

β Virginis

Very cloudy

12h 54m 0s

1865 April 24th Sth West

EC 5h 4m 0s   AM

β Orionis

β Tauri

EC 5h 18m 0s

EC 5h 46m 0s.

α Orionis

MC Compared 3h 41m 0s 10s 20s

EC 5h 53m 0s

EC 6h 14m 0s

+ β Canis Maj

EC 6h 17m 0s

1865 April 24th Ill West (Continued)

AMC

EC

α Canis Maj

EC 6h 40m 0s

EC 7h 0m 0s

δ Canis Maj

EC 7h 5m 0s

EC 7h 16m 0s

α Geminorum prec 1 3 5
foll 2 4

α Canis Maj

β Geminorum reject 4th wire

ζ Argus

EC 7h 44m 0s

EC 8h 6m 0s

β Cancri

EC 8h 10m 0s

EC 9h 58m 0s

α Leonis

ζ Cephei faint

30 Camel H

+ 193 Camel B

EC 10h 31m 0s

EC 10h 44m 0s No 2

34 Cephei H

EC 10h 49m 0s

EC

τ Leonis

39 Cephei H 1 2 3 4

ν Leonis

γ Cephei

EC 11h 35m 0s

β Leonis

β Virginis

+ 1202 B

γ Urs Maj 0s next page

1865 April 24th Ill West (Continued)

π Virginis AM
ε Corvi
EC 12^h 4^m os "
EC 12^h 11^m os "
η Virginis
γ Coronae "
β Corvi
EC 12^h 28^m os "
EC 12^h 46^m os "
δ Virginis
12 Canum prec "
foll
EC 12^h 57^m os "

EC 13^h 0^m os "
Polaris SP 1st wire
β Comae "
Polaris SP 2 3 4 5 — good seeing "
α Virginis
EC 13^h 19^m os "

EC 1^h 2^m os "
Polaris • unsteady —
EC 1^h 15^m os "

1865 April 25th Ill West

EC 5^h 46^m os AM
α Orionis
EC 5^h 48^m os "

EC ——————— "
β Canis Maj
EC 6^h 17^m os "

EC ———————
α Canis Maj 2 3 4 5 "
EC 6^h 30^m os "

1865 April 25th Ill West (Continued)

EC 6h 59m os AM

δ Canis Maj

EC 7h 4m os "

EC 7h 24m os "

a Geminorum prec 1 3 5

foll 2 4 "

EC 7h 27m os

EC 7 31m os "

a Canis Min

β Geminorum "

EC 7h 38m os No 2 new sheet "

EC 8h 6m os "

+ β Cancri

EC 8h 10m os "

EC 9h 10m os "

1 Draconis H

a Hydrae "

θ Ursae Maj.

+ β Cephei SP "

EC 9h 28m os "

EC 9h 58m os

a Leonis

+ ζ Cephei

+ 30 Camel H

EC 10h 16m os

EC ______

193 Camel B

EC 10h 32m os

EC 10h 44m os

+ 34 Cephei H

EC 10h 49m os

EC ______

39 Cephei H

ν Leonis

+ γ Cepheus

β Leonis

β Virginis

6202 Rad

next page

1865 April 25th Ill West (Continued)

γ Urs Maj ut Alm

ε Corvi

η Virginis faint clouds "

~~Clouds~~

EC 12^{h} 21^{m} os "

EC 13^{h} 3^{m} os

Polaris SP {clouds reject second & fifth 3d lost}

α Virginis

EC 13^{h} 21^{m} os "

"

1865 April 26th Ill West Alln

EC 5^{h} 45^{m} os "

α Orionis

EC 5^{h} 49^{m} os "

EC 6^{h} 38^{m} os "

α Canis Maj

EC 6^{h} 40^{m} os "

EC 7^{h} 24^{m} os "

α Geminorum prec 1 3 5 foll 2 4

α Canis Min "

β Geminorum "

EC 7^{h} 38^{m} os

EC "

1 Draconis H

α Hydrae "

α Urs Maj

EC 9^{h} 25^{m} os "

EC 9^{h} 58^{m} os

α Leonis "

30 Camel H

EC 10^{h} 16^{m} os "

1865 May 1st AM. East.

EC – · · –
Polaris 2.3.4.5 Ser 2d.
EC 140

1865 May 3d AM East AM
EC 9h 52m 01
Moon I .3.4.5. "
a Leonis
EC 10h 2m 01 "
EC ———
34 Cephei H 2 3 4 5 – "
EC 10h 50m 01
EC 10h 56m 01 "
χ Leonis "
EC 11h 0m 01
EC 11h 4m 01 "
δ Leonis
EC 11h 8m 01 No 2 "
EC ——— "
τ Leonis
EC 11h 23m 01 "
39 Cephei H 1.2.3.4
υ Leonis "
β Leonis lost. bad circuit
β Virginis "
γ Urs Maj
π Virginis ,
ε Corvi
η Virginis "
+ γ Coronae "
β Corvi
EC 12h 28m 01 "
EC 12h 48m 01
δ Virginis "
EC 12h 50m 01
EC 13h 2m 01 "
Polaris 1st
β Comae 2 3 4 5 – "
Polaris 2 3 4 5 –
1 Centauri ——— faint (next page) "

1865 May 3d Ill East (Continued)

α Virginis Am
EC 13h 20m os
EC 13h 40m os 〃
η Urs Maj
η Bootis 〃
τ Virginis
θ Centauri —
24 Urs Min B
α Bootis —
EC 14h 10m os
EC 14h 24m os —
ρ Bootis
σ 〃
EC 14h 29m os
EC 1h 4m os 〃
Polaris
EC 1h 14m os 〃

1865 May 9th Ill E

E6 1 1 0
Polaris Air 2 6
El. 1 15 0 PHS

1865 May 10th Ill E.

E 7 24 0
Castor foll 135 PHS
pr 24
Procyon
E6 7 33 0
E6 9 57 0
α Leonis
γ Leonis pr.
30 Cancri Air 2
El 10 16 0
δ Leonis
El 10 59 0
El 11 28 0
υ Leonis
γ Cephei below pole

1865 May 10th Ill East.

β Leonis
β Virginis
Radcliffe 6202 sp. Ari 2^b.
π Virginis
New star 2027 Carrel B   12 4 .. +7°31' NPD   Groombridge 1858 Ari 2^a,
η Virginis
β Corvi
Ec 12 28 0
Ec 12 47 0
δ Virginis
Ec 13 10 0   clouded before Polaris

1865 May 12th Ill East

Ec 13h 3m 0s

Polaris 1 2 3 4   AMc
1 Centauri
Polaris 5th wire   Pen going bad
a Virginis
Ec 13h 25m 0s

1865 May 13th Ill East

Ec 7h 24m 0s
a Geminorum prec
foll 1 2 3 4 5   AMc
a Canis Min   "
β Geminorum ―――――― JRS

Ec 11 16 0   hurried as 2 hrs. was too early
τ Leonis
1865 Aug 9 reexamined   2027 Carrel B 2.3.4.5 (Reject 2. rather)
ω Leonis
ψ Cephei sp. Ari 2^b.
Ec 11 35 0
New Sheet No. 2
Ec 11 39 0
β Virginis
Rdcl. 6202 sp. Ari 2^a

Tu

1865 May 13 Continued

π Virginis
Σ 1604 2.3.4.5
207 Lamd 13 Groombridge 1858 (see May 10) 2.3.4.5 Air 2d.
η Virginis
EL 12 16 0

EL 13 3 0
Polaris 4 Air 2a 1.2.3.4
ι Centauri
Polaris 5.
θ Virginis
219 Camelop. B 2745 probably
EL 13 23 0

1865 May 15th All East
EC 7h 24m 0s AM
α Geminorum pr. coll 1 2 3 4 5 (4th bad)
α Canis Minoris
β Geminorum
236 Compared 7h 40m 0s – 10m 20s
EC 7h 40m 0s
EC 9h 18m 0s? (19) AM
α Hydrae
EC 9h 22m 0s
EC 9h 58m 0s
α Leonis
EC 10h 2m 0s

EC 11h 19m 0s
τ Leonis
39 Cephei H sp 1 2 3 4
υ Leonis
β ———
β Virginis
γ Ursae Maj
γ π Virginis
ε Corvi
207 Lamd 13 Gr 1858 see may 13th (Good seeing)
EC 12h 6m 0s

T IV

1865 May 15th Ill East (Continued)

EC 12^h 11^m os Alle
η Virginis
+ γ Coronae
+ β Corvi
EC 12^h 28^m os

EC ——————
δ Virginis
EC 12^h 30^m os

EC 13^h 3^m os
Polaris 1 2 3 4,,5
ι Centauri ——————
a Virginis
214 Camel B 2 3 4 5
EC 13^h 23^m os
EC ——————
η Urs Maj
EC 13^h 43^m os .4.5 (reject?),

EC 13^h 47^m os
η Bootis
ζ Virginis
θ Centauri
a Bootis
EC 14^h 11^m os

EC 14^h 26^m os
6 Bootis
EC 14^h 30^m os

EC 14 42^m os
1a Librae
2a —————— 2a above wire (h
EC 14 44^m os

1865 Aug 9 Ended
1865 Aug 11th Commenced

1865 May 16th Ill East

EC 1^h 2^m os
Polaris
EC 1^h 13^m os

1865 May 17th JME.

EC 6^h 37^m os

a Canis Maj clouds 3 4 5 –

EC 6^h 41^m os

EC 7^h 24^m os

a Geminorum prec 1 3 5 –
foll 2 4

a Canis Min

β Geminorum

EC 7^h 38^m os

1865 May 18th JME. Cleared partially THS

υ Leonis

EC 11 31 0

β Leonis

β Virginis

207 Camel B (see May 15th)

Strp. 101 = Rmk 2825 } Double star preceding rather faint
— 2827 } AR $12^h 40^m$ PD + 9° 7'

η Virginis

γ —— pr. 2.4 }
foll. 1.3.5 }

Camelop. 211 B. 2.3.4.5 12 41 PD + 838

3 32 Camel H. 2 3.4 } pr
2 3.4 } foll wires intervened
12 46 PD + 552

43 Cephei Hass 2.3.4.5 dir 2a

EC 12 55 0

EC

Polaris op dir 2a

EC 13 15 0

New Sheet No. 2

EC 13 17 0

α Virginis

EC

α Boötis

EC 14 10 0

EC 14 40 0

2a Librae

EC 14 50 0

1865 May 18th Ill. E. cont. WB

EC 15 28 0
ε Coronae
ε Serpentis
EC 15 39 0

1865 May 23d Ill West

EC ————
β Leonis
β Virginis
γ Urs Maj
η Virginis
a Corvi reject last wire
+ ε Corvi
207 Camel B 1st lost reject 3d
2 H Camm
+ γ Virginis
12 Comae
13 ————
14 ————
17 ————
5 H Camm
δ Virginis
60 B Camm
30 Comae
31 ———— δ Virg
43 Cephei H SP 3 4 5
14 Camm
EC 13th om ot
θ Virginis GWB
Polaris Air 2d. "
ι Virginis "
214 Camel Bop 2.3.4.5 Air 2d Star faint "
h Virginis "
a Virginis "
17 H Camm "
25 ———— "
Cloudy in south 21 H ———— "

1865 May 23^d Wed. THS cont.

η Bootis nm 1. Cloudy.

Mid-wire is crooked, on account of the very damp weather.

α Bootis AM
236 Compound $14^h 15^m 0^s$ 10^s 20^s
EC $14^h 14^m 0^s$
Mid-wire straight in evening
EC 1 2 0
Polaris
EL 1 15 0

1865 May 24^th.

EL 9 14 0
Cloudy when α Hydrae passed
EC 9 26 0
EC 9 35 0
ε Leonis
—
EL 9 46 0
EC 10 0 0
α Leonis
EC 10.3 0?

EL 11 19 0
ξ Leonis
39 Cephei H Air 2^d Star faint
ν Leonis
ψ Cephei
β Leonis
β Virginis
EC 11 45 0
EL 11 53 0
π Virginis
" 11 55 0

EL 11 59 0
α Corvi
207 Camelop B Air 2^a
258 Cancri 3.4.5
[illegible]

1865 May 24th Ill W. continued

12 Comae
13 ——
14 ——
16 ——
17 ——
14 Draconis
54 Canum
24 Comae prec. }
—— foll }
60 B Canum
9 Cassiopejae sp
30 Comae
31 ——
32 Camel H pr
—— foll
Polaris sp Air 2a,
α Virginis
24 Camel B Air 2a
EC 13 24 0

EC 13 52 0
ζ Virginis
EC 13 58 0

EC 14 7 0
α Bootis
" 14 13 0

1865 May 25th Ill West

EC 10h 0m os AM
a Leonis
EC 10h 2m os

EC 11h 20m os
τ Leonis
EC 11h 22m os

EC 11h 40m os
β Leonis
β Virginis
γ Urs Maj.

see next page

1865 May 25th All West (Continued)

AM

π Virginis
α Comae
207 Camel B
2 H Canum
γ Virginis
12 Comae
13 ——
14 ——
* prec 17 Comae 17 —— 3 . 4.5
4 Draconis
5 H Canum
24 Comae foll
ϱ ζ Virginis
60 B Canum
γ Cassiopeae SP
30 Comae
31 ——
δ Virginis
43 Cephei H SP 3 . 4.5
15 Canum
17 ——
Polaris s/p 2 3 4, 5
ι Centauri
α Virginis
214 Camel B faint 2. 3. 4 5
69 H Ursae
h Virginis
o Virginis 2 3 4 5
17 H Canum
25 Canum
1 H Bootis
i Centauri 2, 3, 4, 5 bad obs
21 H Canum
ω Cassiopeae SP
~~θ Centauri~~ ← i Draconis
EC 14h om os

1865 May 25th Ill West (Continued)

EC 14h 8m os

AM

α Bootis
A ——
18 H ——
ξ ——
——
σ Bootis
π —— prec
109 Virginis
1 α Libræ 1 2 3 4
2 α —— 2 3 4 5 –
~~3 Bootis~~ ?
Gr 680 SP
γ Scorpii
ω Bootis
ψ Bootis
223 Camel B 3 4 5 –

EC 15h 2m os

EC 1h 2m os
Polaris
EC 1h 15m os

1865 May 26th Ill West

EC 7h 24m os
α Geminorum prec 1 3 5 –
foll 2 4
α Canis Min
β Geminorum
236 Compared 7h 40m 0s – 10s – 20s
7h 39m os
EC 11h 40m os
β Leonis
β Virginis 3 4 5 – {break before 3d
π ——
α Corvi
ε ——

next page

1865 May 26th All West (Contin)

207 Camel B
2 H Canum
12 Comae
13 ——
14 ——
17 ——
4 Draconis
5 H Canum
24 Comae prec & foll
ρ δ Virginis
60 B Canum
η Cassiopeae very faint ms

E C 12^h 42^m os

E C 12^h 45^m os No 2
32 Camel H sp / foll } MHS | Air 2d
43 Cephei H sp 2.3.4.5 / MHS
θ Virginis / MHS
Polaris sp Air 2d ''
ι Virginis ''
21 H Camel B Air 2d MHS ends here

69 H Ursae 3 4 5 AM
χ Virginis
o ——
17 H Canum
25 — Canum
1 H Bootis
21 H Canum reject 1st wire
ω Cassiopeae
i Draconis
A Cassiopeae
* NPD − 16° 37′
42 H Virginis
a Bootis
A ——

1865 May 26th (Continued) Ill West

18 Bootis
ζ ——
——
π Bootis prec 1 3 5 —
foll 2 4
109 Virginis
1a Libræ 1 2 3 4
2a —— 2 3 4 5 —
ζ Bootis
Sm 580 SP
40 Bootis
ω Bootis
223 Camel B

EC 15h 2m os

1865 Aug 11th Ended

1865 May 29th Ill West
EC 11h 41m os
β Leonis
β Virginis
γ Ursæ Maj } Pen did not mark

Polaris wire 1. GTHS.
EC 1 6 0
Polaris wires 2.3.4.5 Aw 2a.
EC 1 15 0

1865 May 31th
EC 12 17 0 J.H.S.
17 Comae
4 Draconis
54 Canum
24 Comae pr
—— foll
9 Virginis
10 B Canum
4 Cassiopejae sp.
30 Comae
31 Comae
32 Camel H pr
—— foll

over

1865 May 30$^{\text{Tu}}$ IMW. cont.

43 Cephei Hyp. 2.3.4.5
14 Canum.
Polaris Sp. Ai 2^{a}. half wt. to 2 last breaks of wire 2
accidental break before 5th w.
α Centauri between 4th and 5th w. of Polaris
α Virginis
214 Camel B — 2.3.4.5 Ai 2^{a}.
Cl 13 24 0

Cl 14 18 0
σ Bootis
Σ ——
α¹ Librae 1.2.3.4
α² —— 2.3.4.5.
223 Camel B. Ai 2^{a}.
Cl 15 16 0

Cl 15 27 0
α Coronae
Cl 15 30 ●

Polaris too faint in the morning – thick haze

1865 May 31$^{\text{W}}$.

Cl 12 56 0

Polaris Sp. Ai 2^{b}. (image ill-defined)
α Virginis
{ 214 Camel B 2.3.4., Ai 2^{b}. 1 and 5 lost by faintness of *
ζ Virginis
25 Canum 2.3.4.5
14. Bootis
ι Centauri 4.5 XI
2043 Groombr
12 Canum
Cl 15 11 0

1865 June 1st

Ec 12 11 0
12 Comae
13 ——
14 ——
16 ——
17 ——
4 Draconis
5 H Canum
24 Comae pr }
—— foll }
γ Virginis pr 1.3.5 }
—— foll 2.4. }
30 Comae
31 ——
32 Camel H pr 1.2.3.4 } Ari 2.a
—— foll 1.2.3.4 }
~~43~~ 13 Ceph. H. 2.3.4.5 Ari 2.a
~~[illegible]~~ ε Virginis
14 Canum
~~Polaris~~ θ Virginis
β Comae 2345 betw. 1 and 2 of Polaris
Polaris Ari 2d.
τ Virginis
Ec 13 19 0

Ec 14 2 0
42 H. Virginis
α Bootis
A ——
18 H Bootis nota foll.
ξ pr f. Bootis
f Bootis
o ——
σ ——
π —— praeced.
109 Virginis
α¹ Librae 1.2.3.4
α² —— 2.3.4.5
Ec 14 47 0

8.8
8.6
16.4
9.2

1865 June 2d. Ul West.

Sl. 12 4 0

24 Canum
η Virginis
12 Comae
13 —
14 —
16 —
17 —
4 Draconis
5 H Canum
24 Comae prec. }
— foll. }
Sl 12 30 0
new Sheet No. 2.
Sl 12 34 0
ζ Virginis
6 a 13 Canum
η Cassiopeiae sp.
30 Comae
31 —
32 Camel H. pr. } Ari 2b.
— foll. }
θ Virginis
Polaris sp. Ari 2b.
[illegible] Virginis
214 Camel B Ari 2a.
κ Virginis
ι —
17 H Canum
25 —
~~11 H Bootis~~
ι Centauri
21 H Canum
ω Cassiopeiae sp.
ι Draconis
A Cassiopeiae sp.
θ Centauri
Sl - - - 0
Pen not drawn back — Pen filled – Chronograph not stopped
Sl 14 7 0
α Bootis
Sl 14 11 0

1865 June 2^d 24 W cont.

Eℓ 14 41 0
α^1 Librae 1.2.3.4
α^2 —— 2.3.4.5
ξ Bootis folls.
Gr 580 sp Ari 2^a.
E 14 53 0

1865 June 3^d 24 W.

El. 10 10 0
γ Leonis pr.
" 10 14 0

El 12 44 0
32 Camel H. pr. }
—— foll }
14 Canum
θ Virginis
Polaris sp Ari 2^a
α Virginis
214 Camel B Ari 2^a
69 H Ursae
h Virginis
o ——
17 H Canum
25 ——
1 H Bootis
i Centauri 3.4.5 *
21 H Canum
ω Cassiopeiae sp
i Draconis
A Cassiopeiae sp.
θ Centauri
$14^h 0^m 58^s$ - 26 34
42 H Virginis
α Bootis
A ——
78 H ——
o ——
σ ——
α^1 Librae
α^2 ——

over

1865 June 3d 2UW continued

Gr: 580 sp. Air 2a.
223 Camelop B ★ 2345. Air 2d.
49 Cephei H, sp.
E 15 5 0

E 15 26 0

α Coronae
α Serpentis
E 15 41 0

1865 June 5th 2UW Cleared partially

E 13 6 0
Polaris sp 2.3.4.5. Air 2d.
α Virginis
E 13 20 0

E 13 29 0
25 Canum
1 H Bootis
i Centauri

21 H Canum
Wh α Cassiopejae 2345
i Draconis
A Cassiopejae
42 H Virginis L ★ θ Centauri 14 0 58 − 16°37'
α Bootis
A Bootis
Moon I
f. Bootis
ρ —— 2345
σ ——
π —— prd.
~~H 71~~
E Bootis
E ---- 0

1865 June 6th 2UW

E.
α Leonis
E 10 2 0

next page

1865 June 6th W.

Ec 10 11 11
γ Leonis sp
" 10 14 0

Ec 12 37 0
η Cassiopeiae sp
30 ~~Comae~~
31 ~~Comae~~
32 Camelop. H Ari 2^{a}
Ec 12 55 0

Ec 12 59 0
Polaris 1.3.4.5
ζ Virginis
Ec 13 20 0

ε Bootis

Students came
Seniors 1st div.

Ec 14 27 0

Ec 15 27 0
α Coronae
Chr. ran down
Ec 15 36 0
α Serpentis
Ec 15 39 0

1865 June 7th W

Ec 12 8 0
η Virginis
12 Comae 2.3.4.5
13 ——
4 Draconis
γ Virginis by Miss Bond.
30 Comae
31 C——
ε Virginis
θ Virginis
Polaris by Ari 2^{a}.
α Virginis
Ec 13 19 0 IInd. div. Seniors.

| Clouded up, after they had

1865 June 8th JW.

Cl 10 0 0
α Leonis
γ —— pr
Cl 10 14 0

Cl 12 35 0
30 Comae
31 ——
43 Cephei Hep. Ai Z^{a}
ε Virginis by H.P.T. (as usual)
17 Comae
θ Virginis
Polaris sp. Ai Z^{a} 3d and 4th wires some break lost by trouble with key.
α Virginis
Cl 13 21 0
Students III.d division of Senior Class.

1865 June 12th JW.

Polaris 3.4.5 Ai Z^{a}
Cl 13 20 0

Cl 13 22 0
h Virginis
a ——
17 H Canum
25 Canum
1 H. Bootis
i Centauri
+ prec 21 H Canum
24 H Canum

Cl 13 52 0
τ Virginis
θ Centauri
42 H Virginis
α Bootis
λ Bootis
18 H Bootis
Cl 14 17 0

1865 June 12th W.W. ants

EC 14 59 0
Dec. rad down

~~EC~~ · · ·
β Librae

EC 15 10 0

EC 15 17 0
μ Bootis
γ Ursae minoris
α Coronae
α Serpentis
EC 15 39 0
1865 June 13th W.W.

EC 9 57 0
α Leonis
EC 10 1 0

E " " "
γ Leonis ?
EC 10 13 0
Cloudy
EC 13 32 0
ι Centauri
21 H Canum
Cloudy in N.
EC 13 51 0
New Sheet No 2

EC 13 53 0
θ Centauri
52 H Virginis
EC 14 6 0
EC
ι Bootis
f Bootis
π ——— pr.
109 Virginis
α¹ Librae
α² ——— 3. 4. 5
ξ Bootis
ω ———
EC 14 59 0
down

W

1865 June 13 cont.
EC 15h 25m 0
a Coronae
a Serpentis
EC 15h 40m 0

1865 June 19th Ill west

EC 9h 58m 0s
a Leonis
236 compared 10h 2m 0s. 10s 20s
EC 10h 3m 0s

EC 13h 3m 0s
Polaris 3 P
a Virginis ns
25 Canum
21 H Canum .3 .4 .5
40 Cassiopeiae
i Draconis
EC 13h 57m 0s

EC 13h 57m 0s
* NPD —
42 H Virginis
a Bootis
A ——
18 H ——
ρ ——
o ~~——~~
σ ——
π —— reject 5th wire
109 Virginis
1 a Librae 1 2 3 4
2 a Librae 2 3 4 5 —
3 Bootis
Gr 580
40 Bootis
ω Bootis
223 Camel B
EC 16h 4m 00 Students

1865 June 20th Ill West

EC 9h 58m 0s
a Leonis AM
236 Compared 10h 2m 0s 10s 20s
EC 10h 2m 0s

EC 12h 0m 0s

EC 12 46 0
δ Virginis T.H.S
ε Virginis Miss Bond
Polaris up Ari 1.7 H.S
o Virginis
EC 13 19 0
EC 13 21 0
17 H Camm ——
25 ——
1 H Bootis
Cassiopeiae N.
14 0 58 — 16 37 up
a Bootis
A ——
18H ——
f ——
o ——
σ ——
π ——
109 Virginis
Cloudy —
ξ Bootis 1.2.3 Cloudy
Clouded up
EC 14 59 0

1865 June 21st Ill West
EC ——
20 Urs Min B 3 45 AM
EC 14h 6m 0s
a Bootis
A ——
18H ——
θ Bootis
Gr 527

next page

1865 June 21st Ill West

π Bootis prec 2 4
foll 1 3 5

109 Virginis
1a Librae 1 2 3
2a 1 2 3 4 5 reject 1st
3 Bootis
~~3 Bootis~~ 40 Bootis
EC 14 55 0
new Sheet No 2,
EC 14 57 0
223 Camel B break before last wire
48 Cephei H clouds 5th wire lost
δ Bootis 2 3 4 5
5 Serpentis
Clouds! Clouds!
θ Coronae
a Serpentis reject 3d wire
B
Stars along here seen by glimpses
too cloudy for observing
EC 15h 50m 0s

1865 June 22d Ill West

EC 1h 4m 0s
Polaris 1st wire lost & ink failed
EC 1h 15m 0s

1865 June 23d Ill West

Polaris S.P. 4.5. AM
EC 13 15 0
a Virginis
Stars along here to 21 H Camelop
invisible

1865 June 23d Ill West (continued)

η Bootis 1 2 3 4 5
τ Virginis 1 2 3 4 5
θ Centauri 1 2 3 4 5
α Draconis 4 5 Miss Bond
Am
324 Virginis
a Bootis
d —— 2, 3, 4, 5
18[illegible] Bootis

EC 14h 18m or
EC 14 20m or Σv2
ο Bootis
σ ——
π ——
109 Virginis
1 α Librae 1 2 3 4 5 reject 2d
2 α Librae 3 4 5

EC 14 44 0
EC 16h ~~24~~ 27m or
17 Draconis ~~[illegible]~~ major
XVI 195
ε Scorpii 4 5 ~~reject (1 of principal)~~
3' ——
3² ——
53 Herculis
10 Camel
h Draconis
Rad 1377
a Herculis
40 Ophiuchi
64 Camel B sp
74 ——
β Draconis
α Ophiuchi

next page

1865 June 23d Ill West (Continued)
Haze in the North
EC 17^h 43^m 0^s

EC 1^h 4^m 0s
Polaris
EC 1^h 15^m 0s

1865 June 24th Ill West

EC 13^h 4^m 0s
Polaris Good seeing
α Virginis
EC 13^h 36^m 0s
EC 13^h 40^m 0s Sheet No 2
η Bootis Miss Bond
θ Centauri " "
α Bootis - AM
A —— "
f —— "
o —— "
J.H.S begins

EC 14 31 0
π Bootis pr J.H.S
109 Virginis
α Librae
α² Librae 3.4.5
ξ Bootis
40 Bootis
ω ——
49 [illegible] Air 2d.
δ Bootis
5 Serpentis
η Coronae
μ Bootis
~~θ Coronae~~
ι ——
μ ——
φ Bootis
β Herculis -
δ Serpentis
EC 15 40 0

1865 June 27th Ill West

EC 9h 57m of AM
α Leonis
Moon I ″
236 Compared 10h 5m of 10. 20.
EC 10h 6m of

EC 13h 4m of ″
α Urs Min (Polaris)
α Virginis AM
EC 13h 18m of ″
″
EC 14h 8m of
α Bootis ″
A ———
18H Bootis ″
f ———
o ——— ″
τ ———
π ——— prec ″
109 Virginis
1α Libræ 1 2 3 ″
2α ——— 1 2 3 4 5
ζ Bootis foll ″
Gr 580
40 Bootis ″
ω ———
223 Camel B ″
48 Cephei false break before one of the wires
1 Camel H ″
δ Bootis
5 Serpentis ″
γ Coronae?
μ Bootis Chronograph stopped.
+ · 3 4 . 5
EC 15 40 a
. . . . ~~2.45~~
κ Lupi
δ Coronae
49 Cephei H
π Scorpii
87 Draconis B
σ Coronae 2 3 4 5 reject 2
σ Scorpii
19 Urs Min. B reject break before 2d wire
next page

323 Cephei B
wire circuit
broken
~~β~~ Bootis
α Serpentis
B

1865 June 27th I M West

AM

ζ Coronae
α Scorpii
λ Ophiuchi
17 Draconis major
XXVI 195
EC 16^h 38^m 0^s

ε Scorpii   New Sheet No 3
EC 16^h 42^m 0^s
ζ^1 Scorpii
ζ^2 ——
ζ
53 Herculis   reject 5th
10 Camel
30 Ophiuchi
h Draconis   2 3 4 5
ε Ursae Minoris   star unsteady
α Herculis
EC 17^h 9^m 0^s
S
EC 1^h 4^m 0^s
Polaris
EC 1^h 15^m 0^s

D.A.S

1865 June 28th 2 M W
Cloudy when Polaris was passed
E C 13 50 0
ε Virginis
42 H Virginis   2 . 3 . 4 . 5 ? for this or A Boot.
α Bootis
A ——   2 . 3 . 4 . 5 ? for this or 42 H Vir
18 H Bootis
τ ——
υ ——
Gr 527 up. Ar 2d.
π Bootis pr.
109 Virginis
α^1 Librae
α^2 Librae 3 . 4 . 5
ε Bootis
next page

1865 June 28th

EC 14 48 0 Sun up.

EC 14 52 0
40 Bootis
ω ——
ω¹ Bootis   Cloudy in W.
5 Serpentis
μ Bootis
α Coronae
4 Ursae minoris
α Serpentis
β ——

EC 15 40 0
new Sheet No. 2

EC 15 42 0
α Coronae
α Librae
49 Cephei H
π Scorpii
ε Coronae
62 Urs min B Aur 2d.

EC 16 7 0

1865 June 29th T.H.W.

EC 13 4 0
Polaris 1st Ai 2d
+ α Virginis

EC 13 18 0

EC 14 8 0
+ α Bootis
18 H ——
4 ——
y ——   This has been called α by mistake a number of times
π Bootis
+ α¹ Librae 2.3 & 4.5 }
+ α² —— 3.4.5 }
ξ Bootis ——
40 ——
ω ——
48 Cephei H sp

EC 15 6 0 / Mist fore

1865 June 29th J.W. West.

EC 15 10 0
η Coronae
+ 323 Cephei B Air 2a
θ Coronae
+ α ———
μ ———
ε Bootis
δ Urs. min
+ α Serpentis
β ———
ι Lupi
ν Coronae
α Librae
49 Cephei ~~Hyp~~ Air 2d
π Scorpii
ε Coronae
6 Urs min B 2.3.4.5 Air 2d Star faint

EC 15 59 0

EC 16 19 0 }
α Scorpii }
EC 16 23 0 }

EC 1h 4m 01
Polaris AM
EC 1h 15m 01

1865 July 1st

EC Stopped at 4h 50m S.T

1865 July 2d

EC Started at 2h 32m. Set slow of S.T Cambridge 20s Mr Bond says the cause of its stopping was the wearing of North pallet

1865 July 3d Ill East

EC $13^h\ 4^m\ 0^s$ AM

Polaris SP Good seeing
α Virginis

EC $13^h\ 19^m\ 0^s$

EC $13^h\ 22^m\ 0^s$
η Ursae majoris } Miss Mitchell
α Bootis
EC 13 51 0

EC $14^h\ 7^m\ 0^s$ AM
α Bootis
λ ——

~~EC $14^h\ 22^m\ 0^s$~~ No 2
EC $14^h\ 24^m\ 0^s$
γ Bootis
σ ——
π ——
109 Virginis
1 α Librae 1 2 3
2 α ——
ζ Bootis
Moon I
Gr 580 SP
40 Bootis
ω ——
223 Camel B
48 Cephei H SP
1 Camel H SP
δ Bootis
5 Serpentis
η Coronae
323 Cephei B
θ Coronae
α ——
β Bootis
θ Urs Min
α Serpentis
β ——
λ Lupi
δ Coronae
λ Librae
49 Cephei! H
π Scorpii
ε Coronae

1865 July 3d Ill East (Continued)

Gr 766 SP
Gr 774 SP
ν² Scorpii ni
87 Draconis B. break between 1st & 2d
σ Coronae
σ Scorpii
19 Urs Min
~~η~~ Coronae
α Scorpii
λ Ophiuchi
17 Draconis ~~free~~ ?
XVI 195
ξ Scorpii faint
ζ¹ ——
ζ² ——
53 Herculis
10 Coronae
30 Ophiuchi
* ~~foll~~ η Draconis ? 2 3 4 5 —
EC 16h 57m 01
EC —— No 3
ε Urs Min 2 3 4 5 {project 1st break of 3d wire
α Herculis
EC 17h 9m 01
EC ——
Polaris 3 4 5 —
EC 1h 15m 01

1865 July 3d EC - Repaired by RFB

1865 July 4th Ill East

EC 1h 4m 01
Polaris
EC 1h 15m 01

1865 July 5^{th} S.M. East

EC 9^h 58^m of

⊕ α Leonis

EC 10^h 2^m of

EC 13^h 4^m of

Polaris — {project last break}

— α Virginis {an accident}

EC 13^h 18^m of

M.S. begins

EC ⋯ ¨ ¨

+ α Coronae

φ Bootis

θ Ursae minoris Ari 2^a —

+ α Serpentis

β ——

κ Lupi

δ Coronae

κ Librae

49 Cephei H

π Scorpii

ε Coronae

Gr 766 ap Ari: 2^b.

— 774 — — 2^a.

ν^2 Scorpii

87 Draconis B

σ Scorpii

19 Ursae minoris

ζ Coronae

+ α Scorpii

λ Ophiuchi

A Draconis

17. ———— pr

XVI. 195

+ ε Scorpii

+ (ζ^1) ——

+ (ζ^2) ——

53 Herculis

10 Camelopardi

EC 16 52 a.

/over

1865 July 5th (2d East continued

New Sheet No. 2

EC 16 55 0
+ ε Ursae minoris Air 2ª.
+ α Herculis 4.5
+ 40 Ophiuchi
+ 64 Tauri. B 2.3.4.5 Air 2ª
+ 74 ——
+ ε Ophiuchi
EC 17 29 0

1865 July 8th
EC 10^{h} 54^{m} 0s
236 Compared 10^{h} 58^{m} 0s 10s-20s
EC 10^{h} 57^{m} 0s

1865 July 8th M.S.
EC 12 . -- 0
Polaris 1.2.4.5 Air 2d.
α Virginis
EC 13 29 0

EC 14 2 0
α Bootis
ρ Bootis Miss Bond
Virginis " "
EC 14^{h} 36^{m} 0s

a star by Miss B in [illegible] EC 14^{h} 38^{m} 0s No 2
+ 2α Librae (Brightest) AM
40 Bootis
ω ——
48 Cephei H 2 3 4 5 —
1 Camel. H
δ Bootis
η Coronae 5 H S

1865 July 8th (Continued) Ill East

θ Coronae
+ α ——
ν —— ? (272° 7.5 foll of two)
θ Urs Min
+ α Serpentis
β ——
λ Lupi
δ Coronae
49 Cephei ++ } 1st wire lost; break before 3d for some of pole stars here
π Scorpii
ε Coronae
Gr 766 Cep
Gr 774 Cep
EC 16^h 7 os 87 Draconis B. } pen filled
EC 16^h 8 os σ Coronae
σ Scorpii
17 Urs Min
+ α Scorpii
λ Ophiuchi
17 Draconis prec
XVI 195 —
+ ε Scorpii
53 Herculis
10 Camel
30 Ophiuchi
k Draconis
+ ε Urs Min
+ α Herculis
+ 40 Ophiuchi
EC 17^h 14^m os

1865 July 9th Ill East

Polaris 1.2.
EC 1^h 8^m os
Polaris 3.4 5
EC 1^h 15^m os

1865 July 10th Ill East

EC 13h 4m of
Polaris AM
EC 13h 16m of
Clouds around a Virginis
EC 14.36
ε Bootis SCB
β Urs Min
β Librae
μ Bootis AM
a Coronae
φ Bootis
a Serpentis
β Serpentis
EC 15h 45m of
Clouds . etc.

1865 July 11th Ill, East. J.H.S

EC 15. 80
+ β Librae
5 Serpentis
ζ Coronae
+ 3 & 3 ~~Canis~~ Cephei 13 op 2345 Ari 2h.
+ α Coronae
μ ———
φ Bootis
β Ursae minoris
+ α Serpentis
β ———
δ Coronae
α Librae
49 Cephei Hop Aw 2h.
π Scorpii

Next page

ε Coronae [possibly the applied false break before 3d wire of the star;

Gr 766

— 774

ν¹ Scorpii

87 Draconis B

σ Coronae — major borealis —

σ Scorpii

19 Ursae minoris

ζ ~~τ~~ Coronae

+ α Scorpii

λ Ophiuchi

17 Draconis prec 1 2 3.4.5

λ 1. 195

+ ζ¹ Scorpii

+ ζ²

53 Herculis

10 Camelopard p. 3.4.5.

30 Ophiuchi

η Draconis

+ ε Ursae minoris Ari 2a.

Clouded up

EC 17 15 0

1865 July 12th Ill East

α Serpentis

{EC 15h 38m 0s}

{EC 15h 53m 0s}

Cloudy

1865 July 13th th East

EC 13 1 0

α ~~Ursae~~ Ursae minoris sp Ari 2a

+ α Virginis

EC 13 18 [illegible]

EC 13 40 J.C.B.

η Urs Maj

α Bootis

~~α Librae~~ [ε Bootis]

1865 July 13th Th E cont

J.H.S. again

+ α² Librae

+ ψ Bootis

γ Coronae

θ ——

+ α ——

μ ——

θ Bootis

θ Ursae mi

+ α Serpentis

β ——

λ Lupi

δ Coronae

λ Librae

49 Cephei H op

π Scorpii

ε Coronae

+ Gr 750 2.3.4.5 op Air 2ª

+ 62 Ursae min B. 2.3.4.5 〃

Possible change of collimation here

EC 15 59 0

New Sheet No. 2

EC 16 2 0

ν² Scorpii

87 Draconis B

α Coronae

σ Scorpii

19 Ursae minoris

ξ Coronae

EC 16 19 0

+ α Scorpii

λ Ophiuchi

A Draconis

17 Draconis

XVI. 195

EC 17 34 0

EC 18 10 0

+ δ Ursae minoris

EC 18 17 0

EC 18 42 0

+ α Lyrae

EC 18 [illegible] 0

Some confusion in the magnet record. Carriage ran off the track - No observations lost however

1865 July 14th All East

EC 13h 4m 0s

Polaris AM

+ α Virginis "

EC 13h 18m 0s

EC 13 46 0

EC 14 4 0

α Bootis SCB

14 13 0

EC 14h 19m 0s No 2

ρ Bootis SCB

ε Bootis SCB

2 α Librae AM

ξ Bootis "

4 o —— faint

w ——

EC 14h 57m 0s

EC 15h 8m 0s

δ Bootis

5 Serpentis

η Coronae reject 2d wire

+ 323 Cephei B

θ Coronae

+ α ——

φ Bootis

θ Ursae Minoris

+ α Serpentis

β ——

λ Lupi

δ Coronae

λ Librae

49 Cephei H

π Scorpii

ε Coronae

Gr 766

Gr 774

ν2 Scorpii

87 Draconis B

Next page

1865 July 14th Ill East (Continued)

o Coronae AM
σ Scorpii
19 Urs Min
ζ Coronae
+ a Scorpii
λ Ophiuchi
A Draconis
Circuit broken
17 Draconis Free

XVI 195
Pen filled
+ ε Scorpii 2 3 4 5 –
+ $ζ^1$ ——
+ $ζ^2$ ——
53 Herculis
10 Camel
30 Ophiuchi
h Draconis
+ ε Urs Min
EC 17h 1m os
EC 17h 6m os No 3
+ a Herculis
+ 40 Ophiuchi
+ 64 Camel B sp
+ 74 ——
+ a Ophiuchi
EC 17h 29m os

EC 1h 4m os
Polaris {Unsteady (variation of outer & inn (touching tube) accidental break 4s ~~before~~ last} wire
EC 1h 15m os

1865 July 15th Ill East

Polaris 1.4.5 Air 2^{6}.

1865 July 15 Ill East (Continued)

EC 14 24. 0

ε Bootis ICB

2 α² Libræ 3 4 5 ns

β Libra

5 Serpentis Am

η Coronae

(μ Bootis Miss Bond.)

EC 15 22 0

EC 15ʰ 25ᵐ 01 No 2 Am

θ Coronae

+ α ——

μ ——

φ Bootis

θ Urs Min

+ α Serpentis

β ——

λ Lupi 2 3 4 5 rejected no illum

δ Coronae

λ Libræ

49 Cephei π

π Scorpii

ε Coronae

Gr 766

Gr 774

ν² Scorpii

87 Draconis B

σ Coronae

σ Scorpii

19 Urs Min

ζ Coronae

+ α Scorpii

λ Ophiuchi 3.4.5

A Draconis

17 —— Grec

17 XVI 195

1865 July 15th Ill East (Continued)

+ 3' Scorpii AM
53 Herculis
30 Ophiuchi
h Draconis
Rd 1377

+ α Herculis
+ 40 Ophiuchi
+ 64 Camel B sp
+ 74 ———
+ α Ophiuchi
EC 17h 29m os
+ EC 17h 40m os
μ Herculis
EC 17h 42m os

1865 July 17th Ill West

EC 15h 10m os
η Coronae ———
θ ———
+ α ———
μ ———
φ Bootis
θ Urs Maj
+ α Serpentis
β ———
λ Lupi
δ Coronae
λ Librae
49 Ophi tt
π Scorpii
ε Coronae
Gr 766
Gr 774
γ2 Scorpii
87 Draconis

1865 July 17th All West Continued

σ Scorpii
17 Urs Min
3 Coronae
+ α Scorpii
λ Ophiuchi
~~A~~ Draconis
17 ——— ~~foll~~ Min.
XVI 195
+ ζ' Scorpii
53 Herculis
10 Camel
39 Ophiuchi ns
h Draconis
B. 1377 ns break before & after 4th wire
+ α Herculis
+ 40 Ophiuchi
271 Herculis B
ε Herculis foll?
+ 74 Camel B
λ Herculis
+ α Ophiuchi ns Equatorial obsv
Gr 2456 1st wire lost
ι Herculis
ω Draconis
γ Ophiuchi
EC 17 45 01
----- new Sheet
EC 17 47 01 (No 2
θ Herculis
ν ———
Equatorial Obsn
ξ Herculis 1st wire close to signal
Gr 2517
A Herculis
η Sagittarii
36 Draconis
+ δ Urs Min
24 Urs Min
~~42 Draconis~~ 3H South
~~θ Aquilae~~
next page

1865 – July 17th I ll West (Continued)

+ α Lyrae
+ 57 Cephei H
δ Sagittarii
ο Draconis
16 Lyrae
18 Aquilae 2, 3, 4, 5 –
ι Lyrae
η Lyrae
δ Draconis
59 ——— ns

EC 19h 20m 0s

1865 – July 18th I ll West

~~Polaris α Virginis~~ ~~[illegible]~~ ~~EC 13h 19m 0s~~

+ EC 15h 14m 0s
η Coronae ns reject 1st wire
AM
θ ———
+ α ———
μ ———
φ Bootis
EC 15h 33m 0s
New Sheet No 2

EC 15h 35m 0s
+ α Serpentis
β ———
λ Lupi
δ Coronae
λ Librae
49 Cephei H
π Scorpii
ε Coronae
Gr 766 1 2 4 5 –
Gr 774
ν² Scorpii
87 Draconis B
σ Coronae
σ Scorpii
19 Urs Min
+ ξ Coronae
α Scorpii
λ Ophiuchi
β Draconis
EC 16h 29m 0s

1845 July 18th Ill West (Continued)

EC 16^h 58^m os AM

+ ε Urs Min
μ Draconis foll
77 Urs Min B
+ α Herculis
+ 40 Ophiuchi — wire broken
271 B Herculis
ρ Herculis — wire broken
+ 74 Camel B SP — Up. in dome
+ α Ophiuchi
Gr 2456 ns 1st wire lost — Star too soon after α Ophi
ι Herculis ns
ω Draconis
Gr 1030 SP
+ δ Urs Min Feronia THS
EC 18^h 29^m os
New Sheet No 3
EC 18^h 31^m os

Feronia THS
EC 19 25 0

1845 July 20th Ill West

EC 13^h 4^m os
Polaris
+ α Virginis
EC 13^h 18^m os

EC 15 22 0 T.H.S
+ α Coronae
μ ——
φ Bootis
δ Ursae minoris
+ α Serpentis
EC 15 39 0
EC 16 .. ..
+ α Scorpii
κ Ophiuchi
EC 16 27 0

1865 July 20th M. W. cont

A Draconis 3.4.5.
17 Draconis prec.
XVI. 195.
30 Ophiuchi
h Draconis 2.3.4.5.
+ ε Ursae minoris Di 2a —
μ Draconis bor: seq:
77 Ursae minoris B.
+ α Herculis
Herculis 271 B
ρ Herculis
74 Camel B Ap.
λ Herculis
+ α Ophiuchi
Gr. 2456
EC 17 42 0.

EC 18 10 0
+ δ Ursae minoris Di 2a.
EC 18 18 0

EC 18 30 0
+ ~~Lyrae~~
+ 51 Cephei H. ep. Di 2a —
EC 18 40 0
EC 1h 4m 01
Polaris Am
EC 1h 16m 01

1865 July 21st Ill West
EC 13h 4m 01
Polaris
α Virginis
EC 13h 18m 01

EC ————
α Coronae
μ ———— Clouds .3.4.5
α Serpentis
EC 16h 19m 01

1865 July 22 Ut. West

EC . ———

Polaris Acu 2da

+ α Virginis 2.3.4.5)

EC 13 18 0.

EC 13 46 0.

+ η Bootis

EC 13 50 0

EC 14 8 0

+ α Bootis

EC 14 10 0

EC 14^h 42^m 0^s

+ 2α Librae AM

EC 14^h 44^m 0^s

EC 14^h 49^m 0^s

β Urs Min . S.C.B

EC 15 1^m 0^s New Sheet No 2

EC ———

γ Urs Min SCB

EC 15^h 21^m 0^s ~~New Sheet No. 2.~~

EC 15^h 25^m 0^s

θ Coronae . AM

+ a ——— . 2.3.4.5 faint

u ———

ρ Bootis

+ α Serpentis

β ———

λ Lupi

ρ Coronae

λ Librae

49 Cephei H

π Scorpii

ε Coronae

Gr 766

Gr 774

ν2 Scorpii

87 Draconis B

σ Coronae

next page

1865 July 22d All West — (Contd)

AM

σ Scorpii
19 Ursæ Min B
3 Coronæ
α Scorpii ns
λ Ophiuchi
A Draconis
17 Draconis prec
XVI 195
31 Scorpii faint
53 Herculis
10 Camel sp
30 Ophiuchi
η Draconis
B.C. 1377 .3.4.5 screws
ι Draconis ~~Hx~~ north MS begin again
77 Ursæ min B
ε Herculis
ρ ——
π ——
ζ Ophiuchi
Gr 2456 2.3.4.5 Ari 2a
ι Herculis
ω Draconis
ν Ophiuchi
Gr 1030 sp
EC 17 47 0
New Sheet No. 3
EC 17 48 0 (first second-mark on sheet)
φ Herculis
θ ——
35 Draconis 3.4.5
μ Sagittarii
b Herculis
Gr 2517
A Herculis
EC 18 9 0 (one minute-line has been lost when filling pen
36 Draconis
δ Ursæ minoris Ari 2as
24 —— " 2as
42 Draconis

Chas Fay

1865 July 22d L.W.W. cont.

3 H Scuti
α Lyrae
+ 51 Cephei Hev. Au. 2a
+
EC 18 41 0

1865 July 24th Ill West

EC 13h 4m 0s AW
⊖ Polaris
+ α Virginis
23h Compared 13h 20m 0.s 10.s 20s

EC 13h 20m 0s

EC

+ α Bootis
EC 14h 10m 0s

EC

+ α Coronae
+ α Serpentis clouds
EC 15h 38m 0s

EC 17h 15m 0s
~~[illegible]~~
271 B Herculis
ρ Herculis foll clouds
λ Herculis
+ α Ophiuchi
Gr 24 56 reject. 1.2 wires star faint
ω Draconis
Gr 10 30 SP
~~ψ~~ Herculis .4 s.
θ Herculis
35 Draconis
γ Sagittarii
b Herculis
Gr 25 17
θ Herculis

EC 18h 9m 0s

1865 July 24th Pll West
New Sheet No 2
EC 18h 11m os
36 Draconis 3. 4. 5
+ δ Urs Min os
24 ——
42 Draconis
+ α Lyrae
+ 51 Cephei H SP
Clouds again

o Draconis
18 B Aquilae faint
γ Lyrae
16 ——
18 Aquilae
ι Lyrae
η ——
39 Draconis 2 3 4 5
VII 67 SP
τ Draconis 3 4 5
ι Cygni
Gr 2900
28 Camel H
+ γ Aquilae
+ α ——
+ β ——
+ λ Urs Min Good seeing
EC 20h 7m os

EC 1h 4m os
Polaris unsteady
EC 1h 16m os

1865 July 26th Ill West

EC 15^h 35^m os AMW

+ α Serpentis

β

δ Coronae

λ Librae faint

π Scorpii

ε Coronae

Gr. stars not seen

thin clouds Northward

β Scorpii prec Miss Bond

δ Ophiuchi " " AMW

σ Coronae

σ Scorpii

ζ Coronae

+ α Scorpii ns

λ Ophiuchi

A Draconis

+ ζ¹ Scorpii very faint

53 Herculis

10 Camel SP

30 Ophiuchi

+ ε Urs Min

u Draconis

77 Urs Min B

+ α Herculis

+ 40 Ophiuchi

271 B Herculis

ε λ Herculis

+ α Ophiuchi

Gr 2456 ns

ι Herculis

ω Draconis

γ Ophiuchi

Gr 1030 SP

EC 17^h 48^m os

EC 18^h 12^m os

+ δ Ursae Min

24

42 Draconis

3 H Scuti

EC 18^h 26^m os

1865 July 26th Sll West (Continued)

EC 18h 31m os
New Eyept No 2
+ α Lyrae
57 Cephei 1 2 3 4
4 Aquilae
Eyep in dome

β Cygni
+ h^2 Sagittarii
+ γ Aquilae
+ α ——
+ β ——
EC 19h 50m os

1865 July 27th Slw. West.

EC 13 2 0
Polaris sp tri 2a
+ α Virginis
EC 13 19 0
EC 14 7 0
+ α Bootis
EC 14 11 0
EC 15h 25m os AM
+ α Coronae
+ α Serpentis "
β —— "
δ Coronae "
π Scorpii "
ε Coronae "
(prec & foll) β Scorpii (S C Bond
ν^2 Scorpii AM
δ Ophiuchi S.C.B.
~~ε Ophiuchi 2 3 4 5 S.C.B.~~
EC 16h 7m os

1865 July 27th All West (Continued)

New Sheet No. 2.

EC

α Scorpii. No Illumination All

β Herculis 4.5 S B

τ Scorpii "

ζ Ophiuchi "

XVI 18.2 "

ζ Herculis "

η Herculis "

η⁵ Scorpii

ζ¹ Scorpii "

ζ² Scorpii "

EC 16h 55m 0s

+ ε Urs Min All

μ Draconis 2 3 4 5 "

77 Urs Min B? "

+ α Herculis "

27 β —— "

ρ —— m "

λ —— "

+ α Ophiuchi "

Gr 2456 "

ι Herculis Beatrice? "Drs Equal

EC 18 8 0

New Sheet No. 3.

+ δ Ursae minoris Ai 2a JHS

24 —— " 2a "

EC 18 24 0

46 Draconis 2.3.4.5 false Ob. bfs. 2?

3H5 [illegible]

45 Draconis

+ α Lyrae

+ 51 Aphir [illegible] Ai 1a

24 [illegible]

1865 July 27th IUW. cont.

δ¹ Sagittarii MWG
δ² ——— "
o Draconis "
18B Aquilae "
+ δ Aquilae "
+ h Sagittarii "
EC 19 30 o.

1865 July 28th IUW

+ EC 15h 35m o1
a Serpentis
EC 15h 40m o1

EC 16h 14m o1
ζ Coronae
+ a Scorpii
λ Ophiuchi
A Draconis
ζ Herculis
+ ζ¹ Scorpii .1.2. faint went out
53 Herculis
10 Camel SP

EC 17h 15m o1
(New) Sheet No 2
EC 17h 20m o1
λ Herculis
+ a Ophiuchi
Gr 2456 3, 4, 5
ι Herculis
ω Draconis
γ Ophiuchi
Gr 1030
θ Herculis
35 Draconis
γ Sagittarii
b Herculis

1865 July 28th Ill West (Continued)

Gr 2517
A Herculis
η Sagittarii
36 Draconis
+ δ Urs Min 2 3 4 5
24 ——
42 Draconis
3 H Scuti
~~46 Dra~~ α Lyrae
+ 51 Cephei H
24 Camel H SP
δ¹ Sagittarii
δ² ——
o Draconis 2 3 4 5
18 B Aquilae
γ Lyrae
16 ——
18 Aquilae
ι Lyrae
η ——
~~59 Draconis~~
VII 67 SP
τ Draconis 2 3 4 5
ι Cygni
Gr 2900
28 Camel H
+ γ Aquilae
+ VII 187 SP
β Aquilae
EC 19 50 0
New Sheet No 3
EC 19h 52m 0
+ λ Urs Min
EC 20h 6m 05
1865 July 29th
EC 13 2 0
Polaris sp. in 2d 1.2.4.5 Clouded
3
EC 13 16 0
EC 15 52 0
Gr 766
— 774 Low

1865 July 29th M.W. cont. J.H.S

τ Scorpii
~~ζ Ophiuchi~~
87 Draconis B
+ υ Ophiuchi
σ Coronae north of two
σ Scorpii
ξ Coronae
+ α Scorpii
h Ophiuchi
A Draconis
53 Herculis
70 Ophiuchi
ζ Draconis
Rst. 1377
~~70 Ophiuchi~~
μ Draconis 3.4.5
271 Herculis B
ρ Herculis foll.
κ Herculis
+ α Ophiuchi
Gr 2456
ι Herculis
ω Draconis
γ Ophiuchi
EC 17 43 0
New Sheet No. 2
EC 17 45 0
θ Herculis
γ Sagittarii
4 Herculis
+ μ Sagittarii
δ Ursae min. Air 2a.
EC 18 19 0

1865 July 30th Ill West
EC 1h 4m 0s AM
Polaris unsteady
EC 1h 16m 0s

1865 July 31st All West

EC 13h 4m o1
Polaris
+ a Virginis 236 Compared 13h 20m 0s.10.20
EC 13h 10m o1

EC 14h 8m o1
+ a Bootis
EC 14h 10m o1

EC 15h 35m o1
+ a Serpentis
ε Coronae
σ Scorpii
ζ Coronae
+ a Scorpii
λ Ophiuchi
EC 16h 25m o1 New Sheet No 2
EC 16h 46m o1
53 Herculis
10 Camel
30 Ophiuchi
R 1377
u Draconis
77 Urs Min
+ a Herculis 2 3 4 5 {Break before 2d wire}
271 B Herculis
+ ξ 74 Camel B foll sp
λ Herculis
+ a Ophiuchi
Gr 2456
ι Herculis
ω Draconis
γ Ophiuchi
EC 17h 45m o1
Pen filled
EC 17h 46m o1
θ Herculis
35 Draconis
γ Sagittarii

1865 July 31st All West (Continued)

AM

b Herculis
Gr 2517
A Herculis
η Sagittarii
36 Draconis " "
+ δ Urs Min " " 2 3 4.5 —
42 Draconis " 41
3 H Scuti
45 Draconis
+ α Lyrae
+ 51 Cephei H SP break before first wire
δ^1 Sagittarii
δ^2 ————
γ Lyrae
16 ————
18 Aquilae
ι Lyrae
η ————
β^1 Sagittarii very faint not good
τ Draconis
EC 19^h 22^m 01
New Sheet No 3
EC 19^h 25^m? 01
ι Cygni , 3, 4, 5 —
Gr 2900
28 Camel H SP
+ γ Aquilae
VII 187 SP
+ λ Urs Min
EC 20^h 6^m 01

Sheets read to this point on Aug 31. Commencing on the date of July 20th — About 3 PM Aug 30th

1865 Aug 1st. Ill West.

EC 13 1 0
Polaris sp eta 2d reject 3d wire which
EC 13 16 0 was incompletely observed on account of Clouds

EC 14 8 0
α Bootis
EC 14 10 0

EC 16 12? 0
σ Scorpii
ξ Coronae
α Scorpii
λ Ophiuchi
EC 16 25 0

ζ Herculis
EC 16 38 0

EC 16 44 0
53 Herculis
30 Ophiuchi
μ Draconis south not the component previously obs'd
α Herculis
δ Herculis
κ ———
ε Ophiuchi
EC 17 30 0
New Sheet N° 2
EC 1^h 4^m 0^s
Polaris (Good seeing) AM
EC 1^h 16^m 0^s

1865 Aug 2d Ill West

EC 13^h 4^m 0^s
Polaris
EC 13^h 19^m 0^s

1865 August 2^{d} Ill West (Continued)

EC 16^{h} 3^{m} os AM
ν^{2} Scorpii
σ ______
ξ Coronae
+ α Scorpii
λ Ophiuchi
EC 16^{h} 25^{m} os
EC 16^{h} 46^{m} os
53 Herculis
30 Ophiuchi
~~ω Draconis~~
+ ε Urs Minor
ω Draconis
Moon I (Limb not well defined)
+ α Herculis
271 B Herculis
ρ Herculis (s foll)
λ^{1} ______
+ α Ophiuchi
EC 17^{h} 29^{m} os
EC 17^{h} 30^{m} os
θ Herculis
35 Draconis
γ Sagittarii
t Herculis
Go. 25-17
A Herculis
η Sagittarii
+ δ Urs Minor
EC 18^{h} 19^{m} os
New Sheet No 2
EC 18 24^{m} os
42 Draconis
3H Scuti
45 Draconis
+ α Lyrae
+ 51 Cephei H SP
24 Camel H SP
δ^{1} Sagittarii
δ^{2} ______
o Draconis

1865 August 2d (Continued)

18 B Aquilae AM
γ Lyrae
16 ———
18 Aquilae
ι Lyrae
η ———
β' Sagittarii faint
VII 67 SP
τ Draconis ? {star was fainter than 5th mag}
{π Draconis was seen too late to observe}
ι Cygni
Gr 2900
26 Camel H SP
+ γ Aquilae
VII 182 SP
+ β Aquilae
λ Urs Min 2d wire only clouds prevented observation of the rest
EC 20h 9m 0s

1865 Aug 4th All West
EC 16h 57m 0s AM
+ ε Urs Min
+ α Herculis
271 ~~217~~ B. ———
+ α Ophiuchi
ι Herculis
γ Ophiuchi
EC 17 42 0
New Sheet No 2
EC 17 46m 0s
χ Herculis
o ———
γ Sagittarii
b Herculis
Gr 2517
A Herculis
η Sagittarii
Next Page

1865 August 4th Ill West (Continued)

+ δ Ursae Minoris — AM
24 ——— .2. 3. 4. 5.
3 H Sextii
45 Draconis
+ a Lyrae
++ 51 Cephei SP — (Key force false breaks between some of wires)
24 Camel H SP
δ^1 Sagittarii
δ^2 ———
o Draconis — 2 3 4 5
γ Lyrae
16 ———
Moon I — 2 3 4 5 —
ι Lyrae ———
η ———
δ Draconis
59 ——— 2 3 4 5 —
τ ———
π ———
ι Cygni
Gr 2900
28 Camel H SP — a break before 3^d wire
+ γ Aquilae
VII 187 SP — 1^{st} w lost
+ β Aquilae
+ λ Urs Minoris — Carriage weight fell as I was observing the last wire — for two minutes or more the pen went over the same line again making some doubt about the minute
EC 20^h 7^m 0^s

1865 August 8th Ill West

EC 16^h 20^m 0^s
+ α Scorpii
236 Compared 16^h 22^m 0^s. 10^s. 20^s.
EC 16^h 23^m 0^s

1865 August ~~8th~~ Ill West (Continued)

Sheet No 1

EC 16^{h} 56^{m} os

AM

ε Ursae Minoris +
α Herculis +
α Ophiuchi +

EC 17^{h} 29 os

EC 17^{h} 50 os
θ Herculis
γ Sagittarii
ξ Herculis
Gr 2517
π Herculis
η Sagittarii
EC 18^{h} 14^{m} os

Visitors - The arrangement
of Saturday last

EC 19^{h} 25^{m} os
ι Cygni
Gr 2900
28 Camel H
γ Aquilae +
α —— +
β —— +
λ Ursae Minoris +
EC 20^{h} 6^{m} os

EC 1^{h} 4^{m} os
Polaris
EC 1^{h} 16^{m} os

1865 Aug 9th Ill West

Sheet No 1

EC ——
Polaris . 3^{d} wire . clouds. Star seen at times between wires
EC 13^{h} 16^{m} os

1865 August 9th All West (Continued)

New Sheet No 2 EC 18h 4m os AWr

+ δ Urs Min
3H Scuti
45 Draconis
+ a Lyrae
+ 51 Cephei H SP
δ1 Sagittarii
δ2 ——
0 Draconis reject 5th wire
18. B Aquilae
γ Lyrae
16 ——
18 Aquilae
ι Lyrae
η ——
59 Draconis .2,3,4,5.
π ——
ι Cygni
Gr 2900
28 Camel H SP
+ γ Aquilae
VII 187 SP
+ β Aquilae
+ λ Urs Min
EC 20h 7m os

1865 August 10th All West

Sheet No 1 EC 13h 4m os Clouds passing during observation but the transit was complete
+ α Urs Min
+ α Virginis .3.4. reject 4th clouds
EC 13h 19m os
EC 14h 8m os
+ a Bootis
EC 14h 14m os

1865 August 12th Ill West

Sheet No 1 | EC 13^h 5^m os | AM
Polaris
+ α Virginis
EC 13^h 19^m os

EC 16^h 50^m os
30 Ophiuchi
+ ε Urs Min
+ α Herculis
EC 17^h 9^m os

EC 17^h 26^m os
+ α Ophiuchi
ι Herculis
γ Ophiuchi
* prec ζ Herculis ns
ζ Herculis
θ ———
γ Sagittarii
b Herculis
Gr 2517
A Herculis breaks between 4&6 wires
+ δ Urs Min
3 H Scuti reject 1st wire
45 Draconis
+ α Lyrae
+ 51 Cephei
24 Camel H SP . 3, 4, 6.
δ¹ Sagittarii
δ² ———
ο Draconis
18 B Aquilae
γ Lyrae
16 ———
18 Aquilae
ι Lyrae
η ———
β¹ Sagittarii faint
EC 19^h 15^m os

New Sheet No 2 | EC 19^h 18^m os
π Draconis
Ill went out
next page

1865 August 12 Ill West (Continued)

Sheet No 2 Continued Gr 2908 AM

28 Camel H 2p break before 3^{d} wire

+ γ Aquilae

VII 187 Sp

+ β Aquilae

+ λ Urs Min

EC 20^{h} 8^{m} o1

1865 August 14th Ill West

Sheet No 1

EC 13^{h} 5^{m} o1

Polaris

+ α Virginis

236 Compared 13^{h} 20^{m} o1. 10^{s} 20^{s}

EC 13^{h} 20^{m} o1

EC 14^{h} 8^{m} o1

+ α Bootis

EC 14^{h} 10^{m} o1

EC 16^{h} 58^{m} o1

+ ε Urs Min

+ α Herculis

EC 17^{h} 9^{m} o1

EC 17^{h} 26^{m} o1

+ α Ophiuchi

EC 17^{h} 29^{m} o1

EC 17^{h} 39^{m} o1

γ Ophiuchi

ζ Herculis

tg

γ Sagittarii

Gr 2517

A Herculis

+ δ Urs Min

EC 18^{h} 18^{m} o1

EC 18 31^{m} o

+ α Lyrae

+ 51 Cephei

EC 18^{h} 42^{m} o1 next page

1865 August 14th Ill West (Continued)

New Sheet No 2 δ¹ Sagittarii
δ² ——
EC 18h 50m os
18 B Aquilae
γ Lyrae
16 ——
18 Aquilae
ι Lyrae
η ——
δ Draconis
59 Draconis 1st wire lost
π ——
ι Cygni
+ γ Aquilae
+ α ——
β —— 1st wire only clouds
Clouds
EC 19h 58m os

1865 August 15th Ill West

Sheet No 1 EC ——
30 Ophiuchi
EC 16h 55m os
+ ε Urs Min
EC 17h 10m os
EC 17h 26m os
+ α Ophiuchi
EC 17h 29m os
EC 17h 39m os
γ Ophiuchi
f Herculis
θ Ophiuchi
EC 17h 52m os
EC 18h 7m os
+ δ Urs Min
EC 18h 18m os

next page

1865 August 15th Ill West (Continued)

Sheet No 1. continued EC 18^h 30^m os AM
+ a Lyrae
+ 51 Cephei H SP ns
24 Camel H SP ns
EC 18^h 41^m os

New Sheet No 2 EC 18^h 44^m os
δ^1 δ^2 Sagittarii

18 B Aquilae
γ Lyrae
16 ——
18 Aquilae
ι Lyrae
η ——
β^1 Sagittarii very faint 1 2 4
π Draconis
ι Cygni ,2,3,4,5–
+ γ Aquilae
+ a ——
+ B Aquilae
+ λ Urs Min
EC 20^h 4^m os

1865 August 16th Ill West

EC ——
30 Ophiuchi
+ ε Urs Min ink failed
EC —— chronograph not stop
new pen
EC 17^h 6^m os
+ a Herculis
236 Compared 17^h 15^m (0).10.15.
EC 17^h 22^m os

1865 ~~July~~ Aug 18th All West

Sheet No 1 EC ——— AM

+ δ Urs Min 2 3 4 5 —

EC 18h 22m os

EC 18h 30m os

+ α Lyrae ———

+ 51 Cephei H

24 Camel H — {clouds 3d lost? reject) 4th wire

ι Lyrae ———

η ——— faint

δ Draconis

π ——— clouds reject obs

+ γ Aquilae very faint reject 2d

+ α ———

+ β ——— faint

1865 Aug. 19th SUW.

EC 17 2 0

+ α Herculis

— 17 9 0

EC 17 25 0

+ α Ophiuchi

EC 17 29 0

EC 17 38 0

γ Ophiuchi

* prec f Herc 2.3.4.5

f Herculis

EC 17 50 0 New Sheet No. 2.

EC — — —

+ δ Ursae minoris

EC 18 19 0

EC 18 30 0

α Lyrae —

EC 18 33 0

EC — — —

δ Sagittarii

δ ———

EC 18 50 0

EC 19^{25} 0
λ Sagittarii
EC 19^{30} 0

Sheet No 1 1865 August 21st Ill West

AM

EC 13^h 5^m 0^s
Polaris clouds reject 1st wire 2d lost
EC 13^h 19^m 0^s
EC 14^h 8^m 0^s
a Bootes clouds 1 2 3 only
EC 13^h 12^m 0^s

EC 15 35^m 0^s
a Serpentis
EC 15 38 0^s

EC 17 26 0^s
a Ophiuchi
EC 17 46 0^s clouds

1865 August 23d Ill West

Sheet No 1 EC 13^h 5^m 0^s AM
Polaris 2d & 3d wires

EC 13^h 16^m 0^s

New Sheet No 2 EC 18^h 10^m 0^s
+ δ Urs Min
EC 18^h 18^m 0^s

EC 18^h 30^m 0^s
+ a Lyrae
+ 51 Cephei H
δ^1 Sagittarii reject 1 & 2d wires
δ^2
18 B Aquilae
γ Lyrae
16
18 Aquilae

next page

1865 August 23^d (Continued) Ill W

Sheet No 2

β^1 Sagittarii faint
β^2 —— . 3.4. wires reject obsn
EC 19^h 14^m os
EC 19^h 24^m os
ι Cygni
+ γ Aquilae
+ α ——
+ β ——
+ λ Urs Min {2^d wire lost wire broken in current}
EC 20^h 6^m os

1865 August 24th Ill West

Sheet No 1

EC 18^h 5^m os
η Sagittarii AM
+ δ Urs Min
EC 18^h 19^m os
EC 18^h 30^m os
+ α Lyrae
+ 51 Cephei H
EC 18^h 40^m os

New Sheet No 2

EC 18^h 44^m os
δ^1 Sagittarii
δ^2 Sagittarii
γ Lyrae
16 ——
18 Aquilae
β^1 Sagittarii 3^d wire lost. Ill unsteady
β^2 —— .3.4.5.
EC 19^h 16^m os
EC 19^h 37^m os
+ γ Aquilae
+ α ——
+ β ——
+ λ Urs Min {reject 2 & 4th wires Star faint}
EC 20^h 7^m os

1865 August 25th All West

Sheet No. 1 — EC 13^h 5^m os — AM

Polaris

+ α Virginis

EC 13^h 19^m os

EC 17^h 27^m os

+ α Ophiuchi

EC 17^h 30^m os

EC 17^h 40^m os

γ Ophiuchi

f Herculis ?

EC 17^h 48^m os

EC 18^h 6^m os

η Sagittarii

+ δ Urs Min

EC 18^h 18^m os

EC 18^h 30^m os

+ α Lyrae

+ 51 Cephei H sp)

δ¹ Sagittarii

δ² ——

18 B Aquilae

γ Lyrae

16 ——

18 Aqilae

EC 19^h 1^m os

New Sheet No 2 — EC 19^h 10^m os

β¹ Sagittarii

EC 19^h 15^m os

EC ~~19^h 39^m os~~ 19^h 37^m

+ γ Aquilae

+ α ——

+ β ——

+ λ Urs Min

EC 20^h 6^m os

1865 Aug 26th Ill ~~West~~ East

EC 17 56 0 J.W.S

30 Draconis
+ δ Ursae minoris 2.3.4.5 Ri 2as
24 —— " 2as
42 Draconis
3 H Scuti
45 Draconis
+ α Lyrae sp
+ 51 Cephei H Ri sp
24 Camel H sp
EC 18 45 0 }
— 46 0 }
ο Draconis
18 B Aquilae
+ ζ ——
+ ω ——
β¹ Sagittarii
β² —— 2.3.4.5
VII.67 sp
ε Draconis
π ——
ι Cygni
Gr. 2900
28 Camel H sp
+ ν Aquilae
VI. 187 sp

EC 19 45 0

1865 Aug 28th Ill East

New Sheet No 1 EC 13h 5m 01 A.M.
Polaris sp
EC 13h 16m 01

EC 17h 6m 01
+ α Herculis
236 Compared
ρ Herculis
λ Herculis

next page

1865 August 28th Ill East

Sheet No 1 Continued + α Ophiuchi AM ---
ι Herculis,
ω Draconis
Clouds
EC 17h 49m os

EC 18h 30m os
+ α Lyrae
δ^1 Sagittarii both ~~stars~~ stars faint
δ^2 —— reject 3d wire δ^2
EC 18h 53m os

EC 19h 10m os
δ Draconis
τ ——
ι Cygni → π ——
+ γ Aquilae
+ α ——
+ β ——
EC 19h 57m os

EC 1h 4m os
Polaris {star unsteady & wt. to last break of 3d wire}
EC 1h 19m os

1865 August 29th W East. T.H.S.

15 25 0
+ α Coronae
+ α Serpentis
15 39 0

EC 17 44 0
Gr. 1030 sp. 2.3.4.5
35 Draconis
η Sagittarii
+ δ Ursae mi 2.3.4.5 Ai 2b.
24 —— rej 4 clouds. Aid 2b.
42 Draconis
34 Scuti
45 Draconis
+ ι Lyrae

Fm

1865 Aug. 29 cont.
24 Camel Hop.
σ Draconis
1813 Aquilae 2.4.5 Cloudy at 1.2.
+ ζ Aquilae
Chro. Stopped
+ 25 Camel H 2.3.4.5 Ai 2b
EC 19 4 0

1865 Aug 31st TH+S

EC ~~17 52 0~~ 17.53
35 Draconis
EC 18 5 0
6 0
η Sagittarii
36 Draconis
+ 26 Ursae minoris 2.3.4.5 Ai 2a
24 ——— Ai 2a
45 Draconis
+ δ Lyrae
51 Cephei Hop. Ai 2a
24 Camel Hop.
+ β Lyrae
EC 18 48 0

EC 20 24 0
+ δ Aquilae
EC 20 ~~25~~ 0

1865 Sept 1st All East

EC 13h 5m 0s
Polaris S.P.
EC 13h 16m 0s

AM

1865 Sept. 2d, All East
EC 18 4 0
+ μ Sagittarii
36 Draconis
+ δ Ursae minoris 2.3.4.5 Ai 2b
EC 18 18 0

Cont

1865 Sept. 2. S.M. East continued

?
E 18 (22) 0
ξ Draconis
31 H Scuti
45 Draconis
α Lyrae
51 Cephei Hev. Air Ld.
EC 18 42 0.

New Sheet No 2 EC 19 23 0
11 Cygni
h Sagittarii
28 Camel. Hev.
μ Aquilae
Ml. 187 sp 2. 3. 4. 5
β Aquilae
EC - - -

EC 20 7 0 — 20 8
α¹ Capric.
δ —
κ Cephei
EC 20 14 0

1865 Sept 4th S.M. East A.M.

Sheet No 1 EC 17h 27m 0s Chronograph oiled runs slow
α Ophiuchi
236 Compared 17h 31m 0s 10s 20s
EC 17h 31m 0s
EC 18h 8m. 0s
36 Draconis
δ Urs Min 2 3 4 5
χ Draconis
α Lyrae
51 Cephei
24 Camel. H Sp 2 3 4 5
EC 18 48m 0s

1865 Sept 4th Sll ~~W~~ East —

Sheet No 2 +
ζ Aquilae
EC 19 1m os
δ Draconis
59 ——
VII 67 sp 3 4 5 —
τ Draconis 3 4 5 faint
π ——
Gr 2900
28 (Camel H sp)
+ γ Aquilae
VII 187 sp
+ β Aquilae
+ λ Urs Min
EC 20h 6m os
Chronograph adjusted
works better

1865 Sept 5th SHE W.S

EC 17 43 0
Gr 1030 sp.
chronograph stopped by an accident

EC 17 52 0
35 Draconis
γ Sagittarii
EC 17 58 0
filled pen
EC 18 4 0.
+ μ Sagittarii
36 Draconis 2.3.4.5
+ δ Ursae minoris Air 2d. 3.4.5.
χ Draconis
3 H Scuti
EC 18 46 0
EC 19 9 0
+ ω Aquilae
δ Draconis 2.3.4.5
59 —— 2.3.4.5
VII 67 sp
+ δ Aquilae lower

1865 Sept 5 W.E. cont.

π Draconis
EC 19 24 0
New Sheet No. 2
EC 19 37 0
+ γ Aquilae
+ 15th Camel B. of x
+ β Aquilae
EC 19 52 0

EC . 20 . 0 0
XX . 414 .
XX . 29 .
+ α¹ Capricorni
+ α² ———
κ Cephei
π Capricorni
+ XX . 174
74 Draconis
EC 20 41 0
1865 Sept 6th W.E.

EC 17 23 0
+ ζ Ophiuchi
EC 17 30 0
EC 17 36 0
+ ω Draconis
μ Herculis
ξ Herculis
EC 17 49 0
EC 17 52 0
35 Draconis
γ Sagittarii
+ μ ——— W.E. ends here

A. M. begins
36 Draconis
+ δ Ursa Minoris 2. 3. 4. 5.
χ Draconis
34 Scuti
+ α Lyrae
+ 51 Cephei H
EC 18h 41m 0s

1865 Sept 6th Ill East (Continued)

(New Sheet)
Sheet No 2

EC 19^{h} 10^{m} 01 AM
δ Draconis
57 ———
VII 67 sp
τ Draconis .3.4.5.
π ———
+ γ Aquilae
VII 187 sp
+ β Aquilae
XIX 414
XX . 6
XX 29
+ 1α Capricorni
+ 2α ———
κ Cephei
XX 2214 Aquilae
π Capricorni
XX 174
ε Delphini
EC 20^{h} 28^{m} 0^{s}

1865 Sept. 7th Ill East THS

EC 16 19 0
+ α Scorpii
EC 16 22 0

EC 16 34 0
+ ζ Herculis
EC 16 37 0

EC 18 12 0
+ δ Ursae minoris Ai 2^{a}
3H Scuti
+ α Lyrae
+ 51 Cephei Hp Ai 2^{a}
EC 18 39 0

EC 19 12 0
59 Draconis
" 19 15 0 reneeper, by mistake
τ Draconis
" 19 19 0

1865 Sept. 7th. Cl. East cont.

Ec 19 38 0
+ γ Aquilae
+ α Aquilae Cloudy
κ Cephei
23 H. Aquilae
π Capricorni
+ ρ ———.
XX. 174
ε Delphini
Rad.C. 4894 2.3.4 Ai 2d
1 Aquarii
22 C 13 Cygni
α ———

Ec 20 48 0

1865 Sept. 9th Cl. East.

Ec 19 38 0
+ γ Aquilae
+ 156 Lamb B.ys Ai 2a
Ec ~~1~~9 46 0
+ β Aquilae
Ec 19 58 0 } filled pen
59 0 }
XIX. 414
* prec XX. 6 --- 10h S
XX. 6
XX. 29 bad observation repeat. Cloudy
+ α¹ Capricorni 1.2.3 (Cloudy at 4.5)
+ α² ———
Signal for κ Cephei — no observation
Ec 20 15 0
Clouded up.

1865 Sept 11^{th} All East

Sheet No 1 AM

EC ———
57 Draconis
τ ———
EC 19^h 20^m os
EC 19 28^m os

EC ~~11~~ ———
+ γ Aquilae
EC 19 41^m os
+ α Aquilae
+ β ———
EC 19^h 50^m os

New Sheet No 2 EC 19^h 52^m os
+ λ Urs Min
+ 1α Capricorni
+ 2α ———
κ Cephei
23 H Aquilae
π Capricorni
XX 174
ε Delphini
Rad 4894
1 Aquarii
226 B Cygni
+ 74 Draconis
Rad 2218 .2,3,4,5
XX 376
Arg 480
6 Aquilae B faint (clouds)
+ 61 Cygni prec
——— foll
XXI.1 major (foll)
4 B Capricorni
4 Piscis Austr ——— clouds
326 B Cygni circuit broken
+ Dra Hsp .3,4,5
70 Cygni
26 B Pegasi
122 B Cephei .3,4,5
F 376 Aquarii bad (floating clouds)
ι Pisc Austr
θ ———

next page

1865 Sept 11th Ill East (Continued)

Sheet No 2 Continued 388 B Cygni A.M.
+40° 4648 .3,4,5
XXI 320
γ Pisc Austr
711 Mayeri
32 Aquarii
+ α
μ Pisc Austr
XXI 421
XXII, 19
1 H Lacertae
Bradley 2942
γ Aquarii
XXII 81
3 Lacertae
39° 4841
32 H Cephei → 3,4,5
~~[illegible] 30 42~~
EC 22 28m 0s

New Sheet No 3 EC 22 48 0 Search for Faye's Comet by W.S. reported by A.M.

+ α Pisc Austr
+ α Pegasi
~~* + 20°~~ +20° 5278
XXIII 4
314 B Pegasi
~~[illegible]~~ +23° 4712
EC 23h 11m 0s

EC 23h 22m 0s
+ 39 Cephei H
EC 23 31m 0s

1865 Sept 12th Ill East

Sheet No 1 EC
+ δ Urs Min , 3.4.5. A.M.
EC 18h 19m 0s

EC
3 H Scuti
EC 18 30m 0s

next page

1865 Sept 12th Ill East (Continued)

Sheet No 1 Continued + α Lyrae
+ 51 Cephei H sp
EC 18h 40m os
EC 19h 11m os
59$_\tau$ Draconis
EC 19h 21m os

EC 19h 38m os
+ γ Aquilae
+ α ——
+ β ——
+ λ Urs Min 1 2 3 4
XX 6
λ Urs Min 5 wire
XX. 29
+ 1 α Capricorni signal close to 1st wire
+ 2 α ——
κ Cephei
23 H Aquilae
π Capricorni
XX. 174
ε Delphini
Rad 4894
1 Aquarii
226 B Cygni
+ α Cygni
EC 20h 44m os

New Sheet No 2 EC 20h 51m os
6 Equulei
+ 61 Cygni prec foll
XXI. 1
4 Piscis Austrini
326 B Cygni
+ 1 Drac H sp
EC 21h 19m os
EC 22h 7m os
XXII 81
Equatorial obsvr THS

Next page

1865 Sept 12th Ill East (Continued)

Sheet No 2 Continued

ε Piscis Austrini AM

δ ——————

+ α —————— {Equatorial obsn missed in 2d wire bad}

+ α Pegasi

EC 23h 4m 0s

Meridian Transits for 1865.

The stars which chiefly require observation now are the following. Wolfers' Time Stars are underscored.

In 0h	α Andromedae	} for time	
	γ Pegasi		
	ξ Cassiopejae	4 obss.	
	μ Andromedae	4 obss	
	δ Cassiopejae	2 "	after μ Andr. is obs'd
In 1h	ν Persei	1 obs	
	ν Piscium	3	
	τ Ceti	2	
	Camel 219 B	1	
	β Arietis		
	50 Cassiopejae		
	α Piscium	2	
	γ Andromedae	10	α Arietis
In 2h	θ Ceti	6	
	o "	9	
	ξ² "	2	
	ε "	7	
	γ "	5	
	41 Arietis	2	
	η Eridani	5	
	ε Arietis	12	
	α Ceti		
~~In 2h~~	β Persei	8	
In 3h	δ Arietis	9	
	12 Eridani	14	
	ξ ———	6	
	α Persei	5	
	o Tauri	3	
	γ Ursae min	5	
	ε Eridani	10	
	6 Camel H.	2	
	δ Persei	10	
	δ Eridani	14	
	η Tauri	9	
	ζ Persei	9	
	γ Eridani	2	
	θ Draconis	8	

April 4

1864 Nov 24-30 224
Dec. 300

730
336

1865 August 4 New Year.

Average about 26 stars to a page
From May 30th to Aug 10th 26 pages