

KG
11366
v. 380

*Polar Catalogue
Circle Readings - Explanatory Remarks
A3 1872-3*

Charles W. Sever, University Bookstore, Cambridge.

Pole Star observations

Chronograph Record

A 3

1872-3

a. Indium / ⁷²Nov 20 0 4 28.1 6.4
 0 01 46 Dec. 4 0 4 28.8 7.8 3 411 20.0
 +28 23

7 0 4 33.2 10.3

~~Thy Jan 1 55 2 10.8 58.4~~

6 55 1 22.7 12.0

Nov. 10 55 2 1.4 48.1

22 55 1 54.8 41.2

Dec. 1 55 2 10.7 48.3

6 55 2 6.0 58.8

10 55 1 56.3 46.8

22 Androm 1872 Nov. 20 5 19.3 47.8
 0 3 36+45-21 Dec. 4 0 1 10.1 48.8
 7 1 7.8 44.2

25- 5-5 3 52.8 36.8

1873 Jan 6 ~~55 3 50 52.2~~
~~55 3 10.4 -0.2~~

Nov. 11 55 3 38.3 24.9

22 55 3 36.8 22.1

Dec. 1 55 3 51.0 27.3

6 55 3 36.9 29.1

10 55 3 20.3 11.2

15 55 3 35.1 27.7

mag. 7.0

2 Dec

4 Debeonis 16

1206 12

78 20

101 40

Nov. 16 35 2 0.0 34.8

~~C. #9~~ Ch. ?

Nov 20 45 3 27.9 59.2

Dec. 4 45 3 45.0 17.7

7 45 3 42.8 12.6

25-40 1 18.0 52

1873 Jan 6 40 1 18 56.3

Nov X 40 1 56.9 45.8

Dec. 1 40 0 59.9 39.7

10 40 0 59.7 52.4

15 40 1 13.4 12.1

fall

In. 29

0.2900 + 16.14

Nov. 16 10 3 55.6 32.0
 17 10 3 0.0 33.2
 20 10 4 6.0 39.8
 Dec. 4 10 4 7.9 41.2 3 33.8 67.7

25 5 1 10.8 53.0

1873 Jan 4 5 1 3.0 48.8

Nov. 10 6 5 1 2.3 8.8
 5 1 23.7 9.0

Dec. 1 5 1 26.6 2.2

6 5 1 25.5 17.0

10 5 1 11.3 0.2

15 5 1 9.6 1.8

C. C. C.

1872

0 12 52 187 Nov. 16 55 3 40.9 29.1

-9 33

17 55 3 41.0 28.6 Last A₊ 1

20 55 3 38.8 24.2

Dec 25 50 0 20.5 0.5

1873 Jan 1 50 0 21.2 13.3

4 50 0 37.9 21.0

Nov. 10

50 1 11.6 51.9

Dec. 1

50 1 8.9 39.9

6

50 1 16.8 2.9

10

50 1 20.8 5.3

15

50 1 17.2 5.2

Sch 9

18 27+71 06

1872

Nov. 16 20 2 19.4 55.8
 17 20 2 23.2 56.9
 20 20 2 25.1 59.7
~~25 A.R. only~~

1873 Jan 4 10 4 43 30.6

6 10 4 35.4 24.8

9 10 4 43.2 32.9

~~10 4 0.7~~

Dec. 1 10 4 44.3 18.9 new sheet

~~6 10 4 55.9 46.3 new sheet rej. A₁~~

10 10 4 40.2 28.3

15 10 4 28.2 20.6

7 mag. 1872
 0 23 38
 85 37

Nov. 16 50 1 53.9 28.2
 17 50 1 1.9 32.5
 20 50 1 47.5 19.1
 Dec. 10 50 1 45.1 10.1

1873 Jan. 1 40 4 15.1 23

6 40 4 55.1 56.0 2 slt for Ar

Nov. 18 9 40 4 27 51.2 34567

40 4 8.3 52.9

40 4 6.1 51.9

Dec. 1 19 40 4 23.0 58.9 8.5 mag.

6 40 4 14.2 73 7.0 mag

Dec. 9 40 3 59.1 54.5

10 40 4 6.2 56.3

t. bars

1872

25.43+6213 Nov. 16 10 4 32.2 67.2
 17 10 4 26.9 0.1
 20 10 4 30.5 5.1
 25 A.R.

Dec. 10 10 4 4.8 31.8

~~25.43+6213~~

1873 Jan 6 5 1 27.9 16.8

A 4 = C

Nov. 18 9 5 2 46 54.1
 5 1 53.9 38.7

Dec. 1 19 5 1 54.9 39.7
 5 1 55.3 31.6

9 5 1 40.9 34.0

15 5 1 44.9 48.4 ?

16 5 1 52.3 43.8

x2 Dec 20

0 28 50 + 109 30

1872
 Nov. 17 55 4 26.7 58.2
 20 55 4 24.2 57.0
 Dec. 10 55 4 18.2 41.9

1873 Jan 6 ~~5 1 27.9 16.8~~ 146 < @
~~= 50 15.9 52.1~~

Nov. 18 9 50 1 37.7 30.2
 50 1 29.1 16.1
 19 50 1 31.9 17.6
 Dec 1 50 2 12.4 51.1

9 50 1 23.9 20.6
 10 50 1 50.5 43.9

15 50 1 42.1 38.1

16 ~~50 49.4~~ money #

E. Anderson

0 314572837

1872

Nov. 16	50	0	35.0	15.2	
17	50	0	32.7	11.0	45 41 54.8 31.9
20	50	0	38.5	15.9	
25	50	0	31.2	14.0	
Dec. 10	50	0	42.0	13.8	

1873 Jan 4 40 2 14.6 4.4 A 2 & full

6 40 3 10.0 5.8

Nov. 15 40 3 8.4 5.5 Ch. failed?

19 40 3 5.4 5.0

Dec. 1 40 3 2.5 4.4

15 40 3 5.9 4.8

16 40 2 4.5 5.4

a bass
0 3314
+55 50

1872
Nov. 16 35 2 50.9 28.9
17 35 2 20.4 55.9
20 35 2 37.8 13.8
25 35 2 48.9 30.0

Dec. 10 35 2 54.1 23.7

~~Jan 9 25 4 57.1 39.4~~

1873 Nov. 18

30 0 14.2 58.0

Dec. 11

30 0 6.1 50.9

7

30 0 22.3 58.9

16

25 4 46.9 35.5

25 4 57.6 47.8

1872

21 bars
0 3714 + 74 14

Nov. 16 10 0 59.9 36.0

17 10 0 0.8 34.2

20 10 1 4.0 37.9

25 10 0 0.6 40.0

Dec. 3 10 0 55.8 31.1

10 10 1 8.2 36.0

1873 Jan 6 0 3 23.0 10.2

~~7 0 3 5.2 55.8~~

last 4 w.

Nov. 18 0 3 22.2 14.2

19 0 3 21.7 5.1

Dec. 7 0 3 19.9 7.7

15 0 3 28.3 19.1

16 0 3 14.3 2.9

17 0 3 21.2 10.7

1872

36012 = 42136

39 18 + 74 70

Nov. 16	15	4	30.2	7.0
17	15	4	31.3	4.1
20	15	4	34.3	8.8

25	15	4	29.8	8.0
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Dec. 3	15	4	29.2	4.2	3	55.9	30.4
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1873 Jan 6 10 1 45.7 32.7

Nov. 18	10	1	45.3	32.7
	10	1	39.8	22.7

10	2
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1	19	10	1	56.0	39.2
Dec. 7		10	1	46.9	35.8

15	10	1	41.3	32.2
----	----	---	------	------

16	10	1	48.7	37.2
----	----	---	------	------

17	10	1	33.8	21.7
----	----	---	------	------

n bars
0 41 20
+5% of

1872
Nov. 16 15 4 50.1 26.8
17 15 4 53.7 28.8
20 15 4 52.0 27.2
Dec. 3 15 4 53.0 28.1
10 15 4 36.9 5.1
1873 Jan 4 10 2 07 49.6
6 10 2 213 107
9 10 2 232 122

Nov. 18 10 2 51.2 49.9
19 10 2 10.7 55.7
Dec. 7 10 2 16.7 7.1 Comp. foll'a
15 10 1 58.8 51.1
16 10 1 24 53.8
17 10 2 13.7 3.9 rej. A₊₁

32 Camel fall. 1872
Nov. 16 35 0 13.0 47.0
23 35 0 28.0 - 1.9 both for. for L. C.
Dec. 10 35 0 17.1 42.6 both #s
1873 Jan 9 25 24.3 0 33.6 both as

Nov. 18 25 2 52.3 36.7 8 for 1st # only
19 25 2 35.6 21.0 8 for 2nd #
Dec. 7 25 2 35.2 25.3 both reg. order.
15 25 2 18.2 11.3 both reg. order
17 25 2 41.1 32.3 5 md. wires, 8 for 1st #

g bars
4900
60 01
1873

1872

Nov. 23 25

1 11.0 47.9

25 25

1 33.1 12.9

Nov. 15 15

3 31.0 15.3

Dec. 7 15

3 30.9 20.9

24 to.

16 15

3 0.1 51.9

17 15

3 49.1 40.0

240 Mr. Mi P.B.,

0. 49 01

88 20
91 40

Nov. 23 5 3

10.9 44.9

last 3. W.

Dec. 10 5 3

10.7 36.3

last 3. Wires

Jan 6 0 0

39.5 28.7

~~last 3. W.~~

Dec. 1 0 0

58.0 25.4

3 mid. wires

16 0 0

30.5 22.3

6, 7, 8, + 9.

17 0 1

44.0 24.3

7, 8, 9. rep. 1. at 8.

28 0 0

32.8 22.8

489 A-1 1 2

43 16 beph 1872 Nov. 25 50 4 16.1 52.3

0 51 38+85 1873 Jan 9 45 1 46.1 35.7

Nov. 18 45 1 43.1 27.7

19 45 1 47.0 33.3

Dec. 1 45 1 51.1 27.5

7 45 1 41.3 32.9

15 45 1 45.1 38.1

17 45 1 26.9 18.8 6, 7, 8, 9

ϵ Piscium

0 56 17 + 7 12

1872

Nov. 13 15 3 56.8 51.3

23 15 0 0.1 46.8

25 15 0 7.0 55.3

Dec. 10 15 0 56.9 34.5

1873 Jan 6 5 2 44.3 29.6

9 5 2 48.0 34.7

~~Nov. 15 5 2 34.1 16.7~~

Dec. 19 5 2 40.9 22.1

5 2 39.9 12.5

7 5 2 36.3 24.1

15 5 2 52.0 41.9

16 5 2 38.0 26.8

17 5 2 42.9 31.9

28 Ref.

1 46.7 36.1

49% b eph. 1872
 10118+1859 Nov. 13 25 3 24 39.8
 Dec 10 25 25 3 49.8 26.7
 Dec 19 20 1 59.8 48.8 lost 1st 2 Wires

1873 Jan 6 20 1 13.1 25

Nov 19 20 0 17.3 45.5

Dec 1 20 1 23.0 8.5

Dec 1 20 1 24.7 58.9

3 20 1 10.1 58.9

7 20 1 20.1 10.8

15 20 1 25.2 17.1 0 51.4 44.1

16 20 1 15.0 6.6

17 20 1 20.0 11.0

28 20 1 11.6 0.8

22 5.1
 412 2.3
 17 3.2
 740 2.2

γ Piscium

1872

10435+2924

Nov. 13	0	3	2.0	46.1	
23	0	3	3.9	41.3	
Dec. 10	0	3	6.2	36.7	
Dec. 19	55	0	18.9	9.1	
1873 Jan 6	55	0	35.6	23.1	
Nov. 15	55	0	30.9	19.6	
	55	0	32.1	15.9	
Dec. 19	55	0	27.7	12.1	
Dec. 3	55	0	33.0	21.1	
7	55	0	26.8	15.0	
15	55	0	22.1	12.9	50 4 24.1 17.1
16	55	0	28.9	20.3	
17	55	0	31.9	23.1	
28	55	0	32.3	23.1	

Polari's

1872

11 m + 8834

Nov. 13	50	0	2.2	42.1	50	0	49.3	28.7
25	50	0	56.1	32.3	50	0	43.9	20.7

Dec. 10 50

1 6.2 31.1

Dec. 17 40

3 24.2 17.9 last 3 strokes for 8

21

A.R.

long 9. T.M.

30

40 3 12.0 56.3

A-1

1873 Jan 1

40 3 26.3 13.1

6

40 3 20.5 8.9

9

40 2 21.5 10.6

A.R.

last 5 strokes A.5-4"
seconds too late

Nov. 18

40 3 25.6 11.4

Dec. 3

40 3 27.9 11.9

40 3 23.1 14.0

7

40 3 24.2 14.9

9

40 3 17.1 10.6

10

40 3 23.8 13.0

15

40 3 22.1 15.4

16

40 3 20.0 12.5

17

40 3 21.1 13.1

18

40 3 20.1 10.9

21

A.R.

long stroke for A.1
84.9.9 5 sec too late

22

40 2 33 50.6

A-1

28

40 3 22.8 12.2

Polaris

ψ_{bar} , Nov. 13 0 0 25.7 -6.1
 1-16 55+6728 25 0 0 34.2 12.1

1470 Jan 1 50 2 31.3 17.9

9 50 2 29.9 17.1

Proj

AR,

4456779

9 50 2 53.1 46.2

10 50 2 44.2 33.9

15 50 3 58.0 48.9

16 50 2 57.9 49.1

17 50 2 55.0 46.0

18 50 2 49.9 39.1

28 2 55.1 46.3

lost 2

1872

~~B. Ab 552~~ Nov 13 50 4 16.6 56.7 last 4 Wires

18 1949 1873 Jan 1 45 1 39.1 25.4 A 654321

8540

20420 P Dec. 7 45 1 27.0 17.0 8.0 mag.

17 45 1 19.8 10.9 8.5 mag.

18 45 1 18.9 10.5 7.8 mag.

21 45 1 25.9 14.9

28 45 1 32.7 22.4 A 21 A 41

Reject these observations Wrong star.

1872
 2 Piscium Nov 13 451 12.0 2.12
 1 24 37 25 451 20.9 9.2
 +14 41 Dec 19 353 35.2 20.0
 21 353 46.9 34.8
 30 353 46.3 28.2

1873 Jan 1 353 50.4 32.5
 Dec. 3 353 42.8 26.9
 7 353 50.2 34.1
 9 353 38.9 26.9
 17 353 13.3 58.9 new zero for chart.
 18 353 42.9 28.9 2 49.0 34.5
 21 353 40.0 23.3
 22 353 3.2 44.4
 28 353 49.3 34.1

40 bars
12820
7223

1872

Nov. 13 0 0 4.0 4 44.8

95 0 0 38 4 42.2

lost A. H. 2

Dec. 21 55 2 30.8 19.8

30 50.2 20.8 30

A 456789

1873 Jan 1 55 2 35.6 19.8

Dec. 3 55 2 38.1 25.1

7 55 2 16.0 4.0

~~17 55 2 18.7 6.4~~

18 55 2 36.9 25.3

21 55 2 30.8 15.9

22 55 2 15.7 6.0

28 55 2 36.8 23.9

1 1.9 50.2

~~1339~~
~~13408~~
~~+16193~~

18729
 138306
 +71 54
 108 06 1873

1872
 Nov. 13. 20 3 33.2 12.5 A₅ and foll
 Dec. 21 15 0 15.1 7.7

Dec 7	150	51.2	42.7	A 7 6 5 - u new glass for sheet
17	15 0	9.9	1.9	
18	15 0	11.0	3.1	
21	15 0	21.0	10.3	
22	150	19.3	6.9	
28	150	21.2	12.5	
30	15 0	26.5	17.7	

Perhaps wrong #

o Piscium
38 38
48 30

1872

Dec. 21 45 3 48.5 36.4
30 45 3 55.6 36.9

1873

Dec 7 45 40.0 45.9

9 45 3 ~~44.0~~ 35.1

~~17 45 3 54.9 42.8~~

18 45 4 5.9 54.0 3 3.1 57.1

21 45 3 54.1 40.3

22 45 3 59.9 44.4 2 59.8 43.9

28 45 3 8.1 55.9 2 58.1 45.2

30 45 3 0.9 49.6 2 59.9 46.9

1872

Gr. 2063
 13 45 49
 143 2 4
 96 3 6

Date	50	2	26.0	5.0
Nov. 13	50	2	26.0	5.0
Dec. 21	40	4	29.0	19.8
30	40	4	25.1	9.0

1873 Dec 7 ~~49.4 2.38~~ 12.9 ~~12.8 4.5 1.7 6~~
 9 40 4 10.8 5.0 5 middle wires
 17 40 4 37.0 27.4
 21 40 4 42.9 31.1 3, 4, 5, 6, 7
 22 40 4 41.0 27.0 0 1.8 4 48.9
 28 40 4 26.6 16.1 A. 9, 8 & 4, 3, 2, 1.
 30 40 4 42.0 31.7

2 bars
1 4508
+63 02

1872 Dec. 30

15 3 10.0 53.7

1873 Jan 29

15-3 11.0 55.0

Dec. 17

15-2 44.5 33.2 ref. 1-1 8

ln. 404 Nov. 13 10 0 53.1 32.2
 150 04 Dec. 3 10 0 43.1 16.1
 +77 18 117230 0 2 59.1 42.8

1173 Dec 7 AR

Dec. 9 0 3 10.0 1.7
 21 0 3 11.5 57.0
 22 0 3 12.1 57.4 lost A1
 28 0 3 13.6 1.2

50 loc 1822
 15233 Dec. 30 30 2 44.8 26.1
 +71 98 183 Jan 29 30 2 45.1 29.3

1853 Dec 7 40 0 56.4 43.7
 9 30 2 44.9 35.9
 10 30 2 42.2 28.3
 21 30 2 43.0 28.9
 22 30 2 38.8 22.5
 28 30 2 40.9 26.7

Perhaps wrong #

J. Audion

1 56 01 Nov. 13 40 4 19.9 5.0

+41 431872 Dec. 3 45 0 54.0 34.2

1473 Jan 4 35-2 27.8 15.3

29 35 2 25.7 10.0

Feb. 2 35-2 19.6 4.0

Mar 7 35-2 33.9 20.8

9 35 2 20.0 12.9 J1, J2 in H. R.

10 35 2 20.7 7.0 both S. pr. 2nd # pr.

21 35 2 19.5 5.8 both 2nd S. pr. 1 18.0 3.9

22 35 2 25.5 10.4 both, 1 stroke for each S

28 35 1 34.1 16.5 12th X

at ¹⁸⁷² ~~Nov 13~~ 35 0 45.5 308
 15958 Dec. 3 35 1 10.9 48.7

+225 ~~Jan 4~~ 25 3 380 263

29 25 3 52.8 372

Feb. 2 25 3 31.2 14.8 ^{Rij} 4, 12 0

Feb. 5 25 3 12.3 5.0

Dec. 9 ^{Decy}

^{A.R.} 25 3 43.9 34.8

10 25 3 48.1 35.1

21 25 3 42.1 29.0 2 44.6 30.3

22 25 3 45.1 30.1 2 39.0 24.0

28 25 3 44.9 31.0

30 25 3 40.9 30.3

β Trianguli 1872
 Nov. 13 0 4 49.0 35.0 lost A₇₁ 1
 Dec. 3 0 4 58.9 39.0
 +34 23 1873 Jan 4 55 2 19.8 6.3

29 55 2 28.8 12.2

Feb 2 2 55 2 28.8 11.4

Dec. 9 5 55 2 25.7 14.9
 10 55 2 27.1 17.8
 11 55 2 15.8 2.7

21 55 2 26.1 12.1 1 25.9 11.9
 22 55 2 21.2 5.7 1 29.7 13.5
 28 55 2 21.0 7.8

1872
 Sch. 109 ~~Nov. 13~~ 20 2 16.1 54.2 P lost 1st W.
 20600 ~~Dec. 3~~ 20 0 33.3 42.0
 1873 ~~Dec. 9~~ 10 2 52.0 45.0
 17943 10 10 2 59.5 48.3
 79 55 22 10 3 3.9 49.7 8.0 mag.
 80 08 28 10 2 0.7 50.0 2 27.2 16.9

1872
 4 Pua Min ~~Nov. 13~~ 35 3 51.1 43.0
 20923 ~~Dec. 3~~ 35 2 52.0 24.6
 1873 Jan. 4 30 0 13.1 45.9
 17809 ~~Dec. 9~~ 29 30 0 25.6 14.7
 10151 30 0 52.7 49.0
 10 30 0 2.9 54.5
 22 30 0 24.5 13.1
 28 30 0 14.0 6.1 0 34.3 27.1
 29 30 0 7.6 -2.5 0 27.0 21.9

o bti ¹⁸⁷² Nov. 13 A.R. star faint
2 12 50 2 Dec. 3 0 0 26.5 13.1 8.5 mag.
- 3 29 1873

c' bass ¹⁸⁷² Nov 13 35-3 41,0 21,6
 21 28 Dec 3 35 3 50.8 25.4
 +66 49 21 30 1 6.9 56.3
 1873 Jan 4 30 1 7.0 56.5
 6 30 1 14.9 63.9

29 30 1 10.1 55.0
 Dec. 10 Rsh. 5 30 0 27.7 30.0 Rj 1st str A 1
 22 30 1 6.6 53.9
 29 30 1 6.9 51.9 0 32.6 18.1
 30 0 2.1 53.9 0 26.2 18.0

36 76 bars Nov 13 1872 10 2 51.5 31.3 1872
 2 25 14 Dec. 3 10 3 6.5 40.5
 +72 15 1873 Jan. 4 5 0 19.8 9.5 1873
 6 5 0 14.5 2.2
 9 5 0 27.9 14.9

Feb. 5 29 5 0 30.6 13.5
 Dec 10 Dec 10 5 5 0 -57 -17.5 Δ 9.5 Δ +1
 22 5 5 0 27.0 13.2
 0 4 53.1 37.2 A-,

5- Mrs. Smith Nov. 1872 = 0 5.1 43.8 1872
 2 2750 Dec. 3 45 0 3.1 436.0
 +76 16 1873 Jan. 4 35 2 24.8 15.7 1873
 103 44 6 35 2 18.6 9.1
 9 35 2 20.4 10.2
 2935 2 870 24.3
 Dec. 10 Feb. 2 35 2 33.6 18.9
 22 35 2 29.3 19.0
 35 2 35.0 22.9

1672
 1873
 2 31 32
 +21 24
 Dec. 13 0 3 2.9 47.7
 Dec. 3 0 3 9.5 48.9
 Jan 4 55 0 41.5 27.6
 55 0 41.5 27.3 0 3.9 50.1
 7 55 0 37.1 22.0
 9 55 0 40.8 27.1
 20 55 0 39.4 22.1

Feb. 6 55 0 28.1 17.9
 Dec. 10 55 0 39.8 25.1
 22 55 0 41.5 24.0 50 4 44.0 28.2

O. Persei 1872 Nov 13 45-1 314 12.0
 2 35-28 Dec. 3 45-1 47.0 21.9
 +48 41 8 23 35 4 13.2 59.3
 1873 Jan. 9 35-4 18.0 53
 Jan 12 35 4 9.3 53.7
 29 35-4 20.6 6.7
 Feb. 4 2 35 4 21.5 6.7
 Dec. 10 5 35 3 30.8 22.2
 22 35-4 18.9 6.5
 35-4 24.2 8.8

Gladi 1
 2 36 27 42 41 1872 Nov. 13 45 0 18.8 6.6
 Dec. 3 45 0 29.1 12.1
 23 35 2 57.9 42.9
 1873 Jan. 7 35 2 0.8 45.2
 Feb. 5 AR
 Dec. 10 35-2 55.9 42.0
 22 35 2 58.5 41.2

Sch 853 1873 Jan 7 30 3 0.4 50.0

237 30

+80 12

99 49

29 30 4 21.4 10.1

Feb. 2 30 4 21.4 7.2

5 30 4 16.1 8.7

22 33 4 20.5 7.1

last - 9 8

A 6 = 0

21 A - 1

A 3, 2, 1 + A + 1

2 Persei 1872 Dec. 23 55 3 46.5 33.9
 2 41 15 1873 Jan 7 55 3 47.9 35.3
 +55 22 9 55 3 44.2 32.3
 12 55 3 41.8 26.5
 14 55 3 44.8 35.7
~~29 55 3 36.0 20.6~~

Dec. 22 Feb. 2 55 3 41.2 25.5
 55 3 44.6 30.3

F. Persei

2 45 10 + 52 14872

1872

Dec. 23

5 1

12.0 0.9

Jan. 7

5 1

6.2 51.9

9 5 1

7.3 55.2

112 5 1

12.9 58.1

14 5 1

17.1 807

29 5 1

16.7 2.2

Dec. 22

Fish, 2

5 0

4.1

48.6

5 1

14.8

0.0

0 14.2

0.9

4776 Cephe.

1872 Dec. 23 25 1 30.9 15.2
 2 49 10 1873 Jan. 12 25 1 13.1 58.9
 77 54 14 25 1 14.4 5.8

29 25 1 35.4 22.1

Feb. 2 25 1 17.1 -0.5
 Dec. 22 25 1 19.8 4.7

Blue Min

1872 Dec. 23 0 2 25.2 12.9
 2 51 06 1873 Jan. 7 0 2 9.0 59.8
 74 41 9 0 2 14.1 3.0
 105 19 12 0 2 32.1 20.3

14 0 2 14.2 7.8
 19 0 2 40.1 29.3 lost 1st 11.11

29 0 2 32.8 19.3

Dec. 22 Feb.

02 0 2 45.0 30.2
 0 2 29.1 14.9

lost 1st 11.11

0 2 51.2 38.9

a beti

2 55 35
+ 3 35

1872 Dec. 23 40 4 36.2 21.9 rej

1873 Jan 12 40 4 32.0 16.0

14 40 4 30.7 19.4

19 40 4 18.6 56.9

Dec. 18 40 4 32.9 20.0

Dec. 22 40 4 35.5 18.9

(get Q Persei)

Inserted
B. 1872 Dec. 23 50 4 6.0 56.1
3 02 28
84 28

P.B. 1872

Dec. 23 50 4 6.0 56.1

1873 Jan 1 50 3 56.5 44.0

12 50 3 56.0 42.5

14 50 3 58.8 45.3

19 50 3 55.8 45.1

Dec 16

A.R.

get 2 fully before
this

1872
 Q Persei
 2 56 54 112 Dec. 23 0 4 45.5 31.0
 + 38 20 1872 Jan 29 55 4 46.0 29.1

Feb 1

✓ R

Dec. 18 55 4 48.2 37.9 3 48.5 37.6
 22 55 4 48.1 32.1 3 48.8 33.1

β Persei

2 59 50 1872 Dec 23 50 2 37.8 23.0
 + 40 27 1873 Jan 7 50 2 48.9 34.2
 9 50 2 44.8 32.2
 12 50 2 45.3 23.9
 14 50 2 40.4 31.1
 16 50 2 49.8 37.2
 19 50 2 47.0 33.9
 29 50 2 47.6 30.9

Feb. 1 ✓ R

Dec 16 50 2 46.3 35.8
 22 50 2 35.4 20.3

4876 bophei 1872
 3 04 10
 +77 15-
 1873
 Dec. 23 5 0 13.5 57.1
 Jan. 1 5 0 10.8 55.9
 Jan. 12 5 0 8.2 52.8
 14 5 0 4.5 453.9
 16 5 0 8.4 55.3
 19 5 0 9.0 55.5
 3 mid wires.

Dec 16 0 4 60.2 50.3
 18 5 0 9.0 57.5 new sheet
 Dec. 29 5 0 6.4 55.2

ln. 2218
 15 04 14
 84 26
 95 35
 1872 Dec. 23 45 3 15.1 1.1 Last 4 wires
 1873 Jan. 1 45 3 10.8 57.1 11 3 wires
 7 45 3 10.2 1.8 11 4 11
 9 45 2 59.9 49.2 lost 1 $\frac{2}{11}$ 2 wires
 14 45 2 58.9 51.2
 Dec. 18 19 45 3 6.0 54.7 last 4 wires
 45 3 7.2 57.8 A 8.9 + A +1
 Dec. 29 45 3 7.3 58.9 2, 1 + A +1

J. A. 1872

3 7 3 3 1873

+2034

Dec. 23 45 0 57.2 41.1

Jan. 1 45 0 57.8 43.2

12 45 0 29 46.0

14 45 1 6.9 55.2

16 45 1 6.9 51.9

19 45 0 57.8 41.7

Feb. 1

L.R.

Dec 16 45 1 09 48.5

18 45 0 54.9 43.2

Dec. 29

45 1 7.3 56.2

40 4 47.1 35.7

0 14.7 4.3

BAE 5018
 (16 hrs min)

3 13 08

67 50

12 10

Dec 23 10 2 31.8 22.0

30 10 2 6.0 50.9

Jan. 1 10 2 18.6 9.3

Jan. 12 10 2 18.1 4.1

14 10 1 58.1 52.2

19 10 1 53.0 45.8

Dec 16 10 2 20.7 15.2

18 10 2 22.0 5.9

29 10 2 15.7 11.1

a Persei
 3 15 10
 +49 44

Dec. 30	55	1	14.0	56.2		
Jan. 1	55	1	4.0	50.9		
4	55	1	2.2	49.8	after stop of oh.	
6	55	1	14.2	2.2		
14	55	1	10.8	2.0		
Feb. 1	55	1	14.3	15		
Dec 16	55	1	19.2	10.8		
18	55	1	20.8	12.1	0	16.2 7.7
Dec. 29	55	1	14.8	7.2	0	33.1 25.4

(B.A.C.)
 140 hrs Min 1/22 Dec 230 4 28.3 14.8 Lost 9.78 Alter rate

3 18 58

87 43

92 17

1/23

30

A.R.

Jan. 10 4 22.5 10.5 5 Mid. Wires

6 0 4 16.6 6.7 5 mid. w.

Dec 16

A.R.

richmond
 mid. W & Goll.

In his Mini

32100

72 18
107 421273
Jan. 135 4 36.7 25.1
6 354 14.3 70

Dec 16 354 138 58

92642

1872 Dec 30

A.R.

3 23 57

1873 Jan. 1 5 1 55.0 42.1

86 14

6 5 1 45.6 33.1

28 5 1 35.3 26.2

Dec 16 5 1 51.4 42.4

ϵ Eridani

3 2615

-9 54

1412 Dec. 30

1423 Jan. 1

A.R.

10 2 13.2 56.2

Feb. 4

10 2 24.9 8.2

J. R.

h. 7/16
3 31 02
62 48

1472

Dec. 30

A. R.

1873 Jan. 1 30 2 42.2 28.9
28 30 2 ~~30.1~~ 28.1

Dec. 29 Tsk 4 30 2 27.8 18.3
30 2 43.7 33.6 2 8.7 589

1872
Peru Dec. 23 55 2 56.2 41.5
 3 88 48 30 A.R.

+44 23 1873 Jan. 1 55 2 55.8 41.9
 14 55 2 58.2 48.3
 28 55 2 49.8 36.9

Feb. 4 55 2 39.6 30.9
 Dec. 29 55 2 1.4 57.5 1 58.3 48.1

1872
 15 *Nix Min* Dec 23/5 3 11.6 59.8
 30 *A.R*
 35 15 1873 Jan 1.5 3 9.1 57.5
 +77 46 14 5 2 57.8 50.8
 102 14 28 5 2 56.7 49.1
 Dec. 29 5 3 20.2 13.7

2.14 *A*₊₁

1872
 5 *N Camel* Dec. 23 25 0 52.3 4 36.9
 30 *A.R*
 3 36 40 1873 Jan 1 20 4 53.3 4 38.8
 +70 56 Jan 12 20 4 26.1 5.0
 14 20 4 42.7 31.1
 28 20 4 33.9 20.7
~~Feb 4 20 4 27.7 15.8~~
 Dec. 29 20 4 39.1 27.9

2 Jani 1872

3 39 50

+23 42

Dec. 23 35 2 48.7 33.8

30

A.R.

1873 Jan 1 35 2 37.9 21.5

12 35 2 40.4 24.1

14 35 2 45.1 34.9

28 35 2 44.3 28.9

Tsh. 4 35 2 07.8 26.9

Dec. 29 35 2 45.3 35.1

27 Jani 1872

3 41 32

+23 39

Dec. 23 40 0 31.9 18.2

1873 Jan 1 40 0 28.0 15.1

12 40 0 36.8 20.9

28 40 0 32.9 21.0

Tsh. 4 35 0 26.1 15.6 same 30

Dec 29 35 0 35.2 28.0 4 44.4 35.6

1872
 9 Camel Dec. 23 35 1 50.2 35.0
 3 46 12 1873 Jan 12 35 1 43.7 27.9
 +60 44 28 35 1 16.9 5.1 Lost 14.2
 Feb. 4 35 1 31.6 25.0
 Dec. 29 35 1 58.3 48.7 1 18.9 9.7

1872

5th Min

Dec 23 30 2 48.9 35.2
 15 88 38 1873 Jan. 12 30 2 38.3 25.9
 +78 11 ~~28 30 2 32.0 23.5~~
 101 49 Feb. 4 30 2 28.9 25.2
 Dec. 29 30 2 43.2 36.5

E Persei 1872

Dec. 23. 55 0 5.0 451.1
 13 50 36 1873 Jan. 12 55 0 6.1 450.3
 +35 25 28 55 0 3.1 451.0
 Feb. 4 55 0 39.8 50.1
 Dec 29 55 0 8.1 58.5

7 Lami
3 53 32
+12.07

7873
Jan. 6
12
Dec. 29

10 1 26.9 11.1
10 2 25.0 6.0
10 2 33.9 20.9

1 38.9 26.1

$\ln 150$ PB reject.
 $35700?$ Jan 60 ~~0 463 36.3~~
 $+8513$
 9447
 (9415)

$+225$ Mrs Min PB
 35707
 -8513

$+47^{\circ}17'$
 ① Persei
 3 59 21
 +47 22

1873

Jan 4 55 3 19.8 7.5
 6 55 3 11.0 47.2

9 55 2 57.6 38.8

9 20

Dec. 29 12 55 3 20.4 5.2
 55 3 28.9 18.2

= Jan. 230 = ln. 779
 4 04 53
 + 80.30

1873

Jan. 4 50 0 14.7 4.2
 6 50 0 12.1 0.4
 9 12 45.4 70.3 5.2
 Dec. 29 50 0 15.9 1.7
 50 0 17.1 8.9

ln. 2320

16 06 00
 68 09
 111 51

1873

Jan. 4 30 1 49.8 42.2 lost 948
 6 30 1 42.3 34.9
 12 30 1 44.1 32.9 lost 1st W
 Dec. 29 30 1 50.1 48.0 A 3.2, 14 A₇₁

54 Persei

4 12 65

+34 15

8 Tauri

4/12 54

+15 19

Jan. 4	5	0	4.0	50.0
Jan. 7	0	1	5.2	46.8
14	0	1	14.2	60.1
29	0	1	8.9	43.7
Feb. 5	0	0	55.2	42.0
6	0	0	7.9	15.1

19 Mus Min

4 14 32

+76 12

103 48

1873 Jan. 4 30 3 36.5 26.8

6 30 3 43.2 32.8

7 30 3 46.1 35.0

9 30 3 50.1 39.9

14 30 3 36.3 27.9

Jan. 29 30 3 35.9 20.4 bad obsn.

Feb. 5 30 3 32.2 25.8

6 30 3 44.1 40.2 2nd. W. + folk

Sauri

4 15 30

+17 14

Jan. 4	5 0	52.0	35.12
6	5 0	37.9	22.2
7	5 0	36.9	18.0
22	5 0	16.1	2.5
29	5 0	36.5	15.7
Feb 5	5 0	42.1	29.1

lost 1st wire

6 W

1873
 62828
 41847
 +72 15~

Jan. 4	5 0	56.7	43.3
6	5 1	5.7	51.9
7	5 1	6.2	51.7
9	5 0	55.0	44.2
122	5 0	49.1	38.5
29	5 1	5.9	48.9
Feb. 5	5 0	54.9	44.9
6	5 0	51.9	44.0

1873
1 Camel
42150
+53 38

Jan. 4

40 2 2.8 50.8

6 40 2 43.5 30.5

7 40 2 40.9 26.2

9 40 2 41.9 29.3

122 40 2 37.2 31.8

29 40 2 53.8 36.9

Feb. 5 40 2 41.9 32.9

6 40 2 32.8 25.0

Both #'s

" " " reg order for 8

" " " "

2 and 11

fold #

" "

" "

a Luni
4 28 33
+16 14

1873

Jan. 4 5 0 6.8 4 49.9
6 5 0 10.9 4 53.9
7 5 0 5.8 4 47.2
9 5 0 0.4 4 44.1
12 5 0 37.7 4 42.8
Feb. 9 5 0 7.1 4 55.7
13 5 0 5.8 4 48.7
18 5 0 9.4 4 54.6

new sheet

Procc
4 28 20
+69 03
100 57

1873

Jan. 29 25 0 4.3 4 56.5
Feb. 5 25 0 19.3 15 lost ~~1st~~ 9+8
6 25 0 512 216
17 25 0 128 6.0 A 2, A₋₁

G. 848

43131

+15 (42)
~~35~~

1873

Jan. 4 35 3 45.2 31.8
 9 35 3 46.0 33.2
 19 35 3 45.1 28.5 lost 2+4
 22 35 3 41.2 30.8
 29 35 3 57.0 39.3
 Feb. 5 35 3 59.7 49.0
 6 35 3 34.0 25.0 And. gr. 5 Wires.
 9 35 3 46.2 36.0
 13 35 3 40.1 26.8
 18 35 3 44.0 32.3

G. 2372

43248

+1914

10045

1873

Jan. 9 35 0 48.6 36.9
 14 35 0 34.8 25.8
 19 35 0 47.8 35.2
 22 35 0 47.3 39.1 lost 1st wire
 29 35 0 40.9 30.3
 Feb. 5 35 0 47.9 41.8
 6 35 0 46.9 43.2
 17 A.R.

S. F. Jauri
4 34 33
+22 42

1873

Jan 4	35	2	29.9	16.0
9	35	2	31.1	17.9
19	35	2	40.9	26.8
22	35	2	35.3	25.0
29	35	2	33.8	16.2
Feb 5	35	2	7.0	57.1
6	35	2	32.0	23.3
13	35	2	48.1	34.3
17	35	2	27.5	16.3

8

ln 2373
 4 3804
 +7741
 10219

1873

Jan. 4 0 3 12.8 34.0
 9 0 3 36.3 26.4
 19 0 8 38.1 28.0
 22 0 3 32.7 25.0
 29 0 3 37.8 24.0
 Feb. 6 0 3 25.1 21.5
 18 AIR,

Ref  Cor 1-887

1873

9 4 Camel
 4 3720
 +5632

Jan. 4 45 41.8 48.7
 9 45-3 53.0 41.8
 19 454 7.8 53.7
 22 45 3 50.9 40.3 lost 1st
 Feb. 6 45 3 58.6 51.1
 13 45 4 8.7 55.3
 17 45-3 50.2 37.8
 18 45-3 31.4 19.9 Cor 1-2

1872
 uDridani Jan. 4 45 3 59.5 44.7
 4 39 03 9 45 4 8.1 51.8
 - 3 30
 / 4 45 3 234 87
 19 45 4 7.8 51.1
 22 45 4 5.2 51.3
 Feb. 6 45 4 4.3 53.5

9 Camel
44113
76607

1873.5

Jan. 4 10 3 27.0 11.1
9 10 3 34.0 20.2
14 10 3 29.0 18.4
19 10 3 32.5 17.8
22 10 3 25.9 15.3
Feb. 4 10 3 24.6 16.1
6 10 3 30.6 22.2
8 10 2 1.2 56.9
10 10 3 13.7 58.2
17 10 3 28.3 17.2
18 10 3 18.7 7.4

π^1 Orionis

1873

44420

+5 23

Jan. 9

55 1 458 31.5

14

55 1 449 31.6

19

55 1 49.9 33.7

22

55 1 51.1 38.0

Feb. 4

55 1 49.0 37.4

6

55 1 49.0 39.1

8

55 1 44.6 37.6

10

55 1 16.5 58.1

13

55 1 39.3 23.1

18

55 1 44.7 31.8

1873
C. Aurigae Jan. 9
4 48 36
+32 58

20	2	45.5	31.1
14	20	2	34.8 23.5
19	20	2	38.0 22.9 (get next #)
22	20	2	37.9 27.4
Feb. 4	20	2	45.8 36.1
8	20	2	44.8 40.1
10	20	2	49.0 32.0
13	20	2	44.9 30.9

hr 2391
4 48 43
57 48
102 17

1873
~~Feb. 6~~ 5 0 26.1 21.9
Feb. 17 5 0 26.8 18.9
18 5 0 29.9 22.9
23 5 0 51.1 42.2

Bad seeing

10th camel Jan 14 1873 5 0 45.2 35.0
 4 51 58 22 5 0 34.5 24.3
 +60 15⁻

Feb. 4 5 0 36.8 28.0 A. 1, 2, 3, 4

6 5 0 37.5 30.9

8 5 0 22.2 17.8

10 5 0 51.1 35.4

13 5 0 45.1 38.0

18 5 0 32.5 23.1

23 5 0 84.9 21.9 Reg. A.

1873
 J. Aurigae Jan 14 25 2 58 54.2
 45328 22 25 2 11.0 59.9
 79053 Feb 6 25 2 13.0 5.1
 8 25 2 12.4 7.8
 18 25 2 6.9 55.6
 23 25 1 42.2 27.7

i Luni
455 23
+21 24

1873

Jan. 22
Feb. 6
13
23

55	0	1.1	48.3
55	0	59.0	50.0
55	1	3.0	46.8
55	0	50.1	328

1873
Refugee

4 54 28

+41 0 4

Jan. 22

Feb. 6

13

23

15 1 56.2 45.9

15 1 57.9 50.0

15 2 51.0 52.1

15 1 54.4 39.8

2 Mus. Mini

1873

45910

82 15

97 45

Jan. 22 35 0 58.9 49.7

29 35 1 10.3 52.1

Feb. 6 35 0 59.0 52.7

10 35 1 25.2 13.7

18 35 1 5.2 55.5

23 35 1 13.1 0.3

lost 9 8.7

med. W + full

in - fail

19 Camel

1873

5 01 22

+79 04

Jan. 22 15 1 22.5 11.9

29 15 1 37.2 19.5

Feb. 6 15 1 20.9 13.8

10 15 1 22.9 7.1

13 15 1 21.5 7.9

17 15 1 23.8 14.0

18 15 1 16.8 6.8

23 15 1 17.8 3.6

λ Eridani

5-0259

-8 5-5-

Jan. 29

10 4 40.1 19.3

Feb. 13

10 4 42.5 25.0

18

10 4 40.1 24.1

Y

w Aurigae

1873

504 36

438 20

Jan, 22 0 0 34.4 24.2

29 0 0 43.2 26.1

Feb. 6 0 0 38.4 29.0

13 0 0 35.5 21.0

18 0 0 36.9 25.5

23 0 0 43.5 28.2

a. Annyae

5-0710

+45-52

1873

Jan. 22	25	3	37.2	26.9
29	25	3	46.2	30.3
Feb. 13	25	3	48.0	34.1
18	25	3	36.1	26.0
23	AR,			

u Aurigae 1673

504 36

438 20

Jan. 22	0	0	34.4	24.2
29	0	0	43.2	26.1
Feb. 6	0	0	38.4	29.0
13	0	0	35.5	21.0
18	0	0	36.9	25.5
23	0	0	43.5	28.2

a. *Amegae*

5-0710

+45-52

1873

Jan. 22

25 3 37.2 26.9

29

25 3 46.2 30.3

Feb. 13

25 3 48.0 34.1

18

25 3 36.1 26.0

23

AR,

P. Quin
 5-8 21
 -8 21

1873

Jan. 22

40 0 37.9 —

29

40 0 40.5 19.8

13

40 0 42.8 23.8

18

40 0 38.6 24.7

23

354563 419

Per A 1
 1

P. Orionis

3-11 21

-6 59

1473
Jan 29
Feb 13

18

23

15 3

15 3

15 3

15 3

36.9 17.0

45.8 27.5

40.2 26.0

45.6 30.4

ln 2437
5 18 12
+ 71 56
108 03

1873 Jan. 22 15 2 340 22.3
Feb. 18 15 2 27.7 20.2

B. Ab.
 1662 Mrs Min (P.B.) Jan 22 10 3 45.9 37.3 last W's 247 ✓
 Feb 5 10 3 19.2 15.1 2nd W's foll
 19 10 3 29.4 21.3
 20 A R.

Op. 966 1873 Feb 13 20 3 56.0 39.9
 5-22 30 20 A R 522 6359
 +74 5.7 23 20 3 54.9 39.1

Orionis
5-25-25
-0 24

1870
Jan. 29
Feb. 2
8

40	3	37.7	17.0	
40	3	18.7	55.1	5 Wined
40	3	46.1	38.1	
19	40	3	10.8	57.9 9 W
22	40	3	13.8	57.9
23	40	3	38.8	21.1

1st
 4 Orionis
 5-27 41-
 + 9 24

1873
 Jan 29 55 1 4.1 43.7
 Feb 2 55 0 2.0 42.2
 8 55 0 2.1 53.2
 19 55 1 0.9 49.7 Sum
 20 A.R.
 23 55 0 0.6 42.8

Σ Orionis 1873
 Feb 23 35 2 4.0 45.5
 5 29 95 24 40 3 1.2 41.9
 -1 17

f Procoris
 5-2230
 168 49
 111 11
 43

1673
 Jan. 29
 Feb. 2
 8
 19
 20

Mar. 6

35 1 11.9 59.1
 35 0 26.0 12.6
 35 0 16.9 16.0
 35 1 35.1 32.9

AR

Rej obs of m. #
 cont 9876

35 1 2.6 -1.3 A-3

O Aurigae

6 3 5 5 5

+49 46

37

1873

Jan. 29

30 4 7.8 53.5

Feb. 2

30 4 41.9 27.0

8

30 4 32.0 28.0

19

30 4 30.8 22.9

20

AR,

23

30 4 37.1 28.2

Mar. 6

30 4 35.1 25.5

W D rocc 1573

5 3442

+68 49

112 31

Jan. 29

10 2

11.9

57.2

Feb. 2

10 1

35.0

21.0

8

10 1

8.9

7.1

19

10 1

35.4

29.9

20

AR,

23

10 1

25.2

14.8

25

10 1

42.1

35.3

march

10 1

45.0

40.8

A1

A1

-1

130 Lamin

1873

5-39 5-6

7/17 41

29

Feb. 2

8

19

20

23

25

Mar. 5

6

35 4 27.3 7.3

35 4 15.5 56.3

35 4 27.9 19.1

35 4 36.3 23.9

~~35 4 36.3 23.9~~

35 4 36.1 18.0

35 4 27.9 12.8

35 4 34.6 19.8

35 4 27.9 14.1

2. Surveys
 5-42 33
 +39 07

1873

Jan. 29

10 3 2.3 44.4

Feb. 2

10.4 9.9 52.1

8

10 3 57.0 50.6

19

10 4 9.0 -1.5

20

AR,

23

10 4 4.8 46.9

25

10 4 3.8 50.0

Mar. 5

10 3 59.8 47.2

6

10 3 59.5 47.8

ψ Draco
5-44 14
+72 13
107 47

1873

Feb 2

8

19

20

23

25

Mar, 5

6

4

35 0 13.8 56.0 pr. Last 12th 2 17th

30 4 54.1 51.6 Last # on sheet

30 4 52.7 45.0

AR

35 0 1.5 47.9 pr. # P.

35 0 12.0 - 2.0 8 for foll. # pr. P.P.

35 0 159 87 A-1

30 4 59.3 53.2

43 2 1

aldrionis

5-4812

+7 22

1873 Feb 2

8

55 2 10.9 52.0

55 1 40.0 33.0

19

55 2 10.8 0.7

20

Apr 2.

23

55 2 16.0 58.1

25

55 2 8.5 52.9

26

55 2 12.9 59.9

Mar. 5

55 2 10.8 57.4

6

55 2 14.3 2.7

P. Suriniae

6-50 54

+44 56

1873

Feb. 2

20 4 50.9 33.1

8

20 4 15.2 9.5

13

20 4 33.8 19.1

19

20 4 41.5 31.2

20

AR.

23

20 4 51.8 35.4

25

20 4 43.1 30.9

26

20 4 36.3 24.4

Mar 4

20 4 32.2 21.2

5

20 4 27.7 16.3

6

20 4 41.2 31.0

85 Dronis 1873
 Feb. 8 20 0 0.0 57.5
 5-55-14 13 20 0 5.1 56.0
 +76 59 20 ~~AR~~
 103 01 25 20 0 14.9 5.4
 26 20 0 29.9 22.2
 Mar 4 ~~AR~~
 5 20 0 11.2 4.2
 6 20 0 27.8 23.2

B.A. 1879
 1879 Mar Mini 1873
 Feb. 8 35 0 21.9 6.2 Lost 1st 3 Wires
 5-56-01 13 35 0 23.7 9.0 " " " " 3 wires
 86 46 19 35 0 23.3 15.2
 20 ~~AR~~ Cont-1 2 3
 25 35 0 17.8 6.1
 Mar 4 35 0 15.2 4.9 Are free Right now
 5 35 0 15.5 9.4 l 1 2 3
 6 35 0 17.0 10.1 Ind. W. & Goll.

✓ *L. Orionis*
 6 0 13
 +14 47

1873
 Feb. 8

13

18

19

25

March 5

6

30 3 18.1 8.8

30 3 28.7 9.1

30 3 13.5 59.9

30 3 21.7 8.7

30 3 25.5 9.8

30 3 25.8 11.2

30 3 25.0 12.9

H7

226 Camel.

6 04 39

+6 9 22

+69 22

1873
Feb. 8

13

19

20

22

24

25

26

March 4

5

6

55 4 8.1 2.1

55 4 23.8 10.1

55 4 19.1 10.5

AR,

55 4 25.5 13.0

55 4 20.2 —

55 4 23.4 11.1

55 4 17.0 6.9

55 4 14.9 4.0

55 4 12.8 2.9

55 4 20.3 12.6

2 *Geminor.*6 0706
+22 32

1873 Feb. 8

45 2 51.0 45.0

10 45 2 7.9 50.9

13 45 3 0.8 44.8

17 45 2 53.0 41.9

18 45 2 56.9 45.0

19 45 2 55.2 45.6

25 45 2 50.0 35.1

26 45 2 55.9 43.0

March 4 45 2 52.6 41.3

5 45 2 49.0 36.4

6 45 2 48.0 38.0

Ind. M. + fall

2 *Lyncis*6 0815
+59 03

1873 Feb. 8 15 2 26.5 20.3

~~10 45 2 7.9~~~~Ind. + fall M's~~

10 15 2 4.5 48.0 A+2

13 15 2 33.4 17.2

17 15 2 33.0 22.0

18 15 2 36.5 27.0

15 15 2 4.7 54.8

25 15 2 37.5 24.8

26 15 2 34.0 22.0

March 4 15 2 32.8 21.6

5 15 2 31.9 21.0

6 15 2 27.9 19.0

m in fall

Miss Min
18 13 37
86 36
93 24

1873

Feb.	55	2	5-3.7	440
6	55	2	39.1	32.9
8	55	2	26.0	21.9
10	55	2	42.5	27.7
13	55	2	38.0	25.1
17	55	2	28.7	19.0
18	55	2	31.0	22.9
19	55	2	25.7	17.2

20

A 12.

22

55 2 39.5 26.9

23

55 2 51.1 34.0

lost 1st 3 W's

24

55 2 40.2 25.0

25

55 2 33.0 21.1

rej. 1st 8

26

55 2 30.9 21.3

March 4

55 2 38.1 27.9

5

55 2 35.9 26.8

6

55 2 27.8 20.8

7

55 2 30.5 29.9

last

8

55 2 43.0 42.0

last 3 wires

9

55 2 57.0 50.9

A, 2, 1.

10

55 2 57.0 50.9

u Gem.

b 15-10

+22 3 5-

Feb. 6

45 0 36.9 27.0

8 ~~45~~ 0 39.0 32.310 ~~45~~ 0 46.7 29.1

13 45 0 47.8 32.2

18 45 0 44.2 32.9

20

AR.

#?

23 45 0 44.9 26.3

March 6 45 0 42.1 32.6

8 Monocerotis 1873

6 16 56

+4 39

Feb. 5

40 0 40.3 34.1

10

40 0 47.8 30.0 lost 1st vr.

13

40 0 47.0 30.2

20

A.R.

23

40 0 40.8 21.8

March 6

40 0 7.3 57.1

9

40 0 41.5 31.1

Fr. name

9 D Doci

1873

Feb. 6

35 2 59.9 54.1

18 22 36

8

35 2 55.0 51.9

+71 16

10

35 3 12.0 58.5

108 44

20

A.R.

23

35 2 8.0 58.4

March 6

35 3 21.9 16.2

9

35 3 7.8 7.1

10

35 3 14.5 10.5

see name

X ~~Drace~~

1873

11 2 3 18

+ 72 40

107 20

Feb. 6 0 2 44.1 37.0

8 0 2 52.0 48.9

10 0 3 15.1 61.2

23 0 2 57.2 36.1

March 6 0 2 43.1 37.0

8 0 2 41.4 45.5

9 0 2 45.1 43.8

10 0 2 39.4 33.9

last 4. Wires

last 3 "

23 76 Camel 1873

6 2 4 20

+ 79 42

Feb. 5

35 4 5.0 55.1

6 35 3 55.0 46.9

10 35 4 7.1 51.5

20

AR

23

35 4 20.9 14.1

March 6 35 4 14.0 5.4

8 35 3 58.1 53.2 lost 1st W.

9 35 4 8.0 4.8

10 35 4 11.0 4.2

lost 1/4 2

lost 1/4 Wires

lost 1.2.3

~ 51 Aurigae
 6 29 44
 + 39 30

1873

Feb. 5 30 0 59.9 48.1

6 50 0 34.0 22.1

8 50 0 59.3 53.2 9 Wires

10 50 0 43.9 25.6

17 50 0 27.0 15.0 new sheet

23 50 0 39.1 20.0

March 6 50 0 32.2 22.8

8 50 0 31.8 25.8

9 Obid 8 Geminor. instead of 51 Aurigae

10 Obid ditto.

15 Monocerotis

6 2 3 53

+10 01

1873

Feb. 5

15 4 33.8 19.9

6 15 4 18.6 7.9

8 15 4 23.3 14.8

10 15 4 ~~33.7~~ 15.9 rej. 1 ²/₁₁ 8

11 15 4 26.1 8.9

17 15 4 22.0 8.7

20 ~~AR~~

March 4 15 4 29.1 17.0

8 15 4 25.1 17.0

9 15 4 31.1 25.2

10 15 3 0.9 51.2

E. Seminar.
6 36 01
+25 15

1873
Feb. 5. 5 0 2.8 4 52.1
6 0 4 49.9 40.8 9 W
8 5 0 3.9 58.1
11 5 0 10.2 53.9
17 5 0 9.1 458.0
19 5 0 4.1 -5.1

20 A R

March 6 5 0 12.5 -2.8
8 5 0 9.7 4.0
9 5 0 58.8 455.0
10 5 0 9.1 41.9

*ψ Aurigae*1873
Feb. 56 37 27
+43 42

11

17

19

20

March 6

8

10

35 3 30.3 24.0

35 3 33.9 17.0

35 3 31.1 21.7

35 3 19.8 10.3

CR

35 3 33.0 22.8

35 3 33.0 27.0

35 3 33.5 25.1

43 Camel

6 39 49

+69 02

813

Feb. 17

March 6

9

10

15 4

6.1

55.1

15 4

6.0

57.2

5 mid. Wind

15 4

5.0

1.1

A-

~~4.2 + 3.2~~

15 4

11.2

4.2

A-

1

18516eph.
6 40 13
+57 14

1873

Feb. 5 5 2 8.1 58.7
6 5 2 4.9 57.0
8? 5 1 57.0 51.9
11 5 2 5.1 49.3
17 5 1 51.9 418 last 4 Wires
19 5 1 57.0 48.4
20 wire

22 5 ~~52~~ 55 49.8

24 5 2 16.2 11

26 5 1 59.9 48.9

March 6 5 1 52.7 44.2 last 4 Wires

8 5 1 35.7 30.9 A+,

9 5 1 41.0 38.1 lost 1st 3 wires.

10 5 1 50.2 43.2 lost 1st 3 "

13 5 1 39.0 35.0 Wires 8+9+A+,

♂ Gemini
6 44 18
+34 07

1873
Feb. 8

11

17

20

22

26

March 9

10

10 3 45.8 38.8

10 3 53.0 36.9

10 3 35.6 23.1

WR,

10 3 50.3 35.1

10 3 49.5 36.1

10 3 45.1 39.9

10 3 48.3 40.0

lost 1st 10

Charles W. Sever, University Bookstore, Cambridge.