

KG
11365
124

E.3

Meridian Circle
1860 May 25th

Sold by T. Groom & Co., Stationers, India Building, 82 State St., Boston.

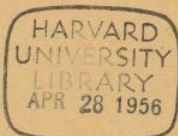
KG 11365.124

	δ 1860.0	Cont. M. S. Ant.	Mean Kyr.
η Virginis	+0° 6.41.44	-0.8 M.	52.4
θ Virginis	-4 47 26.8	-0.7 M.	62.2
ζ Virginis	+0 7 16.52	-0.6 M.	52.4
ϵ Virginis	+2 13 24.57	-0.5 M.	49.7
α Serpentis	+6 52 8.10	+0.7 B.7	41.2
σ Ophiuchi	-3 19 51.41	-0.3 M.	59.1

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KG 11365.124



H
G
7
C

1860 May 25 (See previous book) M.E.

1860 May 25 continued

sl.

d Horonae

d Serpentin

		14.5		8.0		45.7
		16.0		12.1		49.4
		21.1		16.0		52.9
		25.0		19.8		56.2
		28.7		23.9		0.0
15	1	21.46	15	29	15.96	52.84
			28	48.95		25.77

311.40
- 0.73
75.6

29.0
31.8
6.2
23.6

15 1 4
1 55

1860 May 29. El. 12 58 0

♂ Virgin

α Virgin

3 Virgin

ε Virgin

L. Prokin

11.3

18.3

0.8

45.5

14.9

22.0

4.2

49.2

18.4

25.5

7.8

52.9

21.8

29.0

11.2

56.5

25.3

32.8

14.9

0.3

13 3

18.34

13

18

25.52

13 55

7.88

14 9

52.88

(25.5)

17

52.24

24.43

19.70

312 55
- 3 10.8
18.2310 0
+ 8 99.4
+ 7 06.2

No Dir.

49.3 49.6

26.1 26.0

3.6 4.0

22.7 22.3

25.42 25.42

No Dir.

46.8 45.4

32.0 30.6

11.0 9.6

25.0 24.4

29.70 27.10

~~13 3 55~~
13 3 5513 54 40
55 31At 13^h 4^m
Ext. - 1st 55.9

Quite hazy

At 13^h 56^m
Ext. - 1st 54.3

1860 May 29

U. 15 43 0 : 460.

16 25 0

Alarone

Lupantis

Glossa Min:

Dophinchi

L. Lur.

14.4

52.2

12.5

19.3

18.3

55.7

29.3

27.3

22.3

59.0

46.5

27.2

25.9

2.5

3.0

30.8

30.1

5.3

26.5

*6 - 44.6

34.9

15 29

22.20

15 37

59.14

15 49

46.36

16 7

16 21

27.10

48.96

25.80

(13.73)

53.62

No Dec

305 20

+ 5 68.8

+ 5 76.6

No Dec.

315 30

+ 2 276

H 25.9
G 23.7
F
E

25.9 25.4
23.7 24.6
3.6 2.8
15.7 14.9

39.4
39.0
12.6
31.1

15 37 24
38 19

16 8 1

Gaulish R. simplified

H 15^k 53^m
G 15.7 51.1

H 16.8
G 16.8
B 30.50
A 2.59.5

1860 May 30

2 Aurigae

2 Orionis

46.0

3.6

51.5

7.1

56.3

10.8

0.8

14.0

6.4

17.5

5 6 56.20

5 48 10.60

22.14

36.52

No Ser

Afterward
El. 5140Before
El. 5460

1860 June 7th

L Orionis

~~15.4~~

15.9

19.5

22.7

26.5

5 48 19.

5 47 36.57

No Dec

El 550 0

1860 June 8.

P. b. 11^h 40^m - 12^h 15^m β Lermis γ Ursae Maj.

33.8

1.3

37.4

7.4

41.1

[13.6]

44.5

10.2

48.2

25.4

11 42 41.00

11 47 [13.38]

41 37.42

46 30.08

No. Sec.

No. Sec.

3 wire not good.

1860 June 9th.

Aurorae

 α Lupentis

25.9

38

30.0

72

33.9

10.7

37.6

14.2

41.6

17.8

15 29 33.80

15 38 10.74

28 48.96

37 25.84

No. Sec.

305.20

+ 791.0

H

24.14

25.6

0.4

10.7

Very Cloudy.

At 15^h 42^m
Alt. 20° 61' 7"The pointed beam to have
moved.

1860 June 12th El. 12^L 50^w 0 - 13^L 35^w 0

Palani Sp.

Palani S.P.

S. Virgin

13 3 56.8

14.8

6 21.8

18.4

8 35.1

21.8

10 49.8

25.1

13 14.3

28.8

13 8 35.56

13 28 21.78

7 41.86

[27 36.58]

220 40
- 7 34.3 2⁶K
33.0 3²-

220 45
+ 2 25.4 1w. 05
26.6 2w. 5

312 0 -
- 2 73.4

H 14.8 15.1

17.0 16.4

8.8

G 39.5 39.0

40.0 39.8

11.6

F 39.8 40.6

39.7 40.2

44.2

E 59.0 58.6

58.2 58.1

0.4

~~25.7~~
49.02

~~28.32~~ 1.3
49.92

12 53 46.
54 31.

13 5 27
7 27

13 29.2

At

1st w. 2nd break
Doh after 1st w.
2nd w. - late 1st
P.D. - 3rd w.
D.D. 4th w.
P - 5th
M.D. B

At. 13^L 19^w
Cent. Jw. 68.3

1860 June 13th ~~14th~~ El. 15 54.0

6 September

14 of plinchi

3.7	~~48.4~~ 41.3	38.5	52.9	19.5
7.4	~~51.4~~ 47.5	41.8	56.6	22.9
10.7	48.2	45.5	59.85	26.4
14.1	51.4	48.8	3.3	29.6
17.6	55.1	52.4	6.9	33.4
15 58 10.70	16 15 48.14 49.59	16 27 45.40	16 34 59.91	16 35 26.36

$$\begin{array}{r} 311 \ 5- \\ + 0 \ 92.3 \\ \hline \end{array}$$

$$\begin{array}{r} 310 \ 50 \\ + 6 \ 23. \\ \hline \end{array}$$

$$\begin{array}{r} 310 \ 25 \\ + 1 \ 31.6 \\ \hline 37.6 \end{array}$$

$$\begin{array}{r} 310 \ 40 \\ + 5 \ 02.1 \\ \hline \end{array}$$

$$\begin{array}{r} 310 \ 40 \\ - 2 \ 32.4 \\ \hline \end{array}$$

14.4
13.8
43.6
0.2

35.0
36.3
5.6
23.7

30.8
32.7
2.3
19.4

30.4 31.1
31.2 32.1
59.8 2.6 1.6
19.1 19.6

See preceding

15 58 54

16 16 19

16 27 26
28 15

16 34 26

16 36 6

Get the

21 ophiuchi

1.2

4.8

8.3

11.5

15.4

16 45 8.24

310.40

-1 79.8

30.9

31.8

1.2

18.9

16 44 53

faint

At 16^h 55^m

Ext. Thr. 60°0

2 Herculis

57.6

1.4

5.0

8.3

12.2

17 9 4.90
8 19.35

No. Du.

310.35

+3 70.7

33.6

35.2

6.9

22.6

17 14 14.
1At 17^h 20^m
Ext. Thr. 60°6

2 Ophiuchi

8.0

11.7

15.2

18.6

22.4

17 29 15.18
28 29.66

No. Du.

1860 June 14th El 14 52 0M. 14^h 56^m 14^s

Librae

6 Serpens

Lorone

Time lost.
Magnet at fault.

11.4

37.3

8.2

27.3

15.05

40.8

11.9

31.4

18.5

44.35

15.3

35.4

21.9

47.7

18.6

39.0

25.6

51.4

22.1

43.1

15 10 18.49

15 14 44.31

15 22 15.22

15 29 35.24

[9 31.99]

28 48.95

310 45
+6 01.3
0-1

321 0

310 55
+1 37.0
41.8311 5
+5 72.
77.4

284 57.5

48"4 49"9

40"1 40"2

38"4

No Su.

51.3 52.9

44.5 45.4

42.7

19.6 20.0

10.4 11.0

12.9

37.7 39.4

29.8 29.0

28.7

4.0 4.95

20.25 25.6

25.05

14.5 16.15

37.15 37.2

35.7

14 56 47
57 23.?15 14 20
15 1215 21 55
22 39

Ent Ther. 65°3

E. 15 59 0

E. 16 25 0

Serpentis

A

Serpentis

Serpis

5.0
 8.8
 12.3
 15.7
 19.4
 15 38 12.24
 37 25.85

305° 15'
 - 2 08.8
 17.1

13"5 12"8
 46.9 46.6
 14.7 15.3
 31.0 31.3

15 37 52
 38 38

310 10
 + 2 69.1
 71.4

39"4
 44.2
 11.5
 30.9

15 40 49
 41 31

311 10
 - 5 89.9
 93. Doubtful

37"4
 41.2
 7.4
 26.4

310 45
 - 2 78.6
 82.4

37"6
 44.4
 8.3
 28.7

16 15 32
 16 8

At 16 0^m E. L. 7^m 63°7

1860 June 15th El. 15550

Dopierhi

6 Sarpautis

16	7	51.4	16	15	42.8	16	27	40.1
		47.9			46.4			43.8
		51.4			49.9			47.0
		54.8			53.2			50.4
		58.4			56.8			54.0
16	7	51.38	16	15	49.82	16	27	47.06

 $315^{\circ} 30'$
 $+ 4 \frac{45}{52} \text{ W. L. 2}$
 $310 \ 45$
 $- 2 \frac{85}{86.6}$
 $310 \ 25+$
 $[+ 2 \frac{78.8}{86.4}]$
 $36.9 \ 36.8$
 $36.2 \ 35.8$
 $3.4 \ 4.5$
 $26.8 \ 26.7$
 $35.4 \ 33.6$
 $38.6 \ 38.6$
 $4.4 \ 4.2$
 $24.8 \ 24.1$
 $45.3 \ 46.1$
 $50.9 \ 51.7$
 $15.9 \ 15.9$
 $36.2 \ 35.0$
 $20.15 \ 20.65$
 $31.50 \ 31.35$
 $19.90 \ 19.90$
 $21.20 \ 21.35$
 $16 \ 7 \ 24$
 $8 \ 41$
 $16 \ 15 \ 36$
 $16 \ 27$
 $16 \ 27 \ 11$
 $28 \ 5-$
 $\text{At } 16^{\text{h}} 0^{\text{m}}$
 $\text{24.7m } 66^{\circ} 2$

1860 June 18th El 13 60

α Luminis	Polaris SP	α Virginis	ζ Virginis	ϵ Virginis
37.95			18.15	15.9
41.75			21.8	19.5
45.2	8 42.8		25.15	22.9
48.6	10 58.3		28.6	26.3
52.2	13 22.0	47.9	32.2	30.0
10.1 45.14		13 14	13 28 25.14	13 55 22.94
0 56.59			[27 36.54]	[54 34.35]

220 47
M. S.3/2 0
-1 31.6
20.8309 55
+1 90.6
96.9

41.7	40.4	36.3	37.2
42.0	40.6	37.6	37.8
13.1	12.2	8.3	8.4
32.1	31.7	24.8	24.8

13 27 38
29 313 55 6
55 59At 1356
ext. M. 63.2

1860 June 18.

El. 14 36 0

Booth

0.8

4.5

8.2

11.8

15.6

14 10 8.18

19.59

14 19

~~37.0~~

37.0

40.8

43.8

47.4

292° 13' 6"

No Sur.

310 30

-0 70.5

75.6

56.4 53.4

53.7 53.6

25.4 24.7

41.5 42.5

14. 19 25
20 14

Clouded up.

At 14^h 36^m
alt. hr: 61.1

1860 June 21.

C.C. 15^h 4^m

5 Virginis		α^1 Librae		α^2 Librae		Barnard's Star	
	20.3		43.9		55.6		36.7
	24.1		47.6		59.1		50.4
	27.7		51.2		2.6		3.5
	30.8		54.9		6.1		16.0
	35.1		58.5		9.8		29.8
13 28	27.60	14 43	51.22	14 44	2.64	14 52	3.28 1.26
[27	36.51]		0.27		<u>11.70</u>		<u>13.33</u>
					~~11.70~~		<u>50.93</u> 51.03
312 0							
No Sec.		No Sec.		No Sec.		No Sec.	

Clouds.
Doubtful.

860 June 22^d Comet 1860. III.

424 ^h 14 ^m 43 ^s 49
R. 8 8 18

Dec. hr 42° 25'

15 5 16.0 In. Comet Below. 6 35.2
7 50.4 ? Out — —

3 37.4

9 4.8 In. Star Above 10 10.6
11 16.4 — —

15 15 20. In. Comet Below 16 15.8
17 11.6 Out — —

3 36.3

18 32.2 In. Star ~~near~~ 1600. Above 19 52.1
21 12.0? Out —

1860 June 26.

Lophocai

52.0

55.6

59.1

2.5

6.1

16 7 59.06

No Ser.

1860 June 28th

El. 16 55 - 0 17 30

Librae	Librae	+ Hercul			
57.2	2.7	10.65	27.9	21.4	
54.9	6.3	14.25	31.4	25.0	
58.4	9.9	17.8	34.9	28.4	
1.9	13.3	21.2	38.2	31.7	
5.8	17.0	24.9	41.9	35.4	
14 43 58.44	14 44 9.84	17 9 17.72	17 11 34.86	17 25 28.38	
0.24	11.66	19.43			
58.70	58.18	58.29			
to Dec	to Dec.	to Dec.	310 15	310 20	
			+ 2 73	- 2 41.4	
			77	47.6	

41.1	41.3	31.17	33.8
42.9	43.4	34.6	35.2
12.6	12.5	3.9	4.6
28.8	28.4	22.6	22.4
26.85	26.90	17.80	19.20
35.85	35.40	28.60	28.80

17 11 25
12 4

17 25 9
25 54

At 17^h 4^m
Mars 29.886
JH 74.01
Earth 67.9

Earth 67.5

γ Ophiuchi	δ Ophiuchi	μ Sagittarii	δ Ursae Min.	* μ Andromedae
47.5	34.2	18.6	16 35.5	33.0
51.2	37.9	22.6	17 36.5	37.4
54.6	41.3	26.2	18 34.5	42.0
58.0	44.7	29.9	19 30.5	46.4
1.5	48.3	33.8	! 20 31.2	51.0
17 41 54.56	17 55 41.28	18 6 26.22	18 18 33.64	18 31 41.96
			17 37.66	

$$\begin{array}{r} 309.20 \\ - 4.12.3 \\ \hline 4.18.7 \end{array}$$

$$\begin{array}{r} 310.50 \\ + 1.20.2 \\ \hline 1.27.5 \end{array}$$

no data

$$\begin{array}{r} 225.33.6 \\ \hline \text{no data} \end{array}$$

42.1	40.0	29.4	29.5
42.9	42.5	33.0	32.3
12.6	12.4	1.8	3.4
30.0	30.8	21.2	21.6

middle of last
break for 5th w.

17 41 32	17 55 25
42 24	56 40

Ext. to 67°

Jul 18 37 0 - 1860 June 28 continued -

Lupine

4.7

9.3

13.7

18.1

22.8

18 33 13.72

16 32 15.23

58.49

1860 June 29.

Poleonin

11 Un. day

49.4

Clouds

53.2

56.6

←

28.5

0.1

Clouds

3.9

11 42 56.64

11 47 28.5

41 57.21

46 29.57

1860 June 30. El. 12 57 - 13 20

El. 16 19 0

Ursa min. - S.p.		α Virgin		α Librae		α Librae		α Scorp	
6	27.3		45.8		56.0		5.3		
6	51.4		49.4		57.6		9.0		
9	6.4		53.0		1.2		12.7		
11	22.0		56.3		6.8		16.0		
13	44.2		0.0		8.5		19.8		
13	9	6.26	13	18	52.90	14	44	12.56	
7	58.00		17	52.02		43	0.22	43	11.65

No Ser.

No Ser.

El. 17.22 s

(I

* 297

d Ophiuchi

d Ophiuchi

297

297 20,

1860 July 2.

^{15 20 0}
 Sh. here is a temporary substitute for El.

L Serpentis

Daphnechi

Serpentis

22.7

58.0

22.3

1.1

59.5

26.3

7.7

26.0

4.7

3.1

29.6

5.1

29.4

8.2

6.7

33.2

8.3

11.6

10.0

36.7

12.0

36.3

15.3

13.7

 15 38 29.70
 37 25.81

 15 53 50.2
~~50~~ ~~52~~

15 58 29.

16 8 8.18

16 16 6.60

 305° 15'
 -2 20.3
 24.3

 311 10
 4 95.1
 +3 01.7

 311 5
 +1 06.3
 10.3

 315 30
 32.5
 +4 49.8

 310 50
 82.4
 +7 87.4

H 43.6 45.4

45.0 45.1

44.2

46.6 47.6

47.7 47.6

G 40.2 39.9

40.3 40.7

38.6

42.3 42.3

42.7 42.0

F 11.4 10.4

11.4 10.3

10.4

10.4 10.9

12.9 13.8

E 28.5 27.5

27.8 27.6

28.9

30.9 31.8

31.7 31.9

 27.5
 34.75

 27.9
 22.8

 15 38 13
 39 1

 15 52 44
 53 22

 15 58 9
 58 55

 16 7 46.5
 8 45.

 16 15 45
 16 25

 At 16^h 0^m
 Sub. Juv. 65.1

2 Serpie			Per 2119			14 ophiuchi			*		
		49.9			11.6			37.8		8.0	45.0
		54.0			15.0			41.3		11.6	48.6
		57.8			18.4			44.8		15.4	52.2
		1.6			21.9			48.1		19.0	55.1
		5.6			25.6			51.8		22.1	58.7
16	21	57.78	16	35	18.50	16	35	44.76	16	42	15.22
	20	53.82								48	51.92

338° 13'

310° 40'
+6 88.4310° 40'
-2 15.1310° 56'
+4 22.0
25.3310 30
+6 73.0
85.341.3
35.837.7 38.6
33.4 33.8
3.6 2.8
24.1 23.6

see previous

30.3
26.3
55.6
15.350.0
45.4
16.9
36.520.65
28.7516 34 58
— —

16 36 21

16 41 56
42 5216 48 33
49 22Has very faint
Ob: very bad.

1860 July 2 - continued. S.B. 16 54 0 Pen filled

El 17 20 0

L Herminia

L Ophiuchi

68 Ophiuchi

p' Sagittarii

16.2

27.1

26.6

40.0

19.9

30.7

30.4

43.6

28.2

23.5

34.0

33.8

47.1

32.1

27.0

37.4

37.4

50.4

35.7

30.7

41.2

41.0

54.1

39.5

17 9 23.46

17 25 34.08

17 29 33.84

17 55 47.04

18 6

8 19.43

28 29.78

4.04

4.05

297 35

310 20

299 30

310 50

-0 48.4

-2 37.8

+3 53.2

+2 94.4

62.8

42.0

61.6

96.4

H 41.4 41.3 39.6

38.8 37.9

64.8 43.9

G 38.5 38.7 34.9

34.9 35.1

39.8 39.6

F 9.8 10.4 4.2

7.4 7.4

8.9 8.9

E 23.2 23.1 22.9

19.4 20.3

28.9 29.1

17 8 57
10. —17 25 7
25 5217 29 17
30 4417 55 29
56 5

App. 30.050
 Alt. 71.6
 Az. 17 63.3

1860 July 2. cont.

El 1838.0

El 18 44 0

δ Logitarrin	δ Horse min hr	δ Sagittarin	δ 51 Cephei	δ 2 Sagittarin
2.8	16 42.7	20.8	32 18.5	23.9
7.0	17 41.4	24.7	33 32.0	27.6
10.9	18 38.7	28.6	34 45.3	31.4
14.6	19 35.7	32.3	35 55.3	34.8
19.0		36.2		38.8
18 13 10.86 (12 6 47)	18	18 20 28.52 (19 24.28)	18 3	18 50 31.30

Doubtful
Clouds

860 July 2 cont

El. 19 20 41 hr 60.06

Moon I.

Moon II.

 ϵ Sagittarii

		38.6		58.5		13.0
		42.6		2.7		17.0
		46.4		6.4		21.0
		50.4		10.3		26.9
		54.7		14.5		29.0
18	51	46.56	18	54	6.48	18 59 20.98

~~602~~
1860 July 3/4

2 Tauri

55.7

59.5

3.1

6.6

10.5

4 29 3.08

27 55.01

1 8.07

1860 July 6th

Polaris	α Virginis	γ Phoenicis	2119 Br.	14 Phoenicis
13 7 15.6	3.2	16.0	26.4	52.9
9 28.8	6.7	19.5	30.0	56.6
11 46.3	10.3	23.0	33.4	59.8
14 9.1	13.8	26.5	36.8	3.1
	17.4	30.0	40.2	(Bad)
13 9 30.10	13 19 10.28	16 8 23.00	16 35 33.36	

315 25
-5 46.2

310 10
+5 05.6

-2 33.0

H
L
F
E

43.6

See following

30.9

3.1

25.8

39.6 39.2

26.9 27.0

59.9 1.0

21.1 20.3

16 9 18

16 35 17

16 36 35

At 16^h 16^m Est. Pm. 58.4

El. 17 12 0 El. 17 20. 0?

L Herminia

L Ophiureti

x 17 26 2

15.7	31.1	41.0	41.6	17.9
19.4	34.8	45.6	45.3	21.7
22.9	38.5	49.2	48.9	25.2
26.1	41.9	52.4	52.3	28.6
29.6	45.6	56.3	56.0	32.0
16 50 22.74	17 9 38.38	17 25 49.10	17 29 48.82	17 37 25.04

310 30
+ 2 86.9
920?

297 35
- 2 76.5
955

310 20
- 2 52
57

299 30
+ 3 59.5
64.0

+ 1 29.
34.

46.5

46.2

38.4 40.0

39.7 40.1

55.7

33.9

34.6

27.9 27.4

29.6 29.0

43.7

6.4

11.0

0.3 59.7

6.7 6.0

16.9

25.6

22.2

19.3 18.3

17.8 17.6

34.9

26.45

26.20

29.75

27.40

16 49 57
50 50

17 9 14
10 12

17 25 28
26 8

17 29 28
30 15

17 37 3
37 50

At 17^h 6^m
alt. 56.8

				μ Sagittarii	δ Ursa minor
31.3	55.1	20.4		39.6	18 16 54.3
34.9	58.7	24.0		43.4	17 53.6
38.4	2.2	27.4		47.1	18 52.3
41.6	5.5	30.8		50.8	19 50.7
45.2	9.2	34.5		54.6	20 52.1
17 43 38.28	17 56 2.14	18 0 27.42	18 6 47.10	18 18 52.60	

$$\begin{array}{r} 310.10 \\ + 4.28 \\ \hline 314.38 \end{array}$$

$$\begin{array}{r} 310.50 \\ + 1.10 \\ \hline 311.60 \end{array}$$

$$\begin{array}{r} 311.0 \\ + 0.58 \\ \hline 311.58 \end{array}$$

$$\begin{array}{r} 333.12.7 \\ \text{No Dec.} \end{array}$$

$$\begin{array}{r} 225.30 \\ - 6.22.15 \\ \hline 219.07.85 \end{array}$$

$$\begin{array}{l} H \quad 39.4 \\ G \quad 29.9 \\ F \quad 2.0 \\ E \quad 19.4 \end{array}$$

$$\begin{array}{ll} 43.1 & 43.6 \\ 32.6 & 32.1 \\ 4.0 & 3.6 \\ 24.1 & 23.4 \end{array}$$

$$\begin{array}{l} 41.6 \\ 28.6 \\ 1.1 \\ 21.0 \end{array}$$

$$\begin{array}{ll} 52.8 & 54.6 \\ 2.4 & 2.8 \\ 2.4 & 1.9 \\ 27.4 & 26.7 \end{array}$$

$$\begin{array}{lll} 17 & 43 & 22 \\ 1 & 44 & 3 \end{array}$$

$$\begin{array}{lll} 17 & 55 & 41 \\ & 56 & 23 \end{array}$$

$$\begin{array}{lll} 18 & 0 & 9 \\ & 0 & 49 \end{array}$$

$$\begin{array}{lll} 18 & 11 & 0 \\ & 11 & 42 \end{array}$$

$$\begin{array}{l} At 17h 47m \\ \text{Est. } \mu = 56.2 \end{array}$$

$$\begin{array}{l} At 17h 49m \\ \text{Barr. } 30.066 \\ \text{Alt. } 64.2 \end{array}$$

♂ Ursa min: 4 Aquilae

$$\begin{array}{r} 225 \ 35 \\ + 3 \ 53.6 \\ \hline 58.3 \end{array}$$

$$\begin{array}{r} 57.2 \ 56.4 \\ 3.6 \ 4.0 \\ 4.6 \ 5.1 \\ 29.3 \ 29.3 \end{array}$$

$$\begin{array}{r} 310 \ 15 \\ + 5 \ 99.5 \\ + 4 \ 3.4 \end{array}$$

$$\begin{array}{r} 55.9 \ 55.9 \\ 43.7 \ 44.1 \\ 14.8 \ 15.0 \\ 34.0 \ 33.5 \end{array}$$

$$\begin{array}{r} 310 \ 35 \\ + 2 \ 82.4 \end{array}$$

$$\begin{array}{r} 53.5 \ 54.0 \\ 42.2 \ 41.4 \\ 13.6 \ 14.4 \\ 32.6 \ 31.5 \end{array}$$

$$\begin{array}{r} 310 \ 25 \\ - 0 \ 16.2 \end{array}$$

See preceding

$$\begin{array}{r} 311 \ 5 \\ + 5 \ 34.5 \\ \hline 41.8 \end{array}$$

$$\begin{array}{r} 48.4 \ 49.7 \\ 36.7 \ 35.8 \\ 10.4 \ 9.6 \\ 29.2 \ 29.0 \end{array}$$

$$\begin{array}{r} 18 \ 23 \ 25 \\ 24 \ 6 \end{array}$$

R.A. not very good

δ Aquilae γ Aquilae ϵ Aquilae β Aquilae

311 5
+4 72.2
78.4

309 20
+4 60.7
68.5

H
G
F
E

48.6

37.2

9.4

29.5

Same as preceding

38.3

25.3

56.7

16.8

Run of

H 14.6
2nd 7th 53.5

H + 3.3

G - 2.7

F - 2.1

E + 2.1

1860 July 9.

α Scorpii	γ Draconis	δ Ursae minor	β Lyrae
18.2	45.3	18 6.4	20.8
22.1	50.9	18 7.4	25.0
25.9	56.5	19 5.6	29.3
29.7	7.8	20 2.0	33.1
33.8	7.8	21 2.9	37.6
		~~21 59.6~~	
16 22 25.94	17 54 56.46	18 19 4.86	18 46 29.16

1860 July 16th

α Coronae		$\times$ Septentis		Br. 2119	14 opminchi	~~14 opminchi~~
	38.2		16.1			
	42.2		19.8			
	46.1		23.2			
	50.0		26.7			
	54.0		30.3			
15 30	46.10	15 39	23.22			

310 40
+ 6 80.8

- 2 07.8

H	43.8	44.9
G	39.2	38.0
F	3.8	3.4
E	25.0	26.3

It is doubtful whether the clock
(Baird's) goes well.

Exp. In 73.3

1860 Nov. 13th E. 22 h 0 (New Clock) M. East.

d'Piscis austrini

K Picium

*

*

*

311⁹ 40¹
+ 4 50.8
56.4

310° 25'
- 1 59.2
65.1

310 40
+ 0 2.7
7.5

310 45
- 1 84.2
86.8

H
g
f
E

3.5 4.2
39.5 41.1
31.8 31.2
24.2 23.8
24.71 25.07

0.2 0.0
34.8 35.4
28.5 29.0
20.6 20.6
21.02 21.25

52.3 52.0
29.0 27.5
21.2 21.0
12.9 12.8
13.85 13.32

8.4 8.5
35.2 33.3
38.8 38.2
31.0 31.5

Ent. In 45° 0

at 23^h 51^m

Bradley's Stars in St. Cat. No. I Authorities and

B. No.	R. M.	Name	α . 1860	δ . 1860	Magn.	Remarks.
116	31	26 Ceti				
496	117					
615	144	44 Eridani				
640	154	49 Eridani				
870	236	60 Orionis				
943	256	77 Orionis				
1055	337	24 Monocerotis				
1407	512	15 Lyncis				
1459	519	30 Lyncis				
1533	537	ρ^2 Leonis				
1547	545	ρ^5 Leonis				
1586	557	ν Leonis				
1643	573	13 Virginis				
1647	575	η Virginis				
1789	617	5 Virginis				
1908	684	1 Leporis				
1912	689	2 Leporis				
1933	699	4 Leporis				

Pr. No.	L. No.	Name	α 1850	δ 1850	Mag.	Remarks
2312	871	α <i>Serpentis</i>				
2429	924					
2430	922	23 <i>Aquilae</i>				
2431	923	24 <i>Aquilae</i>				
2455	930	γ <i>Aquilae</i>				
2526	945	η <i>Aquilae</i>				
2661	983	1 <i>Aquarii</i>				
2822	1030	26 <i>Aquarii</i>				
2952	1059	11 <i>Aquarii</i>				
3030	1078	1 <i>Pisium</i>				
3036	1083	2 <i>Pisium</i>				
3116	1094	8 α <i>Pisium</i>				
3117	1095	9 α^2 <i>Pisium</i>				
3138	1104	15 <i>Pisium</i>				
3153	1106	1 <i>Pisium</i>				
3167	1113	21 <i>Pisium</i>				

