

KG
11366
v. 391

Maskelyne Fundamental Stars
Circle Readings
From 0^h 1^m to 22^h 58^m

1877

Charles W. Sever, University Bookstore, Cambridge.

x 75
mdd

α Andromedae $h^m s + 28^{\circ} 24' 1''$

1877

E - F - G - H

E - F - G - H

Sept-23 0' 2' 4.6 15.7 12.0 10.9 0' 3' 22.6 34.1 23.9 29.6
 Oct-18 0' 1' 54.2 9.1 3.0 5.2 0' 2' 46.6 1.4 55.6 56.9

23 0 2 1.4 15.2 8.0 11.9

27 0 1 56.6 13.2 3.3 6.6

28 0 2 ^{lost A-2} 0.1 15.0 6.3 10.7

30 0 2 ^{A-2} 0.6 15.4 8.6 11.9

Nov 4 0 ^{lost A-2} 1 57.7 12.9 2.9 6.9 0 3 57 19.9 10.4 15.4

6 0 2 1.8 14.7 3.4 8.1 0 2 59.0 8.1 1.5 7.3

7 0 1 54.8 8.4 59.5 3.1

13 0 2 ^{lost A-2} 2.3 16.5 6.1 10.5 0 2 50.3 5.7 54.5 59.2

14 0 2 16.8 32.5 21.4 27.9 0 3 7.3 21.6 10.8 17.1

Dec 1 0 2 ^{lost A-2} 36.1 49.3 38.0 42.3

2 0 2 ^{lost A+2} 28.5 35.9 23.0 25.8

^{lost A+2}

Dec 9 0 1 57.5 10.9 58.9 35

12 0 2 2.1 16.2 5.2 9.2 0 3 7.4 20.9 9.9 12.8

15 0 1 59.8 13.1 0.9 6.9

16 0 2 0.8 15.1 5.2 11.2

18 0 2 7.1 21.6 9.8 13.9 0 3 2.0 16.6 5.1 9.2

20 0 2 0.3 10.9 4.4 8.1

^{A-1 34 fold}

γ Pegasi $h^m 6^s 48 + 14^d 29' 18''$

1897

~~5-7-9-11~~~~5-7-9-11~~

Sept 23 55-1 53.7 4.2 5.1 6.2 55-2 36.1 49.4 4.8 6.3

Oct 18 ^{lost 1st wire} 55-1 47.8 4.8 59.8 59.1 55-2 37.2 53.1 50.2 47.8

23 55-1 25.9 43.0 38.1 36.5 55-2 25.0 41.7 36.7 34.8

27 ^{lost #} 55-1 23.0 40.2 30.9 31.4 55-2 23.7 41.3 38.4 32.1

28 55-1 23.1 39.9 33.4 33.9 55-2 21.5 39.2 31.6 33.4

30 55-1 ^{32.9} 49.2 46.2 44.9 55-2 36.8 53.4 50.9 49.6

Nov. 4 ^{A false 8 pr. lost #} 55-1 24.6 42.3 34.8 35.0 55-2 31.2 48.9 41.1 40.9

6 55-2 14.2 32.9 22.8 21.9 55-2 45.2 32.2 52.4 53.9

7 ^{mid. wire & full} 55-1 33.5 49.2 43.8 42.2 55-2 48.0 41 57.2 58.1

13 55-1 52.7 9.4 1.8 2.0

14 55-1 46.1 3.9 53.5 56.8 55-2 38.1 53.3 46.7 48.9

Dec 2 ^{lost 1st 3 wires} 55-1 35.4 49.1 38.4 38.1 55-2 9.1 23.1 12.9 11.4

9 55-1 28.7 39.7 29.2 29.7 55-2 23.4 39.4 28.9 29.1

12 ^{lost # 1st 2} 55-1 31.3 47.1 38.7 37.1 55-2 37.3 33.1 44.5 44.5

17 55-1 24.1 41.0 33.6 34.9 55-2 21.8 38.3 29.5 30.1

18 55-1 30.6 47.1 39.0 38.1 55-2 33.8 49.3 40.4 40.9

20 55-1 27.2

α Arietis $2^h 0^m 15^s + 22^\circ 52' 49''$

1877

E F G H

Jan. 23 20 4 54.8 58.4 6.4 2.2 W.A.R.

30 20 4 45.5 50.6 57.8 55.1 R ch. failed

Nov 3 30 3 46.3 2.1 53.1 58.1 30 4 43.6 59.9 57.5 56.5

13 30 4 11.2 26.7 14.2 20.1 35 0 1.2 18.3 57.3 10.1

14 30 4 3.0 18.3 57.9 14.1 30 4 42.8 59.0 46.8 55.0

Dec 1 30 3 46.9 59.5 45.0 50.4 35 0 4.1 19.2 71.6 9.9

2 30 3 51.0 4.2 48.0 53.1 30 4 40.1 53.1 37.1 41.7

3 30 3 52.1 5.8 57.9 56.2 30 4 57.9 11.1 56.4 1.2

9 30 3 58.6 12.9 57.8 38 35 0 0.4 14.9 2.1 6.5

12 30 4 6.1 20.1 6.5 12.9 35 0 10.6 25.8 13.9 17.5

13 30 3 53.9 8.1 54.8 1.8 30 4 53.5 7.2 53.7 0.9

16 30 3 51.1 6.5 55.0 1.6 30 4 54.1 9.1 57.8 3.9

17 30 3 58.4 13.9 2.2 9.4

20 30 3 49.1 4.1 53.5 58.1

25 30 3 53.0 6.6 54.1 59.6

26 30 3 50.0 3.2 51.9 57.1

27 30 3 49.1 5.4 54.1 58.2

31 30 4 3.5 17.2 0.5 6.9 Lost-A-2 1

Lost 1st 2 wires

α Ceti h^m s^s $+^o$ $'$ $''$
 2 55 51 +3 36 22

1877

			ϵ	ζ	η	θ			ϵ	ζ	η	θ
			"	"	"	"			"	"	"	"
Jan. 21	40	1	8.1	13.6	25.4	18.2	40	1	50.2	55.4	7.4	59.3
23	40	0	25.3	31.8	43.1	35.3	40	1	44.3	49.3	1.3	52.2
24	40	0	23.1	27.3	41.6	33.0						
30	40	0	19.9	29.6	38.0	31.4	1	35.4	45.5	53.9	43.5	20
Feb. 3	40	0	25.2	34.1	44.7	39.6	1	40.3	48.5	0.0	55.8	40
4	40	0	36.7	46.5	57.0	52.4	1	38.9	46.5	58.8	55.0	40
6	40	0	26.8	37.4	48.2	40.5						

stat ~~1877~~ 40 0 27.9 38.8 48.8 40.1 O. K.

Nov 13	45	4	51.5	9.5	57.2	0.1	50	0	48.9	7.2	53.8	58.2
Dec. 9	45	4	51.2	8.4	53.1	56.9	50	1	3.2	20.4	6.0	8.9
13	45	4	50.9	8.1	53.0	58.7	50	1	4.2	22.0	10.5	12.9
16	45	4	49.1	6.9	55.7	57.9	50	1	7.9	26.1	15.9	18.9
25	45	4	55.7	12.4	1.0	3.0	50	0	55.9	12.1	1.9	3.1
27	45	4	54.9	13.2	1.4	4.1	50	1	7.8	26.0	15.4	17.9
31	50	0	9.8	28.9	13.8	14.0	50	0	57.4	14.9	0.2	2.1

α Tauri h 28^m 52^s $+16^\circ 15' 38''$

1877

			E	H	G	H			E	H	G	H
Jan. 13	0	1	33.9	35.6	45.2	38.8	0	2	38.3	39.6	49.1	45.4
14	0	1	29.8	33.4	43.3	37.2	0	2	47.3	48.3	0.0	54.3
20	0	1	31.2	36.1	52.9	43.2	0	2	38.7	42.1	57.7	49.3
23	0	1	26.8	29.5	43.0	31.9	0	2	40.6	43.2	57.7	46.4

~~30.1 0.1 1 32.7 40.2 50.4 40.2~~

30 0 1 32.7 40.2 50.4 40.2 2 36.2 46.4 57.3 46.1 0 2 49.3 53.3 46.4 52.6

Feb. 3 0 1 31.6 39.1 51.2 44.1 2 41.1 48.7 2.1 53.6 0 2 53.6 49.6 50.3 57.2

4 0 1 27.6 35.0 47.1 36.0 2 39.1 46.1 59.0 48.9 0 2 51.9 49.0 48.6 55.7

5 0 1 16.6 23.8 35.2 26.5 2 42.9 48.8 2.9 52.9 0 2 55.8 52.9 52.2 58.8

6 0 1 26.1 34.5 46.7 37.9 2 43.2 50.8 4.1 55.1 0 2 56.8 53.9 53.7 58.3

11 0 1 40.1 47.2 1.4 52.4 2 40.4 46.9 0.9 53.4 0 2 48.4 52.0 50.4 55.7

13 0 1 33.0 39.4 52.9 40.1 2 51.5 57.0 9.8 59.3

14 0 1 40.9 49.1 2.1 50.1 2 41.2 48.8 2.9 51.8

19 ~~19~~ 0 1 30.9 37.6 51.4 46.5 2 39.3 46.2 59.8 56.2

20 0 1 27.5 35.4 48.2 43.4 2 50.0 56.7 9.4 51.6

22 0 1 32.9 39.5 56.4 55.9 2 28.3 34.4 52.1 51.5

Dec 8 10 1 6.9 21.2 14.1 13.4 10 2 14.6 ~~21.4~~ 29.1 21.4 21.9

29 10 1 12.9 29.6 20.4 20.2 10 2 20.1 36.7 27.6 28.3

α

Fe

He

x Aurigae δ γ ϵ ζ η θ													
1877													
Jan 20	25	0	31.0	32.2	46.1	40.6							
23	25	0	27.4	26.5	40.1	31.6							
30	25	0	19.1	24.2	32.7	26.1							
Feb. 3	25	0	21.9	26.0	37.2	33.8							
4	25	0	20.3	25.4	35.9	28.6							
5	25	0	10.4	14.6	26.5	20.4	129.8	34.2	44.5	40.4	25.1	40.5	36.6
												38.3	43.9
14	25	0	15.6	21.2	32.1	24.0							
15	25	0	7.9	13.1	25.8	21.9							
20	25	0	18.9	22.3	33.9	35.2							
21	25	0	35.8	42.1	53.4	50.4							
22	25	0	18.5	22.9	37.9	42.5							
27	25	0	29.6	41.0	53.8	57.1	lost 1 st wire						
29	25	0	8.4	19.0	31.1	38.2							
Dec 29	35	0	2.7	16.1	5.1	8.8							

β Orionis $\begin{matrix} h & m & s \\ 5 & 8 & 38 \end{matrix} - \begin{matrix} h & m & s \\ 8 & 20 & 43 \end{matrix}$

1877 $\begin{matrix} E & F & G & H \\ & & & \end{matrix}$

Jan 20 35 3 4.0 9.1 25.3 15.4
A4 + pole

23 35 2 53.7 56.3 13.1 59.4

lost A + G + A + 1.4 $\begin{matrix} G & H & E & F & G & H & A & B & E & D \\ & & & & & & & & & \end{matrix}$

30 35 2 40.6 49.1 1.1 50.2 3 22.1 30.8 41.7 31.5 35 3 34.0 38.3 31.0 37.2

Feb. 3 35 2 42.3 49.2 3.1 53.9 3 34.5 42.5 57.1 47.9 35 3 48.1 44.3 44.6 46.9

4 35 2 46.3 54.2 8.1 57.1 3 30.7 38.5 53.4 41.7 35 3 44.6 42.6 41.3 48.7

14 35 2 46.7 55.2 9.1 54.7
lost 1st wire of A + 1

15 35 2 46.0 53.8 9.8 2.8 3 37.8 44.9 0.7 53.9

20 35 2 46.6 53.4 9.6 2.9 3 36.8 43.3 58.9 52.8 lost 1st 2 wires

21 35 2 41.1 48.9 3.4 39.2 3 27.7 34.8 49.9 45.5

22 35 2 41.0 48.1 6.8 7.9 3 25.0 32.8 51.4 52.6

27 35 2 32.6 45.8 1.6 59.8 3 26.4 40.1 55.4 53.2 35 3 43.3 44.5 42.7 35.7

29 35 2 38.3 51.9 6.5 10.9 3 31.9 45.4 0.5 4.8 35 3 48.6 48.8 47.6 40.6

Dec 29 45 2 7.7 24.8 18.0 16.5
A + 3 + pole

β Tauri $5^h 18^m 31^s +28^\circ 30' 6''$

1877

E F G H E F G H A B C D

Jan. 30	45	2	10.9	17.9	24.3	18.9	3	25.1	33.5	38.5	33.8	45	3	34.3	38.3	33.8	40.0
Feb. 1	45	2	13.9	22.8	30.8	24.6	3	26.4	33.4	39.4	35.4						
3	45	2	12.4	18.8	27.9	25.1	3	4.5	10.9	19.0	17.8	45	3	15.7	11.8	12.8	18.6
4	45	2	7.9	14.2	22.9	17.1	3	25.6	32.2	40.0	36.2	45	3	37.3	34.3	35.3	43.2
6	45	2	15.3	21.9	31.4	26.8											
8	45	2	18.6	25.5	33.4	26.2	3	14.2	21.0	28.9	22.4	45	3	23.9	21.8	22.3	28.6
11	45	2	14.6	19.6	30.5	25.6											
14	45	2	13.0	20.4	28.7	19.4	3	24.0	30.4	39.7	30.5						
15	45	2	10.0	17.8	27.2	23.9	3	24.0	29.7	39.8	38.8						
20	45	3	3.5	8.9	16.9	17.1	3	42.3	47.2	56.6	56.8	A 5 + foll.					
21	45	2	15.2	23.1	32.4	30.9	3	30.8	37.9	46.8	48.5						
27	45	2	11.9	24.8	34.5	38.1	3	23.4	36.7	45.4	50.2	45	3	38.8	38.4	38.7	32.5
28	45	2	8.9	21.1	31.7	37.1	3	0.8	13.1	22.9	28.7	45	3	14.9	15.4	15.2	8.6
29	45	2	10.4	23.1	32.2	41.0	3	4.5	16.6	25.8	34.6	45	3	17.9	18.8	19.6	13.1

Jan. 20 45 2 17.6 21.6 33.1 28.9 3 10.7 14.8 35.7 21.9

α Orionis $5^h 48^m 31^s + 7^\circ 22' 57''$

1877		E	F	G	H		E	F	G	H		A	B	C	D			
Jan. 30	50	4	1.9	9.1	16.4	9.4	55	0	3.5	12.1	19.8	11.5	55	0	13.1	17.8	10.6	14.8
Feb. 1	50	4	1.7	8.2	17.5	11.6	0	21.2	28.4	39.1	30.4	55	0	32.8	31.4	29.8	35.7	
3	50	4	0.1	7.8	18.0	12.8	0	13.6	22.1	32.5	24.6	55	0	25.5	24.4	22.6	29.4	
4	50	3	57.5	5.4	15.1	9.2												
6	50	4	0.1	8.5	18.5	12.8												
8	50	4	5.7	13.4	23.5	15.3	0	14.6	23.7	33.7	24.6	55	0	25.5	26.1	23.8	29.2	
14	50	4	4.1	12.0	22.9	11.2	0	9.8	18.2	30.7	18.3							
15	50	3	55.0	3.5	14.8	9.1	4	59.4	6.3	17.8	14.2							
20	50	4	3.1	10.4	21.9	19.0	0	11.3	19.2	30.8	28.0							
29	50	4	15.4	29.9	39.6	46.0	0	16.1	31.1	40.9	48.7	55	0	31.6	33.0	31.3	22.7	
March 4	50	3	58.8	13.0	25.3	34.8	0	13.8	29.2	41.6	52.2	55	0	31.4	31.3	30.8	22.4	
6	50	3	58.4	12.5	24.6	33.2	0	19.8	36.2	57.6	54.6	55	0	35.2	38.7	36.6	36.0	
Dec 29	0	3	40.2	59.2	48.0	48.2	0	4	51.2	9.2	56.7	59.0						

α Canis Maj.	^h	^m	^s	[°]	[']	["]
1877	6	39	44	-16	32	55
	6	7	9	76		
Feb. 8	45	4	2.3	14.0	24.1	14.3
11	45	3	56.5	8.1	20.5	9.9
14	45	3	58.9	11.5	22.8	10.3 50 0 8.1 19.7 33.2 19.3
15	45	4	1.5	13.1	25.5	18.6 50 0 15.7 27.4 39.8 36.8
20	45	4	—	9.7	23.1	18.4 R
21	45	4	7.5	19.1	29.5	27.7
27	45	3	52.2	9.9	21.5	23.2
28	45	4?	46.7	4.1	15.4	17.9 Ind. wire & foll.
29	45	3	56.0	12.7	25.6	30.7
March 4	45	3	58.1	15.8	28.6	37.2
6	45	3	58.6	16.3	27.4	36.0
7	45	4	0.3	20.9	31.7	40.6
11	45	4	11.5	29.5	41.1	53.1 lost 1 st wire
15	45	4	12.0	29.4	40.4	54.6

He
Ma

Δ Geminor h m s $+32$ 9 23

1877		E	F	G	H	E	F	G	H	A	B	C	D					
Feb. 27	5	3	6.4	17.8	28.7	34.6	4	12.3	25.1	35.0	41.4	5	4	27.3	27.7	28.2	20.8	
		1 stroke for each																
28	5	3	23.3	36.1	45.1	52.6	4	14.0	26.0	36.9	44.6	5	4	28.9	29.6	30.7	26.8	
		1 stroke for each 5 reg. order																
March 1	5	3	0.6	12.2	24.3	35.3	4	13.6	25.5	36.5	47.5	5	4	28.2	32.1	29.3	22.7	
4	5	2	58.9	10.1	22.8	36.3												
6	5	3	5.8	16.1	27.9	41.1	4	13.8	26.6	~~36.8~~ 49.8	5	4	25.9	30.0	28.5	20.8		
7	5	3	9.7	21.2	32.8	48.9	4	11.9	25.6	36.6	52.4	5	4	24.5	27.8	27.8	19.9	
11	5	3	8.8	20.6	32.3	49.2	4	14.4	26.1	38.2	55.9	5	4	26.6	29.4	28.5	20.8	
15	5	3	8.2	19.2	31.0	49.6	4	21.1	32.9	43.2	35.5	5	4	32.5	36.2	36.2	27.1	
20	5	3	44.1	55.1	7.4	26.6	4	15.0	26.8	38.0	56.6	5	4	29.8	31.8	30.2	21.7	
		lost A ₊₂ + A ₊₁																
24	5	3	56.8	7.4	20.5	43.2	4	11.6	22.3	35.0	58.7	5	4	28.2	25.7	27.2	20.7	

2 Can. Min. $h^m s + 5^{\circ} 32' 19''$

1877			E	F	G	H	E	F	G	H		A	B	C	D		
Feb. 27	40	4	35.1	51.6	0.9	3.8	0	46.8	3.2	12.4	14.8	45	1	5.3	40	3.3	52.6
28	40	4	29.5	47.0	55.3	0.8	0	43.6	0.6	10.2	14.6	45	1	2.6	1.6	1.2	58.2
March 1	40	4	31.4	48.1	58.6	8.4	0	44.6	0.3	10.4	19.0	45	1	1.8	~~1.6~~	1.3	51.7
4	40	4	30.9	47.1	58.1	9.9	0	44.7	1.4	12.2	24.3	45	1	3.5	2.7	2.5	52.5
6	40	4	37.5	54.1	4.1	13.5	0	44.2	0.3	11.0	19.9	45	0	59.8	2.4	1.0	49.9
7	40	4	33.5	50.6	1.8	14.9	0	43.9	0.4	11.9	23.8	45	1	0.5	1.7	0.7	49.8
15	40	4	37.8	54.1	3.7	20.0	0	38.5	53.9	58	20.0	45	0	57.3	56.1	58.3	43.7
20	40	4	34.9	50.1	6.5	16.6	0	51.8	7.3	18.6	33.4	45	1	10.3	10.4	7.9	55.9
24	40	4	34.1	49.2	1.2	21.9	0	49.9	5.2	17.8	38.1	45	1	11.2	7.2	7.4	58.4

Feb
Ma

β Geminor $7^h 37^m 47^s + 28^\circ 19' 19''$

1877

			E	F	G	H		E	F	G	H		A	B	C	D	
Feb. 27	55	3	10.1	23.0	31.1	38.5	4	13.1	26.0	34.4	41.8	55	4	28.5	28.2	28.2	22.2
28	55	2	59.8	11.5	21.3	28.4	4	11.9	25.2	33.4	42.2	55	4	26.1	27.7	28.3	19.7
March 1	55	3	4.1	17.0	26.6	36.0	4	14.4	27.0	35.8	48.4	55	4	27.7	29.4	29.9	23.0
4	55	2	57.5	10.1	20.4	35.4	4	14.6	28.2	36.6	52.2	55	4	28.0	29.0	29.7	23.8
6	55	3	12.4	24.3	33.9	46.9	4	14.1	25.8	34.7	48.8	55	4	25.7	28.3	28.2	20.2
7	55	3	1.7	13.7	24.1	39.6	3	49.9	26	11.6	28.9	55	4	2.1	5.3	4.9	57.3
11	55	3	27.8	40.1	49.9	7.4	4	13.9	26.2	35.6	54.2	55	4	25.5	29.7	27.8	20.1
15	55	2	58.0	10.1	19.7	39.4	4	13.3	25.2	34.9	54.9	55	4	28.3	28.0	28.0	19.9
20	55	3	1.0	12.1	23.9	42.1	4	15.1	26.8	36.5	56.3	55	4	28.6	29.7	28.7	20.7
24	55	3	5.1	11.6	28.2	52.2	4	13.5	25.0	36.3	0.9	55	4	30.3	28.0	27.7	22.6

α Hydrae $9^h 21^m 33^s - 8^\circ 7' 34''$

1877 ϵ ζ η θ ι κ λ μ ν ξ π σ τ υ ϕ χ

March 24 20 4 17.6 31.0 46.4 0.2 0 24.6 38.9 55.9 11.2 25 0 44.7 40.9 39.7 33.7

Apr. 9~~20~~ 3 59.8 14.1 14.2 14.2 25 0 34.4 48.9 50.2 50.2

~~13~~20~~ 3 47.9 13.0 15.3 44.9 25 0 23.0 48.4 50.9 51.1~~

15~~20~~ 3 55.5 18.8 21.1 25.5 25 0 21.2 44.6 49.2 52.0

16~~20~~ 3 54.1 14.8 19.4 23.7 25 0 22.2 43.5 48.9 52.9

22~~20~~ ^{lost A} 2 55.9 19.0 22.6 26.6 25 0 22.5 45.3 50.3 54.6

23~~20~~ 4 5.9 24.2 30.2 37.2 25 0 11.7 30.8 38.9 45.9

α Leonis											
	h	m	s	$+12^{\circ}$	$34'$	$5''$					
1877											
April 12	40	3	1.1	27.2	25.7	28.6					
15	40	2	55.1	18.3	19.4	24.5					
16	40	2	53.1	14.2	16.0	23.5	40	4	16.4	42.1	39.6
# 22	40	2	45.5	8.8	10.9	16.4	40	4	13.3	36.7	39.2
= 23	40	3	0.9	20.8	24.4	33.1	40	4	8.0	22.2	25.1
= 26	50	3	25.0	39.2	43.9	19.1	50	4	23.5	37.9	42.3
May 3	50	3	21.1	25.2	39.3	16.3	50	4	21.1	35.4	39.8
5	50	3	50.4	4.9	8.0	45.8	50	4	32.1	46.8	49.3
	lost A_{+1}	$+A_{+2}$									

Inc

β Leonis $h^m s + 15^\circ 15' 36''$

1877 E F G H E F G H

Apr. 26 = 10 1 57.2 9.6 15.5 50.6 10 3 1.7 13.8 18.9 55.6

May 3 = 10 1 50.0 4.1 7.9 49.7 10 2 58.4 12.1 15.7 54.6

5 = 10 1 56.9 9.7 14.6 51.8 10 3 9.7 23.1 26.4 3.5

6 = 10 1 55.2 7.5 13.8 50.1 10 2 58.9 11.9 17.2 53.8

7 = 10 1 54.2 8.8 12.6 49.3 10 2 58.4 13.5 17.1 53.9

12 = 10 1 53.6 6.6 12.1 49.1 10 2 55.1 8.8 13.6 51.9

14 = 10 1 56.7 8.8 15.0 52.6 10 2 57.2 9.9 15.6 53.5

16 10 1 57.5 11.4 18.9 54.9 10 3 2.3 16.1 22.5 0.8

28 10 1 47.8 3.8 11.1 1.4 10 2 47.0 1.5 9.8 50.1

29 ^{last A₂} 10 1 56.0 10.2 18.5 0.1 10 2 47.9 2.1 10.1 50.9

α Virginis $13^h 18^m 43^s - 10^\circ 31' 7''$

E H G H E H G H

May 12	55	3	14.9	28.1	37.2	11.4	55	4	11.5	24.4	32.1	7.6
13	55	3	1.0	13.9	23.6	58.6	55	4	7.1	19.7	28.1	4.6
18	55	3	7.6	20.2	32.1	5.8	55	4	11.3	23.6	35.5	9.2
28	55	3	8.9	22.2	33.5	11.2	55	8	56.0	100.	21.6	58.0
29	55	3	10.3	25.6	36.1	14.5	55	4	6.8	22.2	32.3	9.9
29	55	3	33.1	48.6	68.1	84.8	55	4	8.2	24.4	35.2	11.0
31	55	3	8.9	25.1	37.1	12.5	55	4	16.9	34.1	43.4	21.1
June 19	55	3	1.1	16.9	32.2	8.9	55	4	17.0	21.9	38.1	8.4

*L**p**m**f**pm*

l Bootis $14^h 10^m 3^s +19^\circ 49' 27''$

1877

G F G H

Jan 23 25 3 28.3 29.0 42.0 33.8

25 25 3 11.8 18.6 27.0 19.8 morning

May 28 35 3 10.5 25.7 31.9 12.9 35 4 21.4 36.3 42.5 22.3

30 35 3 57.9 13.1 18.1 59.3

June 2 $A_2 + 8.0$ $L_{\text{lost}} A_3$ 35 4 2.6 18.3 25.4 4.8 Lost A $+2$ & A

4 35 3 9.9 24.0 32.7 10.9 35 4 13.2 28.2 $+1$ 36.2 15.1

17 35 3 11.3 26.3 39.8 11.1

18 35 3 11.8 27.6 39.5 12.5

25 35 3 59.0 16.1 27.2 1.9

27 $A_2 + 5$ $L_{\text{lost}} A_3$ 35 4 6.5 24.1 34.5 9.6

July 4 $A_1 + 3.2$ A_2 35 3 33.7 46.9 55.5 30.1

α^2 Libae $14^h 44^m 5^s - 15^\circ 31' 45''$

1877

Sum 1955 4 2.4 205 348 43 55-4 489 74 198 503
 20 55 3 52.9 904 219 536 53-4 34.7 51.9 3.1 36.0
 Lost 1st 1/2 m

2 Coronae Bor. $15^h 29^m 29^s + 29^s 7' 48''$

1817

R Feb. 1 m 10 0 24.9 30.3 38.2 34.6 - - - - - 10 0 34.6 31.4 31.2 40.5
 5 10 1 21.0 27.2 37.3 33.8 - - - - - 10 1 33.3 30.0 29.4 38.3
 6 10 1 18.3 25.2 34.3 31.8 - - - - - 10 1 30.0 27.3 27.2 34.5
 7 10 0 24.3 30.0 39.2 36.6 - - - - - 10 0 35.6 31.7 32.3 40.3
 12 A.R. only lost A₃ Rej stone after 1st, A & fore

Jan 23 10 0 4.3 4.3 16.4 11.3

24 10 0 44.3 43.3 57.6 52.3 lost A₂ 12, 3.

25 10 0 20.7 26.0 34.7 29.3

Morning

June 14 15 4 55.9 9.1 18.2 56.7 20 1 9.0 23.1 33.1 10.1

17 15 4 56.9 10.0 20.0 56.7 20 1 2.0 18.4 25.9 0.9

24 15 4 54.1 8.8 17.8 55.2 20 0 56.9 11.5 23.0 59.5

27 15 4 54.8 9.8 19.1 58.2

July 4 20 0 16.1 26.8 41.1 13.3

24 15 4 42.1 51.1 50.4 48.8 20 0 39.6 50.1 49.5 47.1
 lost 1st wire

MRP

M = morning

α Serpentis $\overset{h}{15} \overset{m}{38} \overset{s}{13} + 6^{\circ} 48' 51''$

one reading

1877

Jan 30th. 25-3 38.6 46.9 56.3 47.0 - - - - - 26-3 49.8 55.1 48.8 52.6

R Feb. 1 25-3 29.2 38.1 46.4 38.4 ————— 25-3 40.7 40.3 37.7 44.3

6 254 93 193 289 214

25-4, 216 222 224 241

7 lost 15th in
25 3244 386 49,236.6

25- 3 41.4 41.4 427 44.8

12 25-4 00 9.3 19.3 8.7
Long 1st m

R

Jan. 23 25 4 48.8 51.7 6.0 56.2

24 25 4 46.5 19.1 23 52.9 lost most of the money after A

25 25 3 233 307 389 306

	35	3	31.7	49.7	59.9	35.4	35	4	41.5	57.9	(8.5) ² (58.5)	43.8
June 14	35	3	31.7	49.7	59.9	35.4	35	4	41.5	57.9	(58.5)	43.8
17	35	3	31.6	49.6	59.8	35.3	35	4	41.4	57.8	58	43.7

17 35, 3 31.8 48.8 59.5 32.8 35 4 398 56.2 78 40.2

perhaps lost A_{+2}

18	35	3	27.5	44.1	53.9	28.0	35	4	39.4	55.9	55.1	38.8
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24 35 3 28.9 46.6 57.1 31.9 35 4 5.1 23.5 34.4 8.7

27, 35 3 50,9 9,1 20,0 54,1 36-4 36,1 55,1 7,3 40,4

Jul 4 #7 35 4, 31.7, 45.6 STY 29.7 No R

24 35 3⁷¹ 6.0 18.9 18.8 14.4 35 4 13.9 26.9 26.8 22.1

25 35 3 5,7 18,5 18,1 14,2 35 4 19,8 32,2 31,0 26,9

α Scorpii $16^h 21^m 52^s - 26^\circ 9' 25''$

1877

Jan 30 M. 25 0 9.8 21.3 30.7 19.8 - - - - - 25 0 23.3 26.3 17.8 24.7

Feb. 8 20 4 36.3 48.0 57.3 45.2 - - - - - 20 4 43.2 48.8 46.8 54.3

12 20 4 43.0 52.8 32.5 16 - - - - - R

15 20 4 48.4 58.8 10.0 28 R Rej are but A_{+2} A_{+4} A_{-1} A_{-2}

1877

Aug. 1 30 4 39.3 56.2 56.3 51.7

6 30 4 46.0 1.8 1.7 56.9 Lost A_{-2}

8 30 4 40.8 56.1 55.6 51.2

16 35 0 10.6 23.8 27.4 20.2 lost 1st 3 wires

α Herculis $17^h 9^m 3^s + 14^\circ 31' 56''$

1877
July 20

45 0 44.8 52.0 9.1 57.2 R.

21. 45 0 59.7 7.8 18.6 15.4 R.

22. 45 0 44.3 59.4 11.2 11.3 --- --- --- 45-4 0.3 0.9 59.6 50.2

28 45 1 36.7 50.8 3.6 --- --- --- 45-1 52.2 54.1 52.3 42.2

Time in air of wire

1877

July 24 55 0 5.9 17.1 19.3 12.6 55 1 17.2 29.9 30.3 24.5

29 55 0 2.3 15.4 17.2 12.1 55 1 17.1 30.1 30.4 26.3

Aug. 7 55 0 3.3 15.6 16.6 11.4 55 1 29.9 42.8 43.2 38.7
lost 12th 2 wires

α Ophiuchi $17^h 29^m 14^s + 12^\circ 39' 5''$

Feb. 19 35-3 373 439 560 525 R

21 35.3 37.8 45.3 56.8 543 R.

28 35-3 271 408 535 558 R — — — — — 3 40.0 44.5 43.1 32.8

Mar 5 35-3 384 518 44 144 — — — — — 3 52.0 56.4 55.0 55.1

1877

July 24 45 2 50.4 2.5 3.5 58.1 45 2 6.1 18.2 20.2 13.0

25 45 2 53.1 5.9 4.9 0.8 45 4 5.8 18.7 18.2 13.6

29 45 3 33.2 46.4 47.3 43.9 45 4 10.9 24.9 25.7 21.9

Aug. 6 ^{21.800} 45 2 51.9 4.9 4.6 0.7 45 4 1.8 14.7 15.4 9.6

7 45 2 50.0 2.3 1.9 58.6 45 4 7.2 20.0 20.4 16.7

8 45 2 50.4 3.4 3.5 59.1 45 4 6.1 18.2 18.4 12.8

11 45 2 48.6 0.9 1.5 58.8 45 4 2.1 13.8 15.1 10.1

14 45 2 46.7 58.3 0.8 56.9 45 4 1.4 13.2 15.7 10.2

16 45 2 43.8 55.2 57.9 51.6 45 3 53.4 8.4 5.5 1.1

21 ~~45 3 9.8 20.9 22.9 17.9 45 3 54.6 6.4 7.5 2.7~~

22 ^{lost 1st 2 wires} 46 2 43.6 55.6 57.9 52.7 45 3 53.9 8.2 6.8 2.2

23 45 2 50.8 2.8 5.2 58.9 45 3 57.1 8.9 11.7 4.6

30 45 2 57.1 9.4 10.9 4.6

α Lyrae $h^m s + 38^\circ 40' 13''$

1877

	1	2	3	4	5	6	7	8	9	10	A	B	C	D			
Jan. 30	35	2	42.0	48.3	57.2	51.4	3	35.9	40.9	50.6	43.6	35	3	43.6	47.8	42.8	51.0
Feb. 5	35	2	45.1	50.9	1.0	57.0	4	6.5	11.9	20.9	16.9	35	4	14.4	13.9	15.3	22.7
6	35	2	47.9	53.3	35	56.9	3	36.7	41.8	52.6	47.9	35	3	44.4	43.9	44.6	50.7
12	35	3	27.3	31.6	41.7	34.9											
26	35	2	49.8	60.5	11.3	17.6						2	2.4	1.7	37	55.8	R
27	35	2	52.6	37	13.3	21.3						3	4.3	5.2	6.3	55.8	R

1877

Aug. 6	45	2	13.9	34.6	33.9	31.4	45	3	18.9	29.2	28.4	26.6
11	45	2	3.5	13.2	13.3	12.2	45	3	11.9	21.5	22.0	19.9
12	45	2	6.9	15.2	16.5	13.9	45	3	3.9	13.4	13.6	12.8
16	45	1	53.8	2.4	3.1	1.9	45	2	33.9	45.3	47.1	44.9
22	45	1	59.3	8.1	9.1	6.5	45	2	52.9	2.1	1.6	0.1
23	45	1	58.5	6.9	9.0	6.2	45	2	54.5	2.7	4.4	1.6
27	45	1	56.6	5.8	6.3	5.0	45	2	48.9	58.0	59.1	57.4
28	45	2	2.9	10.2	12.2	9.6	45	2	56.2	5.2	6.9	4.7
30	45	1	59.9	8.6	11.1	9.2	45	3	0.4	9.1	10.7	6.9
Sept 11	45	1	57.4	0.9	0.4	59.0	45	2	44.0	54.7	53.8	52.7
12	45	1	53.0	5.7	4.6	4.2	45	2	45.3	53.4	53.3	53.4
13	45	1	59.8	8.2	8.9	5.2	45	2	49.6	58.5	58.3	56.2
15	45	1	56.5	4.7	5.9	4.4	45	2	52.4	1.5	1.7	0.4
16	45	1	58.1	6.9	7.8	7.1	45	2	53.7	2.9	4.0	3.8
18	45	2	0.9	9.9	10.5	7.7	45	2	51.5	0.2	0.6	58.2
20	45	1	55.9	10.2	8.5	8.0	45	2	53.8	3.8	1.6	1.6
22	45	1	57.9	8.9	5.1	6.4	45	2	48.1	59.2	53.7	53.9
23	45	2	2.7	13.4	11.5	11.1	45	3	9.9	20.2	18.9	17.9

γ Aquilae $19^{\text{h}} 40^{\text{m}} 25^{\text{s}} +10^{\circ} 18' 54''$

1877

1877	B	L	G	H	E	F	G	H	A	B	C	D			
1877	"	"	"	"	"	"	"	"	"	"	"	"			
Feb. 26	55.3	40.9	55.2	5.5	9.4	4	44.2	59.4	9.5	12.7	55.4	58.3	58.3	0.8	50.5
27	55.3	56.4	10.8	20.9	25.4	4	38.0	53.4	3.8	7.7	55.4	51.6	56.2	53.7	43.5

Apr.

Apr 15 55.3 9.6 33.1 34.4 40.7 R

1877

Aug. 16 5 2 48.5 0.1 1.5 58.4 5 3 45.7 56.4 57.4 54.5

22 5 2 48.5 0.4 1.4 57.1 5 3 56.3 8.2 9.1 5.9

23 5 2 44.3 55.4 57.1 53.7 5.3 49.8 0.6 2.5 58.4

Sept 24 5 2 43.4 58.1 53.1 52.3 5 3 44.4 53.1 53.0 52.9

25 5 2 50.9 1.5 1.6 58.7 5 3 39.1 50.1 50.8 48.0

26 5 2 50.1 5.4 5.3 1.6 5 3 49.9 5.2 4.8 1.8

27 5 2 55.6 12.2 11.1 7.0 5 3 49.1 5.0 3.6 1.4

30 5 2 38.4 53.3 53.4 51.9 5 4 4.2 19.3 18.9 18.0

Oct 7 5 2 42.3 57.3 53.7 54.1 5 3 38.5 54.1 52.1 57.1

18 5 2 43.0 58.9 56.4 56.6 5 3 31.4 46.4 45.5 44.9

20 5 2 40.1 53.6 53.5 53.9 5 3 47.4 4.3 0.1 0.9

L. Aquilae $19^h 44^m 47^s + 8^s 32' 42''$

1877 E F G H E F G H A B C D

Jan 30 45 0 10.3 19.8 28.8 19.1 0 56.5 5.2 13.9 4.7 45 1 12.7 11.8 4.3 11.2

Feb. 6 Post $A_{+2} + A_{+1}$
45 0 31.7 40.9 52.0 41.8
 $A_{+2} + A_{+1}$ 45 0 42.3 43.4 41.8 45.3

12 40 4 37.0 47.8 57.3 42.8 0 52.1 3.3 12.9 58.2

21 40 4 41.0 49.9 59.4 54.4 0 49.3 57.3 9.1 3.3

26 40 4 29.7 45.2 56.2 56.4 0 37.9 53.3 57 49 45 0 53.3 54.7 54.0 43.7

? 27, 40 4 36.0 5/4 0.9 3.3 0 41.7 59.2 8.1 10.9 45 0 57.1 59.3 58.3 46.9

Spec 9 40 4 566 108 83 116

15 40 4 204 456 453485

1877

Aug 16 50 3 55.8 7.8 7.5 3.1 50 4 51.9 3.4 3.3 58.9

22 50 3 55.6 7.6 7.7 2.4 55.0 3.1 16.6 19.1 12.2

23 50 3.56.2 7.9 8.8 4.2 50 4 57.5 9.2 9.8 4.7

27	50.3	56.4	8.1	9.5	4.4	53.0	3.1	14.1	17.1	11.1
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28 50.3 53.4 7.2 8.4 2.8 53-0 6.2 18.0 20.9 14.1

Sept-12 50 3 57.2 10.1 8.7 61.1

13 50 3 58.0 10.3 8.5 5.4

18	50	3	54.8	7.2	6.4	1.1	50	4	54.4	7.0	5.8	0.2
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22	50	3	56.8	118	7.6	5.1	50	4	53.4	9.6	9.8	3.1
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23 50 3 54.8 74 4.9 2.8 55 0 3.7 16.4 16.0 12.2

Oct-7	50	3	49.9	6.3	1.9	0.7	50	4	53.2	9.1	5.4	3.9
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17 50 4 42.2 59.4 64.1 57.9 55 0 11.4 29.1 25.2 23.9

1/8 50 4 8 49.3 5.1 1.1 0.8 50 4 52.2 8.1 5.2 3.4

27 50 3 5 1/2 8,0 1,1 1,6 55 0 7,8 24,8 18,9 17,6

2/8 50 3 3-1/1 7.6 0.5 0.7 50 4 51/9 7.9 0.2 1/1

30 50 3 53.4 10.1 5.2 5.1 50 4 56.3 12.2 8.4 7.9

B Aquilae ^h 19 ^m 49 ^s 16 +6° 6' 4"
 1877 Aug 13 *AR.*

1877

Aug 16	20	0	29.3	43.2	43.8	39.0	20	1	31.1	44.5	45.4	40.0
22	20	0	25.8	39.0	39.5	35.1	20	1	33.7	47.4	48.1	43.6
23	20	0	34.0	47.1	49.2	44.3	20	1	35.8	48.9	49.8	45.8
27	20	0	30.1	43.4	45.5	40.4	20	1	40.4	52.9	54.1	49.9
28	20	0	33.4	46.4	48.2	43.2	20	1	41.4	54.2	55.6	50.2
30	20	0	29.9	43.1	44.8	38.8	20	1	31.6	45.2	46.2	40.2
Sept 11	20	0	27.9	42.2	42.4	37.1	20	1	40.1	54.1	52.9	50.7
19	20	0	57.9	7.9	3.6	2.1	20	1	33.9	52.2	48.9	47.1
22	20	0	39.1	53.0	50.5	48.5	20	1	42.9	58.2	53.9	52.1
23	20	0	57.3	11.6	8.8	6.5	20	1	41.2	56.3	52.9	51.0
24	20	lost	~~35.6~~	47.9	47.5	44.0	20	1	36.1	49.3	49.0	45.1
25	20	0	30.1	43.9	42.9	39.2	20	1	39.0	52.7	51.9	47.9
26	20	0	24.5	42.5	42.1	37.2	20	1	36.2	53.6	52.5	48.1
27	20	0	25.3	43.9	42.1	37.1	20	1	28.9	46.3	45.7	40.5
30	20	0	39.1	56.9	56.1	52.8						
Oct 1	20	lost for 2 weeks	29.3	45.4	46.3	41.9	20	1	18.8	35.1	34.1	29.9
7	20	0	24.9	42.1	39.2	37.0	20	1	31.1	48.9	45.5	45.4
13	20	1	18.1	37.3	32.1	31.4	20	1	37.1	53.4	50.2	49.9
17	20	0	47.9	6.8	0.9	1.1	20	1	36.6	53.1	50.9	50.1
18	20	A+1 + full	50.7	8.9	4.7	4.7	20	1	40.9	58.4	53.7	52.7
27	20	0	46.1	5.1	57.9	59.1	20	1	39.2	58.5	51.2	52.5
28	20	lost	~~21.8~~	~~40.2~~	~~31.8~~	33.1	20	1	33.2	51.1	44.6	45.6

2

Se

Q

✓

α Capricorni $20^{\text{h}} 11^{\text{m}} 14^{\text{s}} - 12^{\circ} 55' 28''$
1877

Aug 16, 15- 4 45.1 57.8 1.1 53.1 ~~15-2 36.9 56.5 54.0 47.7~~
16- 15- 2 36.9 50.5 84.0 47.7
A 14 full but lost 3+4

22- 20 1 40.0 54.0 58.0 49.7 20 2 32.1 44.1 47.9 42.1

27- 20 1 54.4 8.1 11.9 4.9 Lost 1st wire

28- 20 1 22.3 36.2 40.3 13.4 20 2 31.5 44.2 49.6 41.8

30 16- 4 25.7 39.3 43.1 33.8 Lost 1st 2 wires

27- 20 1 54.4 8.1 11.9 4.5

Sept- 11 20 2 23.8 38.9 39.9 35.9 The last 6 or 7 wires

12 20 1 30.0 44.0 46.9 40.4 20 2 37.1 50.3 52.6 48.8

13 20 1 26.2 39.4 42.8 35.4 20 2 21.5 35.3 37.9 31.1

15 20 1 23.5 39.9 42.7 35.5

16 20 1 38.2 54.0 53.4 48.9

19 20 1 16.9 33.1 33.2 26.1 20 2 12.1 27.1 26.8 20.9

24 15- 4 20.8 34.6 36.8 29.4

25 20 1 23.3 37.7 40.2 32.5

Oct- 1 20 1 27.8 44.4 47.4 39.9

7 20 1 30.4 48.5 48.2 43.9

13 20 1 37.9 56.9 55.9 53.1 20 2 34.9 53.1 52.6 49.2

18 20 1 46.5 5.3 4.7 1.9 20 2 24.5 42.0 41.7 38.4

Nov 1 20 1 Lost 1st 3 wire
54.1 11.5 9.9 8.1
A 14 full but lost 3+4

α

Sep

C

2 Bygni 20^h 37^m 15^s + 44^s 50^s 30^s

1877

Feb. 5

	8	9	10	11	12	13	14	15	16	17	18	19	20
25 3	72.9	11.5	21.9	18.3	3	48.8	53.4	2.8	0.8	25	3	57.7	54.0
20	25	2	48.4	52.9	2.9	56.4	3	46.9	48.6	0.0	55.2		

1877

Aug 16

22

	35-1	47.4	54.9	56.0	53.9	35-2	44.1	51.6	53.7	50.5
22	35-2	54.1	57.7	58.7	56.1	35-3	18.6	26.9	27.8	26.1

2-2 full

27 35-1 44.8 52.5 55.3 51.9 35-2 33.0 40.9 42.9 40.3

28 35-1 41.2 49.0 51.6 47.1 35-3 2.4 9.9 12.2 9.0

30 35-1 46.5 53.1 54.8 52.4 35-2 41.6 53.0 57.8 47.9

Sept 11 35-1 41.3 51.1 50.3 48.1 35-2 45.0 53.2 54.8 52.1

15 35-2 23.7 30.8 32.0 30.1 35-2 54.9 2.1 2.4 0.8

16 35-1 45.4 53.9 55.9 53.1 35-2 28.7 36.1 37.5 36.1

18 35-1 48.5 57.0 56.4 54.0 35-2 52.9 0.2 59.9 57.6

19 35-1 52.4 3.1 59.7 59.8 35-2 45.7 53.8 52.1 52.9

23 35-1 58.6 1.6 0.1 0.9 35-2 39.9 48.6 47.1 46.0

24 35-1 46.6 54.0 53.5 51.4 35-2 7.9 15.1 15.2 13.2

25 35-1 49.9 57.5 57.1 55.1 35-2 46.9 54.2 53.9 52.5

27 35-1 40.9 52.6 51.4 49.4 35-2 49.2 0.1 59.1 58.2

Oct 1 35-1 36.0 46.1 46.8 45.0

28 35-1 32.8 46.8 39.7 42.8 35-2 18.1 31.0 24.2 27.2

♂ Aquarii 21 59 28 - 0° 55' 0"

1877

♂ - ♀ - ♀ - ♀

♂ - ♀ - ♀ - ♀

Aug 16	20	1	6.3	16.9	22.4	14.1	20	2	35.8	45.5	51.0	43.7
22	20	1	11.9	25.0	27.4	20.9	20	2	13.2	26.6	28.1	22.4
27	20	1	12.5	25.1	28.7	21.9	20	2	22.0	33.9	36.9	31.0
28	20	1	12.8	25.1	27.9	20.9	20	1	57.7	10.0	73.9	7.5
30	20	1	10.2	23.9	25.7	19.4	20	2	23.3	34.3	38.6	34.6
Sept-12	20	1	8.5	20.7	21.5	16.4	20	2	32.8	44.7	45.9	41.0
16	20	1	18.9	31.1	34.2	28.1	20	2	11.3	23.1	25.6	19.8
18	20	1	7.8	21.1	22.3	16.7	20	2	24.8	37.9	38.7	32.7
22	20	1	11.4	26.0	23.1	21.0	20	2	1.1	15.6	12.9	8.2
24	20	1	7.7	21.1	21.6	15.7	20	2	18.8	rej.	27.2	8
25	20	1	10.9	23.2	24.4	19.1	20	2	11.9	24.6	24.4	19.2
30	20	1	10.2	26.7	26.9	23.1	20	2	14.9	31.7	30.8	27.2
Oct 1	20	1	18.5	33.9	35.7	29.9	20	2	18.2	31.3	33.5	28.9
7	20	1	10.3	27.7	25.3	21.4						
13	20	1	9.6	28.1	24.8	22.9						
14	20	1	14.5	31.2	27.9	26.8	20	2	2.4	20.7	16.5	15.9
17	20	1	35.7	53.3	57.1	48.5						
18	20	1	6.1	23.4	20.9	18.2	20	2	20.9	38.1	36.1	33.9
23	20	1	34.1	49.9	48.1	44.8	20	2	24.9	42.2	38.0	36.2
27	20	1	57.1	14.0	8.5	6.0	20	2	22.8	39.9	34.1	32.6
28	20	2	0.3	17.1	10.4	9.1						
29	20	1	7.9	24.3	22.1	22.0	20	2	17.9	34.2	30.9	29.9
30	20	1	14.5	31.9	29.9	25.9						
Nov 4	20	1	11.9	31.1	24.7	23.2						
6	20	1	7.4	25.5	18.8	18.3	20	2	16.4	33.9	27.1	26.9
7	20	1	5.1	21.2	16.6	17.2	20	2	24.8	41.1		

α Piscis Aust. $22^{\text{h}} 50^{\text{m}} 51^{\text{s}} - 30^{\circ} 16' 24''$

1877

Aug 16	40.0	28.2	43.1	43.1	36.9	40.1	22.3	37.9	37.7	31.4
22	40.0	28.5	43.3	44.9	38.0	40.1	21.8	36.4	35.1	30.9
27	40.0	25.9	40.0	40.6	34.4	40.1	22.4	37.1	37.0	31.8
28	40.0	25.6	40.1	41.4	34.6	40.1	19.9	34.1	34.2	28.6
30	40.0	19.5	35.1	34.3	28.7	40.1	19.7	35.7	33.2	28.4
Sept 11	40.0	18.5	34.6	32.5	28.2	40.1	20.5	37.1	34.0	29.8
12	40.0	30.1	45.2	43.5	38.6	40.1	26.9	41.9	40.0	36.6
16	40.0	32.1	45.7	46.9	41.4	40.1	34.1	47.8	48.8	43.1
18	40.0	25.1	41.1	39.3	33.5					
22	40.0	35.1	52.1	46.9	45.0					
25	40.1	35.6	50.4	49.0	43.9					
30	40.0	34.0	51.9	50.3	46.4					
Oct 1	40.0	28.7	45.8	44.9	39.9					
7	40.0	22.1	40.8	35.5	34.9					
13	40.0	39.5	58.6	57.5	57.9					
17	40.0	22.9	42.9	36.6	34.9					
18	40.0	42.6	1.2	57.1	54.9					
Nov. 13	40.0	44.6	5.1	57.2	56.5	40.1	31.9	52.1	43.8	43.5
14	40.0	31.6	57.1	42.6	44.1	40.1	38.6	57.9	49.7	50.1
Dec 1	40.0	29.5	47.8	38.9	38.9					
2	40.0	30.4	47.4	37.9	36.1					

A 3 = fall.

α Pegasi $22^h 58^m 38^s + 14^\circ 32' 39''$

1877			E	Z	G	H			E	Z	G	H
Aug 30	50	4	5.6	22.2	23.2	16.1	50	4	57.0	9.3	10.1	3.1
Sept 11	50	3	53.6	6.3	4.9	0.7	50	4	57.6	10.1	9.2	5.5
12	50	4	2.0	13.5	13.2	8.9	50	4	53.6	7.5	6.0	3.6
16	50	3	56.5	8.4	9.5	4.8	55	0	10.1	21.4	23.4	17.9
18	50	3	51.2	4.2	2.9	56.9						
22	50	3	56.7	10.2	6.0	3.5						
23	50	4	0.9	13.3	12.9	8.6	50	4	44.5	58.1	55.5	57.5
24	50	3	57.5	9.8	9.1	3.9						
25	50	3	54.2	6.0	5.2	0.1						
30	50	3	51.5	6.9	4.4	1.2						
Oct 1	50	3	49.7	4.3	2.7	58.3						
7	50	3	45.2	2.3	58.1	65.3						
13	50	3	50.2	7.2	1.6	0.2						
18	50	3	53.2	10.2	6.9	4.5						
23	50	3	50.9	8.1	1.9	1.3						
29	50	3	53.8	10.0	6.4	7.8	50	4	58.2	13.3	10.0	9.3
Nov 6	50	3	48.4	5.1	56.0	58.2	55	0	1.1	17.1	9.4	9.8
7	50	3	50.8	6.3	58.7	0.0	50	4	58.4	14.4	8.1	8.2
14	50	4	20.9	28.1	29.3	31.8	55	0	12.4	28.9	21.7	22.2
15	50	3	49.1	6.4	0.3	0.7	50	4	53.5	12.6	6.1	7.2
Dec 1	50	3	43.6	59.1	51.0	51.2	50	4	46.4	1.2	52.4	52.4
2	50	3	51.2	5.9	55.8	56.2	50	4	52.1	7.2	56.1	56.1

18770622, p.03, 1385R