1976phae.proj..1397R

RG
11366
v. 393

Fundamental Stars.
Circle Readings.
1878
From 0h to 20h.

Charles W. Sever, University Bookstore, Cambridge.

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α Andromedae $0^h\ 2^m\ 5^s$ $+28^\circ\ 25'\ 1''$

1878			E	F	G	H	
	′	′	″	″	″	″	
Oct. 29	0	1	33.1	39.1	53.6	48.4	
29	0	0	8.2	13.7	27.7	25.6	
Nov. 2	0	1	39.9	45.9	59.7	56.6	
2	0	0	14.9	20.1	34.2	32.0	
3	0	1	40.4	45.1	57.3	53.9	
3	0	0	24.8	30.2	40.2	39.9	
4	0	1	20.7	25.1	33.9	31.3	
4	0	0	20.0	24.2	32.0	31.0	
5	0	1	47.6	51.5	58.9	58.1	
5	0	0	20.8	24.5	33.7	32.2	
6	0	0	32.5	36.1	46.2	43.9	A_{-1} A_{-2}
6	0	0					
12	0	0	52.8	57.3	12.2	10.1	R
12							
13	0	1	39.4	43.5	55.6	53.4	
13	0	0	10.9	16.3	27.6	26.3	
14	0	1	41.7	46.1	58.9	53.9	
14	0	0	16.7	21.6	30.8	29.2	
Nov. 23	0	1	38.0	42.2	52.0	51.9	R
23							
Dec. 6	0	1	50.5	53.4	0.6	0.9	p. f. m. obs.
6							
17	0	1	26.7	31.1	37.9	36.8	
17	0	0	13.3	17.2	23.3	24.6	

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1878phae.proj.r1397R

γ Pegasi $0^h\ 6^m\ 57^s\ +14^\circ\ 30'\ 20''$

1878			E	F	G	H			
	′	′	″	″	″	″			
Nov. 2	55	1	3.5	11.1	26.9	19.3			
2	50	4	38.8	45.3	0.6	55.0			
3	55	1	6.4	14.2	28.4	21.5			
3	50	4	35.8	42.8	56.4	50.2			
4	55	1	10.5	18.1	28.1	21.2			
4	50	4	34.6	40.9	50.9	45.4			
5	55	1	11.8	18.0	28.9	22.5			
5	50	4	41.0	46.8	56.1	51.8			
12	55	1	11.7	18.9	34.7	28.1			
12	50	4	38.8	46.1	1.1	56.2			
13	55	1	9.4	16.1	30.9	23.9			
13	50	4	36.7	43.2	56.9	51.9			
14	55	1	6.5	12.2	25.9	18.6	Rej. A +2		2
14	50	4	40.3	46.0	57.4	53.1			
nov 23	55	1	5.0	11.2	24.4	19.0	R		
23									
30	55	1	9.6	16.5	28.1	24.1	Rej. 2nd 1 δ		
30									
Dec. 8	55	1	12.7	17.9	26.7	20.0			
8									
11	55	0	57.9	5.6	17.1	11.5			
11	50	4	40.2	47.1	58.7	53.7			
12	55	1	9.4	15.9	26.9	21.6			
12	50	4	43.6	49.9	59.8	55.0			
17	55	1	8.2	13.4	23.6	17.9			
17	50	4	36.3	42.5	51.2	46.1			
18	55	0	57.9	3.7	13.2	7.1			
18	50	4	44.6	50.2	58.5	54.7			
23	55	1	9.6	15.2	24.1	19.4			
23	50	4	44.2	50.2	58.4	54.2			

			15.4
			54.9
			17.0
			51.8
			21.4
			59.5
			23.3
			56.8
			12.4
			50.8
			14.6
			48.8
			6.7
			46.2
			10.1
			43.8
Dec. 24	55	1	
24	50	4	
25	55	1	
25	50	4	

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1878phae.proj.1397R

Kappa Cassiopeiae	0h	26m	5s	+62°	15′	30″	
1878				E	F1	G	H6
Jan 5	10	2	4.9	12.5	6 8.2	4.4	
" 5	10	2	58.4	5.8	51.5	58.9	
Nov. 6	10	1′	52.7	51.9	1.9	1.8	
6	10	0	44.6	42.7	53.0	53.8	
Nov. 23	10	1	15.0	14.2	26.2	27.8	R
23							
24	10	1	8.9	8.4	20.6	20.2	
24	10	0	35.6	35.3	47.2	48.0	
26	10	1	8.1	8.1	19.9	18.7	Lost 1st " wire
26	10	0	40.8	40.7	51.7	53.0	
30	10	1	25.1	25.1	36.1	37.2	
30	10	0	40.9	41.0	52.0	53.2	
Dec. 1	10	1	26.9	27.1	37.5	37.3	
1	10	0	38.8	38.0	48.1	49.8	
7	10	1	16.1	14.4	23.5	21.7	
7	10	0	39.8	38.9	46.3	46.3	
8	10	1	12.4	10.9	19.9	18.4	
8	10	0	33.8	31.3	38.8	40.6	
11	10	1	18.6	19.2	29.6	29.1	A 1,2,3,4,5,6+
11	10	0	18.8	19.0	29.6	31.9	A+5,6,7,8,9
25	10	1	27.2	25.6	32.9	32.2	Rej. the alternate
25	10	0	24.2	22.6	29.2	31.0	wires of A+1
17	10	1	27.0	27.1	34.9	35.1	
17	10	0	29.4	28.3	37.0	38.9	

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1878phae.proj.11397R

α Cassiopeiae $0^h\ 33^m\ 29^s$ $+55^\circ\ 51'\ 24''$

1878			E	F	G	H	
Jan. 1	35	0	38.5	48.1	35.3	39.8	~~35 + 12~~
1	35	1	12.5	22.7	9.8	14.4	
Nov. 6	30	4	50.9	50.1	59.3	59.6	Rej. the alternate
6	30	3	47.2	46.7	56.2	56.3	series of A_{+1}
13	30	4	44.2	44.8	55.8	57.2	
13							
Nov. 23	30	4	52.9	54.0	3.9	6.0	R
23							
24	35	0	0.8	1.7	14.8	11.7	
24	30	3	35.2	36.2	47.6	47.2	
26	30	4	43.0	43.9	53.2	52.9	
26	30	3	42.2	42.4	52.5	51.6	~~Rej. 2nd δ~~
30	30	4	21.6	23.6	33.4	33.2	Lost A_{+2}
30	30	3	51.3	52.2	1.2	4.0	
Dec. 1	30	4	58.9	59.9	8.1	9.2	Lost A_{-1}, 1 & 2
1	30	4	8.8	9.5	17.2	19.9	
7	30	4	42.1	42.9	49.7	47.9	Lost A_{+2} 2 & 5
7	30	4	2.3	1.2	7.8	8.1	
8	30	4	46.8	46.1	53.4	51.9	Perhaps 6 strokes for
8	30	4	2.2	1.8	7.0	9.0	last δ
12	30	4	59.7	0.7	10.1	8.9	59.8 0.2
12	30	3	37.8	38.8	47.2	48.8	46.0 46.8
14	30	4	44.7	45.4	53.8	53.7	54.9 0.3
14	30	3	38.2	38.6	47.0	47.2	57.8 59.1
16	35	0	2.2	3.1	11.7	9.8	54.1 55.2
16	30	3	57.8	57.7	4.0	6.8	39.6 41.1
17	30	4	59.6	59.9	6.1	7.1	53.6 54.6
17	30	3	43.8	42.9	49.8	51.8	52.1 52.6
19	30	4	54.1	54.6	2.1	2.1	4 3 4 3
19	30	3	44.0	43.9	50.2	51.2	30 30 30 30
							Dec. 25 25 26 26

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1878phae.proj.1397R

γ Cassiopeiae	0^h	41^m	43^s	$+57°$	$10'$	$5''$	
1878							
Jan 1	15	2	28.7	28.2	26.5	29.1	
1	15	3	16.7	26.7	13.3	17.4	
Nov. 6	15	2	9.4	9.8	19.9	17.8	
6	15	1	56.8	57.2	7.3	6.1	
Nov. 23	15	1	58.7	59.4	10.4	10.3	R.
23							
24	15	2	1.2	2.2	13.6	12.5	
24	15	1	8.3	9.7	20.8	19.8	
26	15	2	9.1	9.3	20.9	17.9	
26	15	0	48.9	49.0	57.5	57.8	
30	15	1	45.7	46.5	58.1	57.1	
30	15	0	42.4	43.0	53.0	54.8	
Dec. 1	15	2	3.8	4.1	13.7	13.5	
1	15	0	50.7	50.2	58.8	1.8	
7	15	2	8.6	7.9	15.9	12.2	
7	15	0	54.9	53.2	0.0	59.9	
8	15	2	9.0	8.3	15.8	14.1	
8	15	0	51.8	50.2	56.3	57.9	
11	15	1	56.6	58.3	8.4	7.3	Lost A_{+2} 1, A_{-1} A_{-2}
11	15	0	33.2	34.9	45.0	45.7	
14	15	2	4.1	4.6	14.2	13.4	
14	15	1	0.4	0.2	8.3	9.2	
16	15	2	7.4	8.1	16.6	14.8	
16	15	0	40.8	39.4	48.8	47.8	
19	15	2	1.9	2.1	10.4	9.4	
19	15	0	39.8	40.2	47.8	47.7	
25	15	1	58.5	56.9	3.9	2.2	
25	15	0	44.1	42.8	49.6	49.9	
26	15	1	58.6	57.9	4.4	3.8	
26	15	0	42.0	41.6	49.0	49.2	

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1878phae.proj.11397R

β Andromedae $1^h\ 2^m\ 55^s$ $+34°\ 58'\ 23''$

1878			E	F	G	H	
	′	′	″	″	″	″	
Nov. 26	25	3	18.0	21.3	31.4	30.7	
26	25	2	7.0	10.0	19.9	19.8	
Dec. 7	25	3	28.9	31.6	38.8	37.8	Lost A −2
7							
11	25	3	21.7	26.1	36.8	35.6	
11	25	1	56.1	0.9	10.2	11.4	
14	25	3	15.9	19.9	28.9	28.1	
14							
19	25	3	26.4	29.3	37.5	36.8	
19	25	2	13.2	16.8	24.4	24.3	
23	25	3	29.5	32.3	40.4	39.9	
23	25	1	58.8	2.3	10.2	9.7	
25	25	3	21.5	23.9	31.2	30.2	
25	25	2	2.8	4.8	12.0	11.6	
26	25	3	6.4	8.1	15.9	14.8	
26	25	1	58.2	0.4	8.4	7.7	
31	25	3	22.0	23.8	32.7	32.9	R Ry 1 of 5.
31							
Jan 5	A.R.		A_{+2}	A_{+1}	A		
6	25	3	26.6	27.4	34.2	35.3	Lost A −2?
7	25	2	41.1	42.0	48.9	50.2	Lost A −2

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α Ursae Min. $1^h\ 14^m\ 3^s$ $+88°\ 39'\ 31''$

1878

Jan. 5
7
16
17
19
22
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Nov 13
Nov. 23
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Dec. 1
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24
25
26

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1878phae.proj:1397R

δ Cassiopeiae $1^h\ 17^m\ 51^s$ $+59^\circ\ 36'\ 1''$

1878			E	F	G	H	
Nov. 24	50	0	49.6	50.0	1.5	0.0	
24	45	4	59.4	59.8	9.4	10.8	
26	50	0	46.2	46.4	56.6	54.9	Lost 1st 2 wires
26	45	4	57.1	56.8	5.3	5.3	
30	50	0	34.9	36.4	47.1	44.9	Lost A +2 A +1 1+2
30	45	4	56.0	56.0	5.2	5.8	
Dec. 1	50	0	35.9	36.4	46.9	44.9	A_{+1} 3 +c
1	45	4	48.8	48.7	57.4	58.2	
14	50	1	10.8	10.6	20.6	18.3	
14	45	4	51.7	51.8	58.9	59.7	
16	50	0	50.6	49.6	57.7	56.9	
16	50	0	1.3	1.2	9.8	9.1	
18	50	0	52.8	52.2	1.2	59.7	Lost 1st wire
18	45	4	53.7	52.9	59.0	0.9	
19	50	0	18.9	19.1	26.8	25.3	A_{+1} 2 +c
19	45	4	47.2	46.0	53.5	54.2	
23	50	0	52.7	52.1	59.3	58.1	Lost 1st wire
23	45	4	53.6	53.3	59.0	59.9	
24	50	0	44.9	43.4	51.6	49.1	Lost 1st 2 wire
24	45	4	53.7	53.7	59.1	59.6	
25	50	0	49.3	48.2	55.6	53.9	Lost 1st wire
25	45	4	53.7	52.2	58.0	57.9	

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		h	m	s	°	′	″	E″	F″	G″	H″	
ψ Piscium		1	24	51	+14	42	21					v
1878												
Nov.	13	40	3	28.9				81.0	43.9	39.0		
	13											
Nov.	23	40	3	26.8				33.7	46.2	41.2		R
	23											
Dec.	11	40	3	24.8				33.1	45.2	38.6		
	11	40	2	0.0				7.1	17.7	13.8		
	12	40	2	29.6				36.2	47.8	40.8		A A$_{-1}$ +A$_{-2}$
	12	40	2	3.2				9.2	20.2	15.7		
	14	40	3	26.8				33.2	43.6	36.5		
	14	40	2	9.1				14.7	24.7	20.0		
~~23~~	~~40~~	~~3~~	~~34.2~~				~~40.0~~					
~~24~~	40	3	35.8				41.8	50.2	43.9			
24	40	2	2.9				7.5	15.8	11.6			
25	40	3	33.0				38.1	46.5	39.7			Rej. 27.9 δ
25												
26	40	3	35.1				41.4	49.8	—			
26	40	1	58.7				4.0	12.7	8.0			

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ν Persei 1h 30m 30s +48° 0′ 33″

1878

			E″	H″	G″	H″	
Nov. 13	3	5	4	8.3	9.8	20.9	20.3	
13								
Nov. 23	2	5	1	29.0	31.2	42.2	40.8	R
23								
30	25	1		28.0	29.6	39.9	39.6	
30	25	0		13.9	15.7	25.2	26.0	
Dec. 1	25	1		8.9	9.4	19.5	18.1	
1	25	0		5.2	5.7	15.7	15.9	
~~18~~	~~15~~	~~4~~		~~58.6~~	~~59.1~~	~~6.2~~	~~5.4~~	~~A+1 Vc. Last come of the wires~~ B.A.
~~18~~	~~Clouds Ds.~~ ?							
26	25	1		22.8	22.1	29.8	28.0	
26	25	0		16.6	16.3	24.7	23.3	
30	25	0		30.8	31.8	38.9	40.6	
31	~~25~~							A A−1 A−2 lost (A−5)
31	25	1		26.3	26.1	34.3	32.9	R
31								

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σ Piscium $1^h\ 38^m\ 57^s$ $+8°\ 32'\ 34''$

1878			E	F	G	H	
Jan. 5	50′	4′	6.8″	21.9″	6.3″	9.0″	
" "	50	4	58.7	12.9	57.2	1.0	
" 7	50	4	18.2	31.6	16.2	30.5	M
" 7	55	0	12.4	24.8	11.5	21.0	M
~~" 9~~	~~50~~	~~4~~	~~6.2~~	~~20.0~~	~~5.0~~	~~17.5~~	
~~9~~	~~55~~	~~0~~	~~8.1~~	~~21.9~~	~~8.0~~	~~18.2~~	
13	50	4	9.1	25.9	16.1	29.9	
13	50	4	58.3	14.2	3.3	19.5	
16	50	4	1.5	17.8	3.1	13.1	
16	55	0	3.2	20.0	7.2	15.2	
17	50	4	6.3	12.9	22.9	15.6	
17	55	0	6.4	12.2	22.8	15.9	
19	50	4	6.1	12.5	24.1	17.4	M
19	55	0	3.0	8.4	22.3	15.4	M
22	50	4	7.0	14.1	27.5	20.1	
22	55	0	14.9	22.3	35.6	27.4	
Nov. 24	50	3	50.2	57.4	9.1	4.6	
24	50	2	21.2	28.7	38.7	35.3	
26	50	3	47.9	54.1	4.3	58.6	
26	50	2	15.4	22.0	31.3	27.3	
Dec. 7	50	3	54.2	0.3	6.1	0.9	~~Lost~~
7							
8	50	3	55.9	1.1	8.4	3.0	
8							
14	50	3	48.7	54.9	3.4	59.0	
14	50	2	15.2	21.9	30.2	26.9	
16	50	3	28.8	34.7	43.6	37.9	
16	50	2	17.2	23.1	30.8	28.2	
~~18~~	~~50~~	~~2~~	~~18.0~~	~~24.2~~	~~32.2~~	~~27.0~~	~~A 54 A~~

Dec. 19	50	3	48.8	55.9	3.4	58.7
19	50	2	20.6	26.9	34.6	30.6
23	50	3	44.8	50.2	56.1	53.2
23	50	2	16.1	23.7	30.2	24.9
24	50	3	43.7	49.3	56.4	51.9
24	50	2	20.3	26.3	32.1	29.0

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β Arietis $1^h\ 47^m\ 55^s$ +20° 12′ 39″

1878			E	F	G	H
Jan. 1	10	4	17.4	31.3	18.9	21.9
" 1	15	0	7.9	23.2	9.8	12.4
" 5	10	4	21.1	35.2	19.9	22.1
" "	15	0	6.3	20.3	16.6	9.5
" 7	10	4	23.9	35.1	17.9	— h
" 7	15	0	37.7	49.2	35.8	48.5 h
13	10	4	15.2	31.1	21.4	34.1
13	15	0	5.8	21.2	13.3	25.2
22	10	4	19.8	25.8	38.9	30.0
22	15	0	37.6	43.8	56.3	50.3
Nov. 24	10	3	17.3	24.1	34.6	31.9
24	10	2	31.7	38.2	49.1	47.0
26	10	4	0.9	5.1	16.1	12.8
26	10	2	26.2	30.7	40.8	38.7
Dec. 7	10	3	58.6	2.9	9.8	5.4
7	10	2	27.8	32.9	38.0	34.9
8	10	4	7.7	11.4	18.5	14.1
8	10	2	30.7	34.8	41.7	39.3
16	10	4	56.1	1.1	9.1	5.2
16	10	2	35.6	39.5	47.8	46.2
18	10	3	36.0	40.6	48.8	45.9
18	10	2	29.3	34.6	41.7	38.6
19	10	3	59.1	4.1	12.1	8.9
19	10	2	29.8	35.2	42.3	40.0
23	10	3	56.2	0.8	7.5	4.8
23	10	2	28.2	33.7	40.2	37.0
31	10	3	57.9	1.2	9.8	7.4
31						

~~A₋₁ 5 + A₋₂~~

R

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1878phae.proj.1397R

δ Cassiopeiae $1^h\ 53^m\ 3^s$ $+71°\ 49'\ 46''$ B

1878

E – F1 – B – A

Jan. 9	~~35~~	~~3~~	~~14.8~~	~~24.1~~	~~7.8~~	~~25.5~~	
" 9	~~35~~	~~3~~	~~39.6~~	~~47.4~~	~~31.1~~	~~50.8~~	
13	35	2	46.9	57.9	47.8	6.9	
13	35	3	6.9	17.4	6.4	27.3	
16	35	2	57.4	6.8	52.5	8.1	
16	35	3	22.6	32.6	17.7	35.9	
19	35	3	3.3	4.7	6.3	12.8	m.
19	35	3	21.7	33.0	~~43.5~~	42.1	m.
22	35	2	58.0	59.1	10.9	6.9	
22	35	3	31.1	32.7	43.5	40.8	
Dec. 7	35	2	35.4	33.6	40.4	39.7	
7	35	1	47.2	44.8	50.8	51.2	
8	35	2	39.0	37.1	44.7	43.9	
8	35	1	54.2	50.8	57.2	59.7	
16	35	2	31.2	29.8	37.3	38.1	
16	35	1	38.8	37.2	44.6	46.8	
19	35	2	16.1	15.9	22.9	23.2	{2 strokes for last wire of A1
19	35	1	38.7	38.2	45.3	47.0	
23	35	2	28.9	28.3	34.1	35.0	
23	35	1	54.8	49.9	55.9	57.9	

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1878phae.proj.1397R

β Trianguli $2^h\ 2^m\ 17^s$ $+34°\ 24'\ 33''$

1878			E	F	G	H	
			"	"	"	"	
Jan. 13	0	2	31.1	45.1	36.4	51.7	
13	0	3	23.9	37.6	27.8	45.0	
19	0	2	42.9	45.2	56.7	54.4	m
19	0	3	28.1	30.9	43.2	40.2	m
22	0	2	35.3	39.6	52.1	47.3	
22	0	3	32.6	36.1	49.0	44.2	
Dec. 8	0	2	23.4	25.7	33.7	32.5	
8	0	0	55.9	58.3	4.0	5.3	
16	0	2	19.8	22.3	30.1	30.8	
16	0	0	50.2	52.1	0.2	0.7	
18	0	2	6.4	9.3	17.9	17.1	
18	0	0	53.4	56.7	4.3	4.4	
31	0	0	48.8	50.7	58.9	58.2	Rej 1st δ.
31							

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1878phae.proj.1397R

33 H. Cassiopiae		2h	26m	27s	+72°	16′	58″	
1878				E	F	G	H	
		°	′	″	″	″	″	
Jan.	1	10	0	54.1	2.2	50.1	54.1	
"	1	10	1	27.2	35.7	21.1	28.7	
"	5	10	0	52.5	59.1	45.4	51.0	
"	5	10	1	24.4	32.3	17.2	22.2	
"	7	10	1	6.7	12.2	57.9	15.1	m.
"	7	10	1	51.6	26.5	12.8	27.9	m.
"	13	10	0	54.8	5.4	55.0	9.8	
	13	10	1	23.2	33.3	23.8	42.3	
	16	10	0	57.7	6.7	52.1	4.1	
	16	10	1	30.0	39.3	23.9	40.2	
	19	10	0	48.0	48.1	59.7	57.4	M
	19	10	0	56.4	56.1	8.1	6.8	M
	24	10	0	57.8	60.1	56.2	53.5	
	24	10	1	5′26	51.2	5′.7	5′58	
	28	10	0	53.2	53.2	1.9	0.4	
	28	10	1	44.1	43.2	52.3	51.3	
	29	10	1	0.7	57.4	4.1	3.3	m
	29	10	1	26.2	24.8	31.4	29.6	m
Dec.	8	10	0	34.0	32.1	39.6	38.8	
	8	5	4	40.8	38.4	45.4	45.2	
	18	10	0	5.0	4.6	11.8	12.3	
	18	5	4	36.4	35.2	41.8	42.6	
		~~40~~	~~3~~	~~1.9~~				
	31	10	0	16.6	14.9	22.7	23.7	R
	31	~~10~~	~~0~~					
Jan.	6	10	0	34.5	31.8	38.1	40.8	R

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1878phae.proj.1397R

θ Persei $2^h\ 35^m\ 52^s$ $+48°\ 42'\ 39''$

1878			E	F	G	H	
	′	′	″	″	″	″	
Jan. 1	45	0	8.2	18.1	4.9	9.7	Lost 1st wire
" 1	45	0	34.1	43.5	30.4	35.3	
" 5	45	0	17.2	27.1	13.3	16.9	Mid wire & foll
" 5	45	0	56.6	4.9	49.7	55.0	
" 7	40	4	47.9	54.1	36.5	53.8	
" 7							
" 13	40	4	37.0	48.1	37.1	54.8	
" 13	45	0	15.2	27.1	17.3	30.8	
16	40	4	36.2	47.3	29.9	46.2	
16	45	0	26.3	36.3	20.7	34.8	
19	40	4	41.0	41.0	52.1	48.4	M6
19	45	0	20.9	21.1	32.1	29.7	M6
23	40	4	41.5	44.0	52.6	47.2	
23	45	0	34.4	36.6	43.7	40.9	
24	40	4	50.3	48.8	53.5	50.8	R
24							
28	40	4	45.2	45.1	53.4	50.9	
28	45	0	30.2	31.3	39.7	38.4	
29	40	4	47.9	47.0	53.1	50.2	
29	45	0	27.2	27.3	31.8	30.6	
Dec. 7	40	4	32.0	30.9	36.5	35.1	
7	40	3	9.2	8.7	13.0	12.0	
16	40	4	26.4	26.9	32.3	32.7	
16	40	3	0.5	58.9	5.3	5.9	
18	40	4	23.9	25.6	30.9	30.4	
18	40	3	9.6	9.8	16.7	16.4	
19	40	4	27.6	29.3	34.2	33.6	
19	40	3	1.9	1.8	8.0	8.3	
Jan 6	40	4	27.1	26.2	30.6	33.0	R

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1878phae.proj.1397R

7 Persei		h 2	m 41	s 49	+58°	23′	15″	
1878				E	F	G	H	
		°	′	″	″	″	″	
Jan.	1	0	4	33.9	43.1	28.9	34.9	
"	1	5	0	0.3	9.8	58.2	1.7	
"	5	0	4	6.0	15.0	59.3	3.0	m.
"	5	0	4	58.6	2.5	47.1	52.1	m.
"	7	0	4	18.1	24.5	9.7	25.5	m
"	7	0	4	58.8	6.1	48.6	3.6	m
~~16~~								
	16	0	4	8.3	18.9	2.7	16.8	
	16	0	4	44.4	55.2	38.3	52.5	
	19	0	4	8.9	10.1	20.4	17.5	M
	19	0	4	46.4	47.1	57.4	54.7	M
	23	0	4	19.4	21.0	27.9	23.5	M
	23	0	4	58.9	1.3	7.4	3.8	M Rej A-, 2
	24	0	4	14.5	13.9	19.1	15.2	m
	24	5	0	2.9	2.5	7.1	4.4	m.
	28	0	4	11.6	12.3	20.2	16.9	
	28	0	4	58.2	58.8	6.1	5.7	
	29	0	4	16.1	15.2	21.0	18.6	
	29	0	4	53.5	52.3	56.2	55.9	
	30	0	4	10.5	9.4	15.2	11.7	
	30	0	4	47.2	45.3	51.0	48.9	
Dec.	18	0	3	57.7	58.1	4.2	4.7	
	18	0	2	46.2	46.6	52.9	53.9	
	19	0	3	55.5	55.8	2.3	1.5	
	19	0	2	33.6	33.8	39.9	40.7	
Jan	6	0	3	23.2	22.1	27.9	29.8	R
		~~45~~	~~4~~	~~50.9~~	~~57.1~~	~~58.8~~	~~0.6~~	

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1878phae.proj.1397R

α Ceti 2h 55m 54s +3° 36′ 36″

1878			E	J	G	H	
	′	′	″	″	″	″	
Jan. 28	50	0	6.5	14.0	22.3	18.1	
28	50	1	6.7	14.9	22.7	18.4	
29	50	0	6.9	13.5	19.3	13.9	New zero for sheet
29							
Feb. 14	45	4	51.4	59.2	6.1	3.1	m
14	45	3	25.9	33.9	41.6	37.2	m
Dec. 18	45	4	23.9	32.5	37.3	34.7	
18	45	3	7.7	15.5	20.3	18.7	
19	45	4	23.7	32.2	36.9	34.2	
19	45	3	15.9	23.7	28.2	27.1	
Jan. 5	45	4	41.9	47.9	0-2.3	53.0	
6	45	4	50.9	57.1	58.8	0:6	
Jan. 6							
20	45	4	45.7	51.9	56.3	55.1	
20	45	3	18.4	25.7	27.8	28.8	
25	45	4	47.8	54.9	3.7	3.5	
25	45	3	14.8	22.8	31.8	32.0	
26	45	4	39.6	46.8	51.6	48.8	
26	45	3	15.1	22.1	26.3	24.9	

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1878phae.proj.1397R

3 Persei		3h	0m	14s	+40°	29′	2″	
1878				E	F	G	H	
Jan.	24	55	3	32.0	32.1	39.7	33.8	} Obs? Clouds.
	24	55	4	17.3	17.8	24.2	20.5	
	30	55	3	36.9	25.9	46.1	40.1	
	30	55	4	23.4	~~23.6~~	30.7	26.3	
Feb	2	55	3	2.5	3.2	12.3	7.4	m
	2	55	4	26.2	26.9	35.4	31.1	m
	3	55	3	0.2	2.8	12.3	6.3	m
	3	55	4	18.1	19.7	28.9	23.8	m
	5	55	3	18.0	21.4	32.2	28.8	m
	5	55	4	2.9	5.3	17.1	12.9	m
	14	55	2	30.3	33.3	44.9	39.0	m Lost A+1
	14	55	1	42.7	45.1	56.8	51.1	m
~~Dec.~~	~~18~~	~~55~~	~~2~~	~~56.6~~	~~58.7~~	~~6.3~~	~~5.0~~	
	~~18~~	~~55~~	~~1~~	~~38.8~~	~~40.8~~	~~49.8~~	~~46.4~~	
Jan 6		55-2		43.8	44.3	52.0	58.4	
		~~55~~						~~Reg. 1st δ.~~
Jan 6		55	1	27.0	27.7	34.0	36.8	Reg. 1st δ
	6							
	20	55	3	0.1	1.4	9.8	8.1	
	20	55	1	32.9	34.3	41.2	42.1	
	23	55	2	54.1	57.2	(8.1?)	5.9	
	23	55	1	49.0	51.3	1.6	2.8	
	25	55	2	53.6	56.1	8.4	6.6	
	25	55	1	34.0	36.9	49.2	49.2	
	26	55	3	1.1	2.3	10.4	7.2	
	26	55	1	34.3	35.2	43.2	43.2	

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1878phae.proj.1397R

48 H. Cephei $3^h\ 4^m\ 54^s\ +77°\ 17'\ 0''$

1878

			ξ	ζ	G	h		
			"	"	"	"		
Jan. 1	10	1	1.4	9.1	56.1	4.1	m	34.1 47.2
1	10	1	31.6	40.1	25.1	33.1	m	30.9 41.2
5	10	0	51.4	0.1	43.4	51.0	m	
5	10	1	9.9	17.4	0.1	9.6	m	26.3 37.9
13	10	0	42.2	52.5	42.4	58.9	m	
13	10	0	54.7	5.9	54.0	13.7	m	
22	10	1	17.9	18.1	29.7	27.4		27.9 39.7
22								
23	10	1	17.1	15.5	21.8	21.8		0 4
23	10	1	40.7	38.9	43.8	44.8		
29	10	1	13.1	11.4	16.0	16.7		10 5
29	10	1	34.4	31.8	36.1	38.9		
30	10	1	11.5	9.2	14.5	14.6		26 26
30	10	1	32.6	31.4	34.1	37.2		
Feb 2	10	0	46.9	45.2	51.0	50.9	m	
2	10	1	51.4	49.9	55.0	55.7	m	
3	10	0	59.2	58.1	4.6	4.6	m	
3	10	1	46.2	45.8	52.9	51.9	m	
4	10	0	55.9	56.1	3.1	4.9	m	
4	10	1	42.1	42.1	50.0	50.1	m	
5	10	0	41.9	42.9	51.4	52.2	m	
5	10	1	40.7	41.1	49.9	50.9	m	Hour strokes for 2nd δ
1879 Jans	10	0	16.9	14.2	20.0	24.4		
5								
20	10	0	29.3	28.2	31.9	37.3		
20	5	4	45.6	43.8	46.2	54.0		
23	10	0	15.8	16.4	24.1	26.7		
23	5	4	31.1	30.5	37.8	41.9		
25	10	0	15.4	15.9	25.2	28.6		
25	5	4	19.9	20.2	28.8	32.9		

1879 Jan 26

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1878phae.proj.1397R

2 Persei	h 3	m 15	s 37	+49°	25′	30″	
1878							
Jan 5	3	1	48.9	58.0	43.6	46.8	m
5	0	2	20.3	29.3	14.4	19.0	m
14	0	1	47.5	58.6	49.5	2.2	
14	0	2	18.0	29.6	19.4	34.2	
16	0	1	03.8	2.9	47.4	0.1	
16							
19	0	1	50.4	51.2	2.1	58.5	
19							
23	0	2	3.1	3.1	8.3	5.9	
23	0	2	37.3	35.9	42.2	38.4	
24	0	2	9.8	8.1	13.4	9.2	
24	0	2	37.0	36.2	39.9	36.1	
~~Jan 6~~	~~0~~	~~1~~	~~43.3~~	~~41.8~~	~~48.2~~	~~50.1~~	~~R~~
~~Jan 9~~	~~0~~	~~2~~	~~37~~	37.2	44.4	47.8	
Jan. 20	0	1	39.1	38.6	44.3	44.9	
20							
23	0	1	4.9	5.2	15.1	13.6	
23							
25	0	1	15.0	15.1	25.1	26.2	Rej. alternate wires of A_{+1}
25	0	0	9.1	9.3	20.4	21.0	
26	0	1	28.9	26.8	32.6	33.6	
26	0	0	13.2	11.7	18.0	19.6	

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1878phae.proj.1397R

δ Persei $3^h\ 34^m\ 14^s\ +47°\ 23'\ 44''$

1878

			E	F	G	H	
Jan. 24	0	3	44.8	44.9	50.6	45.9	
24	0	4	26.3	25.6	30.0	28.3	
30	0	3	41.1	40.4	47.4	43.8	
30	0	4	15.6	15.0	20.7	18.3	
Feb. 2	0	3	31.8	31.9	38.2	35.1	m
2	0	4	48.7	47.8	54.9	51.1	m
11	0	2	26.0	27.9	36.6	31.9	m A$_{-1}$ & A$_{-2}$
11	0	2	6.6	7.7	17.1	13.0	m
Found on 14? 14th [13]	0	3	26.4	28.1	37.0	34.1	m
14? Sheet not on 13th [13]	0	2	9.8	11.2	20.2	16.2	m
Dec. 31	0	2	53.7	53.3	0.3	59.2	R lost 1st three wires
31							
Jan 5	0	3	21.9	21.2	27.3	28.2	
~~19~~	~~0~~	~~3~~	~~17.8~~	~~22.7~~	~~29.6~~	~~30.9~~	
20	0	3	22.9	22.3	28.1	28.4	
20	0	1	59.4	58.7	3.9	5.9	
23	0	3	15.1	~~15.9~~	25.9	~~27.5~~	
23	0	2	1.3	1.7	10.9	10.5	
25	0	2	53.3	54.5	5.4	4.9	Lost 1st wire
25	0	1	55.8	57.6	7.4	7.7	
26	0	3	28.1	27.4	34.1	33.1	
26	0	2	0.2	58.7	4.4	4.1	

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1878phae.proj.1397R

Persei 3^h ~~57^m 52^s~~ 49^m 40^s $+39°\ 39'\ 19''$

1878

			ε_{11}	ζ_{11}	η_{11}	η_{6}	
Dec. 23	45	2	52.5	52.7	59.5	57.9	
23	45	1	20.0	23.1	28.9	28.2	
31	45	2	47.4	48.9	56.3	56.1	R
1879 Jan 5	45	1	52.2	50.7	57.7	58.7	
20	45	2	40.1	41.1	47.8	47.6	
20	45	1	25.8	27.2	32.9	34.2	
23	45	2	40.2	42.5	52.6	51.8	
23	45	1	8.6	11.1	21.1	20.5	
25	45	2	48.0	50.4	1.8	1.4	
25	45	1	21.4	25.2	35.9	36.6	
26	45	2	40.7	41.1	49.2	45.9	
26	45	1	23.3	24.2	30.5	30.7	

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1878phae.proj.1397R.

Groom. 750 $3^h\ 58^m\ 49^s$ $+47°\ 23'\ 5''$

1878			ε	A	G	H	
	′	′	″	″	″	″	
Jan 20	10	3	8.9	7.1	10.3	12.1	A
20	10	2	4.1	1.7	2.7	6.9	1 stroke for 2nd & 1
25	10	3	25.2	26.7	33.9	36.2	Lost 1st 4 wires
25	10	2	56.5	57.2	4.5	7.3	
26	10	3	52.2	49.1	53.2	53.7	Perhaps 6 strokes for 1st &
26	10	3	21.2	17.5	20.7	23.1	

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1878phae.proj.1397R

1 Tauri	h 4	m 15	s 54	+17°	15′ 45″	16		
1878								
Jan 5	10	2	16.3	29.3	~~16.~~ 16.4	17.2	Mid wire & foll	
14	10	1	29.1	45.4	36.9	49.0		
14	~~46~~ 10	2	29.3	45.8	35.7	49.4		
16	~~14~~ 10	1	30.6	44.4	29.1	38.7		
16	~~14~~ 10	2	35.8	49.1	34.2	49.5		
23	10	1	37.6	40.1	48.6	38.9		
23	10	2	35.7	37.7	44.9	38.8		
~~28~~	~~10~~	~~1~~	~~38.9~~	~~44.2~~	~~53.9~~	~~46.9~~		
~~28~~	~~10~~	~~2~~	~~31.2~~	~~36.2~~	~~44.9~~	~~41.1~~		
29	10	1	40.8	45.1	53.1	45.4		
29	10	2	~~33.6~~ 33.9	37.6	35.3	38.5		
30	10	1	46.8	49.8	58.0	51.1		
30	10	2	37.3	40.2	47.4	43.3		
Feb 2	10	1	28.1	32.5	40.8	33.7	m	
2	10	2	47.1	~~59.6~~ 50.6	58.6	52.2	m	
3	10	1	37.8	40.2	50.5	43.4	m	
3	10	2	51.9	55.9	4.8	58.0	m	
4	10	1	29.1	34.2	44.2	38.2	m	
4	10	2	46.4	51.1	0.9	55.6	m	
5	10	~~2~~ 1	35.2	40.3	51.5	46.7	m	
5	10	2	48.9	53.2	4.6	58.9	m	
6	10	1	41.9	47.9	0.7	55.0	m	
6	10	2	42.6	47.9	1.1	55.2	m	
7	10	1	25.2	31.5	48.5	41.6	m	
7	10	0	6.8	12.1	28.9	22.2	m	
11	10	1	30.7	36.2	46.1	39.8	m	
11	10	0	10.7	16.3	26.2	19.3	m	
14	10	1	34.2	40.1	51.2	44.0	m	
14	10	0	8.2	14.3	24.4	18.3	m	

Feb. 16	10	1	23.8	30.2	42.2	35.6	m	
	10	0	6.5	12.2	23.7	18.7	R	
	10	1	30.1	36.6	46.9	40.2	m	
	10	0	9.3	14.8	24.9	19.6	R	
	10	1	30.3	36.3	44.8	38.6		
	10	~~2~~ 0	2.2	6.9	16.1	11.2		
	10	1	24.9	30.1	37.9	32.9		
	10	0	2.3	6.9	15.2	11.1		
Dec 23								
23								
26								
26								

Lost A

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1878phae.proj:1397R

α Tauri $4^h\ 29^m\ 2^s\ +16^\circ\ 16'\ 1''$

1878			E	F	G	H		
Jan. 1	10	1	9.9	24.3	12.2	13.1		
1	10	2	6.8	20.3	8.4	9.8		
14	10	1	8.7	24.0	15.8	26.1		
14								
16	10	1	16.1	28.5	14.2	22.2		
16	1							
28	10	1	13.0	17.8	27.5	20.6		
28	10	2	10.9	16.8	24.7	20.2		
30	10	1	15.1	19.1	26.8	19.9		
30	10	2	8.5	12.2	19.9	14.2		
Feb. 2	10	0	59.0	2.9	11.1	2.9	m	
2	10	2	16.9	20.9	28.9	21.4	m	
7	10	0	57.3	3.6	18.9	13.2		R
11	10	0	58.7	8.7	13.3	7.6		R
11								
14	10	0	0.9	6.8	17.4	10.3	m	A_{-1} A_{-2}
14	5	4	28.9	34.4	45.4	37.2	m	
16	10	0	54.9	0.4	13.7	5.8		
16	5	4	37.9	43.7	54.3	48.2		
18	10	0	15.2	20.0	30.6	23.1		Lost A_{+2} A_{+1}
18	5	4	36.5	41.7	51.3	45.0		
19	5	4	56.5	0.1	10.1	3.1		A_{-1} A_{-2}
19	5	4	29.5	34.7	42.3	37.7		
26	10	1	5.2	11.2	23.2	15.3		
26	5	4	46.3	51.7	2.2	56.9		
Dec. 23	5	4	45.2	48.3	57.5	51.8		A_{-2}

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1878phae.proj.1397R

ε Aurigae 4h 49m 3s +32° 58′ 16″

1878				E	F	G	H	
Jan.	5	25′	3′	55.4″	6.2″	53.0″	55.9″	
"	5	25	4	46.1	56.7	42.2	47.3	
"	14	25	3	49.7	29	54.2	(6.7)?	
"	14	25	4	46.1	55.8	49.8	51.0	
	16	25	4	3.4	13.2	58.6	8.7	
	16	25	4	52.5	1.8	46.3	59.9	
	23	25	4	15.7	16.1	22.5	15.1	
	23	25	4	54.3	52.7	58.5	55.3	
	24	25	4	22.8	23.6	31.1	25.3	
	24	25	4	54.4	55.2	59.9	57.1	
	28	25	3	57.8	0.3	7.5	3.9	
	28	25	4	41.7	43.0	51.0	48.9	
	29	25	4	23.3	25.1	32.0	27.1	
	29	30	0	6.7	7.8	15.2	11.3	
chron	~~30~~	~~25~~	~~4~~	~~35.8~~	~~36.1~~	~~44.2~~	~~38.2~~	Lost 1st wire
pointer	~~30~~	~~30~~	~~0~~	~~14.8~~	~~15.7~~	~~22.7~~	~~19.7~~	
Feb	2	25	3	47.7	48.6	56.5	52.1	M
	2	30	0	0.4	2.3	10.4	5.9	M
	3	25	3	53.1	53.5	2.8	59.1	M
	3	30	0	4.9	5.9	15.3	11.1	M
	4	25	3	58.2	0.2	9.9	7.5	M
	4	30	0	7.4	10.1	20.2	17.1	M
	5	25	4	21.2	24.2	34.9	30.9	M
	5	30	0	2.9	5.3	17.1	13.5	M
	6	25	4	1.2	4.9	18.3	13.2	M.
	6	25	4	58.4	1.9	15.2	9.9	M.
	11	25	3	46.8	48.4	57.5	53.9	
	~~13~~	~~25~~	~~3~~	~~0.2~~	~~1.9~~	~~13.0~~	~~8.2~~	~~M~~ Lost A+2 + A+1 1+2
	~~13~~	~~25~~	~~2~~	~~20.9~~	~~24.1~~	~~33.9~~	~~30.0~~	~~M~~

Feb.	16	25	3	51.4	54.9	4.9	0.8
	16	25	2	37.7	40.6	51.7	48.2
	18	25	3	49.9	52.1	1.5	57.2
	18	25	2	30.0	32.3	41.9	38.7
Dec.	23	25	3	56.8	58.1	6.1	2.9
	23	25	2	26.8	28.3	36.2	34.4
	26	25	3	50.9	52.1	0.1	57.8
	26	25	2	33.6	34.9	42.8	41.2
Jan	22	25	2	31.3	33.9	45.6	41.8
	22	25	2	11.2	13.1	23.8	21.7

$A_{-1} + A_{-2}$

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1878phae.proj.1397R

ζ Aurigae $4^h\ 53^m\ 57^s$ $+40°\ 53'\ 44''$

1878

				ℓ	Δ	g	Δ	h
		°	′	″	″	″	″	″
Jan.	1	30	3	37.8	49.1	36.6	39.4	
	1	30	4	22.4	33.9	19.9	24.4	
	5	30	3	37.5	48.1	34.7	38.5	
	5	30	4	30.1	40.2	26.1	30.3	
	14	30	3	27.1	40.1	30.9	43.6	
	14	30	4	15.8	29.6	19.1	34.7	
	16	30	3	43.9	53.8	38.9	47.7	
	16	30	4	26.9	37.7	20.6	35.2	
	23	30	3	44.1	43.9	49.4	44.0	
	23	30	4	30.6	30.3	35.2	32.1	
	24	30	3	39.7	41.9	47.4	42.2	
	24	30	4	25.2	27.6	31.1	29.2	
	28	30	3	37.7	39.9	48.4	43.9	
	28	30	4	13.9	16.3	23.2	21.6	
	29	30	3	42.9	44.0	50.8	46.4	
	29							
	30	30	3	38.9	39.9	47.1	41.1	m
	30	30	4	23.6	25.3	31.0	27.1	m
Feb.	2	~~30~~	~~3~~	~~26.9~~	~~27.9~~	~~34.1~~	~~30.8~~	~~m~~
	2							
	3	30	3	26.4	28.2	35.9	32.1	m
	3	30	4	48.1	49.4	57.1	53.6	m
	4	30	3	24.9	26.8	34.5	32.3	m
	4	30	4	43.1	44.9	53.8	51.9	m
	5	30	3	19.6	22.4	32.4	30.8	m
	5	30	4	35.1	38.0	48.9	44.5	m
	6	30	3	29.5	33.0	47.1	41.8	m
	6	30	4	32.6	36.0	49.2	43.9	m
	7	30	3	18.3	21.8	36.1	33.5	R

~~Lost A2~~

Feb.	13	30	3	~~16.8~~	~~19.9~~	~~29.1~~	~~25.3~~	
	13	30	4	~~56.7~~	~~59.5~~	~~9.4~~	~~5.1~~	

m

					32.8	29.0		
					36.9	31.9	43.4	
						46.2	39.1	
						41.6	23.2	
						24.1	36.3	
						37.3		
					27.1	24.6		
						38.3		
						33.9		
						17.8		
						27.3		
					23.1	21.6		
						35.2		
						32.3		
						18.6		
						25.2		
					3	3		
						2		
						3		
						2		
						3		
					30	30		
						30		
						30		
						30		
						30		
Feb.	16					18		
	16					18		
Dec.	26					26		
						22		
1879	Jan					22		

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1878phae.proj.1397R

ε Aurigae $5^h\ 7^m\ 41^s\ +45°\ 52'\ 18''$

1878

			E	H	G	H	
Jan 14	35	0	2.0	18.0	6.2	16.2	Lost A+1
14							
23	35	0	14.7	12.2	19.5	12.9	
23	35	0	58.8	57.2	2.4	5.25	
29	35	0	9.1	9.7	16.8	10.8	
29							
Feb 4	35	0	20.7	22.1	30.8	27.1	
4							
5	35	0	55.1	57.4	6.4	2.4 m	Rej 2nd S
5	3	0	50.4				
6	35	0	50.4	53.1	5.3	59.9 m	
6							
16	30	3	52.9	55.3	4.2	0.4	A_{-1} + A_{-2}
16	30	3	32.6	35.3	43.9	40.5	
18	30	3	51.9	53.8	1.1	58.2	A_{-1} + A_{-2}
18	30	3	25.8	27.7	34.8	33.2	
19	30	4	6.7	8.9	15.9	12.1	A_{-1} + A_{-2}
19	30	3	33.9	34.8	41.5	40.0	
24	30	3	42.8	46.9	58.5	53.7	A_{-1} 3+c.
24	30	3	21.6	25.2	35.4	33.7	
26	30	3	45.5	48.1	57.8	53.9	A_{-1} + A_{-2}
26	30	3	27.9	30.3	38.6	37.3	
28	30	3	35.3	38.8	51.8	47.7	A_{-2} 4+5
28							
March 4	30	3	25.0	37.6	49.8	44.8	A_{-2}
4	30	3	20.0	23.5	34.6	32.0	
5	30	3	48.1	51.2	1.5	57.9	m A_{-1} 4+5, A_{-2}
5	30	3	24.0	27.1	36.8	35.0	R
1879 Jan 23	30	4	54.8	56.5	5.2	47	
23	30	3	33.6	34.4	44.0	43.9	

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1878phae.proj.1397R

β Tauri $5^h\ 18^m\ 35^s + 28°\ 30'\ 9''$

1878			E	Z	G	H				
Jan 14	55	1	58.2	12.1	0.5	15.6				
14	55	2	43.6	58.1	46.3	2.0				
23	55	2	8.8	8.2	13.9	8.9				
23	55	3	2.3	2.3	5.4	5.2				
24	55	2	0.9	4.9	7.6	2.5				
24	55	3	0.8	2.9	5.2	2.9				
28	55	2	3.2	6.2	10.7	8.8	R			
28										
30	55	2	6.4	8.1	14.1	9.4				
30	55	3	3.8	5.6	8.9	7.7				
Feb. 11	55	1	41.9	45.7	52.3	49.3				
11										
16	55	1	53.7	58.1	6.2	2.9				
16	55	0	33.2	37.7	46.1	42.0				
18	55	1	49.9	53.3	59.9	56.0				
18	55	0	35.6	39.7	46.5	44.7				
19	55	1	54.9	57.6	3.5	0.9				
19	55	0	47.2	50.3	57.1	53.8				
24	55	1	47.1	51.3	2.2	58.1				
24	55	0	28.6	34.3	44.5	42.2				
26	55	1	44.7	59.1	6.6	4.1				
26	55	0	25.9	31.3	39.8	36.2				
27	55	1	10.9	14.9	26.4	23.9	Lost A_{-2} + A_{-1}			
27	55	0	23.3	27.7	38.8	38.0				
28	55	1	49.1	52.9	4.3	2.9				
28	55	0	27.2	31.4	44.3	41.5				
March 4	55	1	52.1	56.7	6.9	4.9	m			
4	55	0	26.6	31.3	41.9	38.1	m			
5	55	1	52.9	58.0	6.9	4.1	m			
5	55	0	22.4	27.7	36.6	34.7	R			

Dec 31 55 2 2.2 4.0 9.7 10.0

Jan 6 31 55 1 57.1 59.9 5.0 6.2

Jan 22 55 1 56.7 59.6 6.9 7.5

22 55 0 26.9 30.8 37.6 38.3

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1878phae.proj.1397R

Groom. 966 h 5 m 23 s 26 +74° 57′ 31″

1878

			E″	F″	G″	H		
Jan 12	30′	1′	1.1	10.9	0.0	16.6	Lost 1st w. 2 wires	
12	30	1	10.1	19.8	10.5	25.1		
14	30	0	24.9	30.3	25.1	39.7	m	25.2 33.4
14	30	0	38.5	48.7	38.6	53.8	m	23.8 31.1
23	30	0	45.9	41.4	46.0	43.8	m	
23	30	1	4.9	0.1	4.7	2.1	m	18.2 23.1
24	30	0	36.8	34.6	37.9	37.1	m	
24	30	0	55.9	52.2	57.5	56.1	m	15.6 24.8
28	30	0	21.9	21.2	26.9	26.3	m	
28	30	0	42.6	40.9	48.7	47.4	m.	0 4
29	30	0	36.1	34.2	39.2	37.9	m	30 25
29	30	0	46.9	44.2	49.9	51.1	m	22 22
30	30	0	53.1	58.3	56.4	54.3	m	Jan
~~30~~	~~30~~	~~1~~	~~13.9~~	11.2	17.1	15.1	m	O. K.
Feb. 3	30	1	13.9					
	30	0	14.1	12.1	19.7	19.1	m	
3	30	1	18.3	11.4	18.6	17.1	m	
4	30	0	15.9	14.9	22.1	28.0	m	
4	30	1	28.3	26.8	33.3	34.9	m	
5	30	0	24.8	25.0	32.9	32.2	m	Lost 1st wire
5	30	1	4.5	4.1	12.1	12.2	m	
6	30	0	24.3	24.7	35.8	35.0	m	
6	30	1	6.7	7.1	18.2	16.7	m	
11	30	0	2.2	0.3	6.4	8.7	R	
11								
16	25	4	52.9	52.9	0.2	59.9		Lost A+1
16	25	4	21.5	22.0	29.8	30.4		
19	25	4	45.9	45.0	51.6	50.6		
19	25	4	24.0	22.8	29.0	29.8		
24	25	4	54.5	54.9	5.1	4.0		
24	25	3	53.1	44.8	44.8	44.7		

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1878phae.proj.1397R

ε Orionis $5^h\ 30^m\ 1^s - 1^\circ\ 16'\ 53''$

1878

			E	F	G	H	
Jan. 12	40	3	51.9	8.3	5 9.7	12.2	Lost A_{+1}
12	40	4	26.8	43.2	34.8	48.8	
24	40	3	28.6	34.4	40.5	32.1	
24	40	4	23.3	28.7	33.2	26.8	
29	40	3	27.9	33.5	39.9	30.9	
29	40	4	20.2	25.4	32.1	24.7	
Feb 3	40	3	34.8	39.1	49.5	41.9	
3	40	4	43.5	48.3	56.8	50.8	
4	40	3	33.0	39.6	49.8	43.9	m
4	40	4	39.2	45.0	54.9	49.1	m
5	40	3	13.1	20.8	30.7	24.1	m
5	40	4	27.8	34.3	46.1	37.9	m
6	40	3	14.4	21.0	34.3	27.4	m
6	40	4	36.4	43.8	56.6	50.6	m
19	40	3	15.9	23.1	31.3	24.1	
19	40	1	59.8	6.1	14.3	8.2	
24	40	3	14.8	22.6	35.4	28.8	
24	40	1	50.8	58.8	12.0	6.7	
27	40	3	19.1	26.8	40.1	34.1	
27	40	1	54.6	0.9	15.3	9.7	
26	40	3	25.1	31.9	47.9	41.1	
28	40	1	56.4	2.8	18.8	13.2	
March 5	40	2	38.9	44.8	57.1	51.4	
5	40	1	49.7	57.2	9.2	3.9	

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1878phae.proj.1397R

σ Orionis $5^h\ 48^m\ 34^s$ $+7°\ 22'\ 58''$

1878			ξ_1	η	ζ	θ	
	'	'	"	"	"	"	
Jan. 12	0	3	43.6	2.6	-5 27.7	4.4	
12	0	4	35.2	53.2	42.8	55.9	
24	0	3	48.8	55.5	58.5	51.8	
24	0	4	40.2	45.8	49.3	42.7	
30	0	3	46.8	52.9	58.1	50.9	
30	0	4	58.7	4.2	8.0	2.6	
Feb. 2	0	3	30.9	37.1	42.7	35.1	m
2	0	4	53.9	0.1	3.9	58.1	m
3	0	3	54.9	0.9	5.9	1.1	m
3	5	0	1.4	8.5	15.9	9.3	m
4	0	3	45.5	53.2	0.1	54.7	m
4	0	4	46.8	53.6	0.1	55.2	m
5	0	3	48.1	55.9	4.4	59.2	m
5							
6	0	3	47.0	55.2	5.9	59.4	m
6							
7	0	3	36.1	44.2	58.1	52.7	m
7	0	2	12.5	21.2	35.2	28.7	m
11	0	3	31.2	38.7	45.9	39.1	m
11	0	2	17.9	25.2	32.1	25.6	m
14 (13)	0	2	52.0	0.0	6.8	0.5	m
14 (13)	0	2	10.1	18.7	25.7	19.7	m
24	0	3	46.2	55.9	7.1	0.2	
24	0	2	11.7	20.7	31.3	24.7	
27	0	3	43.4	51.8	3.1	58.1	
27	0	2	18.1	26.7	37.7	33.0	
28	0	3	20.2	29.3	42.8	36.1	
28	0	2	16.7	25.2	38.2	32.2	

A_{-1} Yc.

Lost A_{+2}

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1878phae.proj.1397R

22 H. Camelop. $6^h\ 3^m\ 24^s$ +69° 21′ 34″

1878			E	F	G	H.	
Feb. 6	5′	0′	59″.1	58″.9	10″.2	9″.1	
6	5	2	6.9	6.9	18.8	16.8	
~~7~~	~~5~~	~~0~~	~~47.8~~	~~48.7~~	~~2.5~~	~~0.1~~	0 R

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1878phot.proj.1397R

Ursae Min 4.6. $18^h\ 11^m\ 41^s\ +93^\circ\ 23'\ 29''$

1878

Jan. 12
24
30

Feb 2
3
4
5
6
7
11
14
~~16~~
18
19
24
26
27
28

March 4
5
6
16
19
~~20~~
21

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1878phae.proj:1397R

ν Geminorum 6h 30m 40s +16° 30′ 7

1878			ξ″	ζ″	η″	κ″	
Jan. 12	55′	1	53.5	10.0	1.4	10.0	
12	55	2	43.8	59.1	50.5	3.7	
Feb. 6	55	1	53.1	59.8	13.1	6.1	
6	55	2	48.0	54.2	7.9	1.4	
7	55	1	42.6	47.8	3.9	56.7	m
7	55	0	16.6	23.5	89.1	31.6	m
11	55	1	44.1	47.2	57.6	50.3	m
11	55	0	22.8	27.1	86.4	29.0	m
14	55	1	45.5	50.9	59.4	52.1	m
14	55	0	22.5	28.8	37.9	29.9	m
18	55	1	45.3	50.2	58.8	51.7	
18	55	0	23.7	27.8	36.7	31.0	
19	55	1	48.8	52.9	2.1	54.6	
19	55	0	15.2	20.3	29.3	22.5	
24	55	1	40.5	46.7	59.9	51.8	
24	55	0	28.7	34.7	48.7	42.2	
26	55	1	50.2	55.3	7.1	1.2	
26	55	0	21.7	27.1	39.2	33.0	
27	55	1	48.1	53.9	8.3	1.6	
27	55	0	25.0	31.3	46.3	39.7	
28	55	1	47.6	52.8	8.2	2.8	
28	55	0	18.8	24.6	40.2	34.8	
March 4	55	1	43.8	50.1	3.1	57.2	
4	55	0	22.7	30.3	42.2	35.9	
5	55	1	47.9	53.4	5.7	59.8	
5	55	0	24.3	30.3	43.7	37.3	
16	55	1	45.2	52.1	9.7	2.2	
16	55	0	25.7	32.4	49.8	43.9	
19	55	1	38.8	43.9	58.4	52.1	
19	55	0	24.2	30.6	46.1	39.3	

March 20 55′ 1 6.9 12.2 27.2 20.4 ξ A ζ A η A +2 +7
20 55 0 25.0 31.4 45.9 36.2
21 55 1 50.2 55.4 7.8 1.1
21 55 0 47.0 52.7 4.0 57.7

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1878phae.proj.1397R

ε Geminorum $6^h\ 36^m\ 25^s$ +25° 15′ 12″

1878

			ε	ζ	η	θ
	′	′	″	″	″	″
Jan. 12	10	2	21.2	37.4	25.9	39.2
12	10	3	3.2	17.9	5.7	21.9
Feb. 6	10	1	58.9	4.8	16.9	11.9
6	10	3	6.4	11.8	23.2	19.9
7	10	1	55.7	1.2	15.3	10.8 m
7	10	0	35.4	41.5	55.9	50.6 m
11	10	1	56.1	59.2	5.5	2.2 m
11	10	1	8.1	12.2	20.0	16.1 m bei 1 m in A,
14	10	2	3.9	9.8	15.9	11.4 m
14	10	0	34.1	40.1	47.1	42.6 m
24	10	1	59.7	5.9	16.2	11.2
24	10	0	34.3	40.8	50.6	47.2
26	10	2	6.0	11.4	20.2	15.9
26	10	0	41.3	46.4	55.2	52.2
27	10	2	4.4	10.2	21.9	17.9
27	10	0	38.7	43.9	56.2	54.3
28	10	2	0.6	5.9	19.4	15.3
28	10	0	46.0	51.1	3.7	1.3
March 4	10	2	3.7	8.9	19.4	16.8
4	10	0	32.3	39.0	49.3	45.7
5	10	1	56.5	1.4	12.8	8.8
5	10	0	41.6	47.4	57.3	54.5
16	10	1	56.9	2.3	18.4	14.1
16	10	0	54.6	0.5	15.6	11.5
19	10	2	2.0	8.3	20.4	16.4
19	10	0	44.7	50.1	1.8	59.5
21	10	2	5.6	11.7	20.8	17.2
21	10	0	45.4	51.6	0.5	58.4

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1878phae.proj.1397R

51 H. Cephei $6^h\ 42^m\ 45^s$ $+87°\ 13'\ 53''$

1878

Jan. 12
Feb. 7
11
13
14
18
19
24
26
28
March 4
5
16
19
20
21

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1878phae.proj.1397R

Geminorum $7^h\ 12^m\ 50^s\ +22°\ 12'\ 20''$

1878

			ϵ	ζ	η	μ	
			''	''	''	''	
Jan. 12	10	4	51.1	6.7	53.6	10.1	Lost. md. wire
12	15	0	39.9	55.4	43.0	59.7	
Feb. 7	10	4	33.1	38.9	50.3	47.0	m
7	10	3	17.1	24.0	34.9	31.9	m
11	10	4	41.9	44.9	49.9	47.3	m
11	10	3	13.9	18.5	23.8	20.2	m
13	10	4	44.2	50.2	55.1	52.9	m
13	10	3	17.0	22.6	28.0	25.6	m
14	10	4	45.0	50.1	53.9	49.3	m
14	10	3	26.1	31.8	34.8	31.6	m
18	10	3	32.3	36.9	41.9	38.8	
18	10	3	5.2	8.7	13.1	11.7	A_{-1} 2 &c.
24	10	4	41.8	48.2	55.9	52.6	
24	10	3	26.2	33.2	40.0	38.2	
26	10	4	43.8	49.2	55.9	53.6	
26	10	3	28.0	33.6	39.1	38.5	
March 4	10	4	38.2	44.0	52.8	49.8	
4	10	3	17.8	24.1	31.1	30.6	
20	10	4	46.5	53.2	0.3	58.9	
20	10	3	20.5	27.7	34.7	33.8	

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1878phae.proj:1397R

Groom. 1308 4^h 18^m 10^s $+68°$ $42'$ $41''$

1878			E	F	G	H.
March 6	40	4	56.3	56.1	4.9	7.1
6	40	4	26.1	26.8	36.7	36.9
16	40	4	49.7	49.9	3.1	4.6
16	40	3	52.9	52.9	6.4	7.2
19	40	4	48.1	47.9	59.8	0.3
19	40	4	6.4	6.5	18.0	19.5
20	40	4	41.9	42.8	53.2	53.0
20	40	4	0.5	2.2	10.1	12.2

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1878phae.proj.1397R

Can. Min. α 7h 32m 55s +5° 32′ 10″

1878			E	F	G	H	
Feb. 13	50′	4	25.8″	33.2″	39.6″	33.4″	M
~~13~~	~~55~~	~~1~~	~~80~~	~~15.1~~			
18	50	4	14.7	21.7	26.9	20.9	
18	50	3	7.7	14.1	20.3	15.3	
19	50	3	55.9	3.1	6.9	1.9	Lost 1st 2 wires
19	50	3	17.2	24.6	27.9	25.2	Perhaps 2nd & disturbed.
March 6	50	4	24.1	32.9	43.1	36.9	M
6	50	3	8.5	17.8	27.1	21.9	M
20	50	4	37.5	46.4	54.8	50.2	
20	50	3	11.3	21.7	29.8	25.0	
30	50	4	26.8	35.6	49.1	43.1	
30	50	3	15.8	24.4	46.4	33.7	
31	50	4	36.9	44.9	57.4	52.1	
31	50	3	9.1	16.8	29.1	24.9	

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1878phae.proj.1397R

β Geminor. $6^h\ 37^m\ 51^s\ +28°\ 19'\ 10''$

1878			E	F	G	H	
	'	'	"	"	"	"	
Feb. 13	5	2	48.7	51.8	57.8	55.2	m
13	5	1	42.4	46.0	53.9	49.9	m
18	5	2	9.6	11.9	18.4	15.2	A A_{-1} + A_{-2}
18	5	1	35.3	38.7	44.3	42.5	
19	5	2	19.5	22.9	27.7	25.3	A_{+1} 3+C.
19	5	1	37.3	40.2	45.2	42.8	
March 6	5	2	57.2	2.1	11.2	8.8	m
6	5	1	36.9	41.6	51.9	49.1	m
16	5	2	58.9	3.9	17.1	13.4	
16	5	1	34.7	39.7	53.3	51.4	
19	5	2	57.5	2.0	13.9	9.8	
19	5	1	40.0	44.1	55.3	54.7	
20	5	2	58.9	3.2	12.8	9.5	
20	5	1	38.7	44.0	53.0	50.5	
26	5	2	46.7	51.0	0.9	59.1	
26	5	1	42.2	46.1	56.2	55.1	
30	5	2	16.4	22.1	34.2	31.1	Lost A_{+2} + perhaps some A_{+1}
30	5	1	34.1	39.5	51.5	49.2	
31	5	3	8.9	13.2	25.1	22.3	
31	5	1	34.3	39.7	52.1	49.1	

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1878mae.proj.1397R

Obs. Min. 26. 19h 46m 14s +91° 3′ 42″

1878

Feb. 13
18
24
26
27
28
March 5
6
16
20
21
26
30
31
Apr. 3

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1878phae.proj:1397R

β Cancri. $8^h\ 9^m\ 53^s$ $+9^\circ\ 33'\ 36''$

1878			ℰ	𝒯	𝒢	𝒽	
	'	'	''	''	''	''	
Feb. 24	50	3	14.1	22.2	32.2	26.2	
24	50	1	45.7	53.6	3.7	58.8	
26	50	3	12.9	19.0	28.6	22.9	
26	50	1	49.7	56.7	5.7	1.3	
27	50	3	13.9	20.6	32.5	27.9	Lost A_{-1} 1.2
27			1				
28	50	3	16.1	23.4	36.0	30.9	
28							
March 6	50	2	22.9	29.6	42.6	36.1	m
6	50	1	36.4	43.8	55.8	50.9	m
20	50	2	44.1	52.1	1.9	6.8	
20	50	1	46.3	53.3	3.1	58.6	
21	50	2	50.2	56.8	6.3	0.6	A_{+2} broken, ejected
21	50	1	45.0	51.8	0.9	56.1	
26	50	3	16.9	24.2	34.9	31.2	
26	50	1	48.3	54.6	5.3	2.8	
30	50	3	13.5	20.1	33.5	29.3	
30	50	1	48.2	55.1	8.6	5.1	
31	50	3	16.7	23.2	36.7	31.0	
31	50	1	47.8	54.9	7.9	3.9	

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1878phaeproj.1397R

Ursa Maj. $8^h\ 20^m\ 7^s$ $+61°\ 7'\ 25''$

1878

			E	F	G	H	
Feb. 27	15	4	3".9	4".3	16".4	12".2	A 3 + Foll.
27	15	3	49.2	48.5	57.8	57.8	Rej 1st stroke
28	15	4	8.8	9.2	21.4	18.8	A_{-1} 3 + c.
28	15	3	49.6	49.7	59.3	59.7	
March 5	15	4	24.8	24.3	33.9	31.1	A 2 + c.
5	15	3	45.3	45.6	54.0	52.8	Rej 2nd S, use 3rd
6	15	4	26.1	27.3	37.9	34.9	A, only 1st S?
6	15	4	6.1	7.1	17.8	14.8	
16	15	4	0.9	2.4	15.7	13.2	$A + A_{-1}$, 9 wires
16	15	3	45.9	47.3	0.7	59.7	
19	15	4	28.5	29.2	41.3	38.9	Lost 1st wire
19	15	4	4.7	5.4	16.1	15.6	
21	20	0	13.7	13.8	23.5	20.1	
21	15	4	16.1	16.6	23.8	23.1	
26	15	4	44.9	46.1	55.2	53.2	9 wires
26	15	4	6.1	7.2	16.4	15.4	
31	20	0	6.6	7.9	21.8	17.9	
31	15	4	5.0	6.3	18.2	16.7	

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1878phae.proj:1397R

ε Hydrae $8^h\ 40^m\ 19^s$ +6° 52′ 4″

1878			ε	Z	G	H
Feb. 27	30′	4′	52″.8	1.″3	12.″1	5.1
27	30	3	27.0	35.2	47.5	40.9
28	30	4	53.5	1.1	13.5	8.1
28	30	3	29.9	38.7	50.4	46.0
March 5	30	4	35.1	44.8	53.3	47.1
5	30	3	30.2	39.9	49.0	43.0
16	30	4	51.0	0.3	13.1	7.9
16	30	3	21.6	32.2	44.5	39.6
19	30	4	57.8	5.6	17.1	12.1
19	30	3	41.8	50.3	1.8	57.3
21	30	4	9.5	17.9	26.4	20.1
21	30	3	34.7	42.7	52.0	45.7
26	30	4	32.0	40.1	50.1	45.0
26	30	3	36.3	44.7	54.5	50.7
Apr. 2	30	4	57.0	4.6	19.2	12.8
2	30	3	30.9	39.3	52.4	47.5
3	30	4	55.0	3.2	17.3	13.1
3	30	3	25.7	34.8	48.9	44.6
8	30	4	43.8	51.6	5.1	0.2
8	30	3	29.0	37.3	52.3	47.5

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1878mae.proj.1397R

Ursa Maj. $8^h\ 55^m\ 17^s$ $+47°\ 38'\ 14''$

1878

			E	F	G	H
March 5	45	4	10.2	13.7	22.8	19.1
5	45	3	1.2	3.8	12.7	10.2
16	45	4	13.8	17.2	30.0	26.7
16	45	2	52.0	55.9	8.3	7.8
19	45	4	16.1	19.3	30.5	27.4
19	45	3	1.7	3.8	15.3	12.7
21	45	4	7.9	9.4	18.9	15.0
21	45	2	55.9	58.1	5.1	4.1
Apr. 2	45	4	12.6	14.2	28.1	25.1
2	45	2	45.8	48.7	2.3	0.4
3	45	4	4.4	6.8	21.1	18.5
3	45	2	49.0	50.9	5.0	3.2
8	45	4	10.5	12.9	27.6	23.6
8	45	2	47.2	50.0	4.1	1.8

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1878phae.proj.1397R

	h	m	s	°	′	″
1 H. Draconis	9	19	33	+81	51	48

1878

			E	F	G	H		
March 26	35	1	5.9	7.6	14.5	16.7	m	A_{+1} + A.
26	35	0	48.7	50.4	58.0	0.3	m	
Apr. 2	35	0	56.0	57.2	8.9	11.2		
2	35	0	35.0	36.4	48.1	50.1		
3	35	0	50.1	51.9	2.9	6.1	m	Lost A_{+1} 1,2,3+4
3	35	0	33.8	35.5	46.4	488	m	
8	35	0	52.2	54.2	5.9	6.8	m	
8	35	0	34.1	35.9	48.2	49.4	m	lost 1st wire
14	35	0	54.8	56.0	8.3	9.5		
14	35	0	28.6	29.9	42.2	44.3		

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1878phae.proj.1397R

ε Hydrae	9^h	21^m	36^s	$-8°$	$7'$	$50''$		
1878			E	F	G	H		
March 26	30	3	51.9	59.0	12.8	5.3	Lost 1st 2 wires	
26	30	2	50.5	57.0	10.7	4.5	& the 4th wire of A +1	

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1878phae.proj.1397R

ε Leonis 9h 38m 56s +24 20 5

1878			E	F	G	H.
March 26	5	2	6.9	12.5	22.5	18.2
26	5	0	42.4	47.3	57.2	56.0
Apr. 2	5	2	5.4	10.1	24.9	21.6
2						
3	5	2	2.9	7.7	21.3	18.1
3	5	0	37.3	42.2	56.0	54.3
13	5	2	1.7	6.3	21.9	17.6
13	5	0	37.7	42.4	57.8	56.0
14	5	1	44.0	48.2	2.2	59.4
14	5	0	40.2	44.8	58.6	56.9

Rej. 2m 8

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1878cae.proj.1397R

ε Ursa Maj. $9^h\ 42^m\ 18^s$ $+59°\ 36'\ 40''$

1878

			E	F	G	H.	
April 2	5h 0	i	8.6	9.1	24.5	20.8	
21	45	4	37.3	38.4	51.3	50.7	
3	50	0	49.6	50.6	4.9	2.1	
3	45	4	59.7	0.3	13.0	12.9	
8	50	0	54.9	55.3	10.3	6.9	
8	45	4	53.9	55.1	8.4	6.7	
13	50	0	36.4	37.0	53.1	49.6	9 wires
13	45	4	49.4	50.3	3.4	1.8	
14	50	0	57.6	58.2	13.9	10.1	
14	45	4	36.0	36.8	50.4	49.2	

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1878phae.proj.1397R

α Leonis h 10 m 1 s 52 +12° 33′ 47″

1878

			E	F	G	H
			″	″	″	″
March 30	50′	3′	15.4	23.1	36.5	30.7
30	50	1	52.8	0.6	13.9	8.7
31	50	3	14.3	~~37.6~~	34.9	28.9
31	50	1	52.5	0.9	12.7	8.3
Apr. 2	50	3	15.9	22.4	37.4	31.1
2	50	1	49.6	56.3	12.7	6.3
~~3~~	~~50~~	~~0~~	~~49.6~~	~~50.6~~	~~4.9~~	~~2.1~~
~~3~~	~~45~~	~~4~~				
8	50	3	12.6	19.0	34.0	27.7
8	50	1	53.6	0.3	16.3	9.4
13	50	3	17.8	22.9	38.8	32.8
13	50	1	55.4	1.3	17.3	12.0
14	50	3	~~20.4~~	~~27.2~~	43.2	36.1
14	50	1	50.8	56.5	12.2	16.8

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1878phae.proj.1397R

1 Mon. Maj	h 10	m 15	s 3	+42°	6′	44″		
1878				E	F	G	H.	
March 30	20	0		46.3	50.0	4.2	1.0	
30	15	4		20.4	26.1	38.2	36.2	
31	20	0		41.8	46.0	59.8	56.0	
31	15	4		28.2	32.8	44.8	43.4	
Apr. 2	20	0		49.1	52.1	7.9	5.1	
2	15	4		16.2	20.0	34.0	33.2	
3	20	0		42.1	45.5	0.2	58.6	
3	15	4		27.9	32.2	46.0	44.8	
8	20	0		47.2	49.2	6.0	1.2	
8	15	4		30.3	34.4	48.2	45.8	
13	20	0		41.6	43.2	0.9	56.2	Close comps. for below
13	15	4		20.4	24.1	39.0	37.3	
14	20	0		46.1	48.9	5.2	2.4	
14	15	4		18.8	22.1	36.3	34.8	
16	20	0		50.0	51.1	9.8	6.1	
16	15	4		29.1	41.6	47.8	45.5	

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1879phae.proj.1397R

9 H. Draconis $10^h\ 24^m\ 41^s\ +76°\ 20'\ 25''$

1878			E	F	G	H.	
			"	"	"	"	
March 30	5	2	23.1	25.1	36.5	36.2	A_{+1} + A
30	5	2	5.3	7.1	19.2	18.3	
31	5	2	9.9	11.2	22.3	22.2	Lost A 1
31							A + 1 A.
Apr. 2	5	2	33.9	34.7	48.1	48.8	m_{+1}
2	5	2	8.6	9.2	22.1	23.2	m
8	5	2	32.9	33.2	47.6	46.7	m
8	5	1	59.8	0.2	14.3	13.8	m
13	5	2	17.8	26.5	31.1	31.4	
13	5	1	28.8	29.7	44.0	43.8	
14	5	2	26.3	26.1	40.3	40.8	perhaps lost 5th stroke of 1st S
14	5	1	31.0	31.7	45.8	46.6	
16	5	2	22.1	21.1	36.0	36.9	
16	5	1	35.9	35.5	50.0	51.3	
18	5	2	16.8	16.9	32.2	31.9	
18	5	1	47.2	46.7	1.3	2.9	

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1878nae.proj.1397R

46 Leonis Min. $^h 10^m 46^s 29$ $+34^\circ 52' 21''$

1878

			ε	ζ	η	θ	
March 30	25	0	26.1	29.2	41.9	38.4	
30	20	4	14.2	16.5	28.1	26.5	
Apr. 8	35	0	10.2	14.3	29.1	25.2	
8	30	3	46.8	51.0	4.6	3.2	
14	30	4	58.8	3.2	17.7	14.1	
14	30	3	41.3	44.7	58.8	58.5	
16	35	0	12.0	10.3	27.7	24.1	15 Wires
16	30	3	58.4	1.3	17.7	15.2	

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1878phae.proj.1397R

β Ursa. Maj. $10^h\ 54^m\ 28^s$ $+57°\ 2'\ 9''$

1878

			E	F	G	H.	
March 30	25	0	26.1	29.2	41.9	38.4	
30	20	4	14.2	16.5	28.1	26.5	
31	25	0	28.9	31.1	43.5	40.4	
31	20	4	17.3	20.0	30.0	28.7	
Apr. 13	25	0	5.4	6.8	22.1	18.7	27 wires
13	20	4	29.5	30.8	44.3	41.5	
May 6	20	4	37.7	38.4	56.2	51.1	Lost A_{+2} + A_{+1}
6	20	4	4.3	9.9	27.8	23.8	
8	25	0	20.0	20.9	39.1	34.9	
8	20	4	5.5	5.3	22.2	20.1	

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1878mae.proj.1397R

	Leonis	11h	7m	37s	+21°	11′	31″	
	1878				E	F	G	fb.
March	31	15	0		30.1	37.4	46.0	44.1
	31	10	4		25.7	35.5	45.3	42.7
Apr.	13	15	0		47.1	52.4	5.9	3.1
	13	10	4		14.8	20.5	33.0	31.3
	18	15	0		45.0	50.1	4.2	2.3
	18	10	4		17.0	21.8	35.1	33.2
May	2	15	0		45.0	49.2	7.8	4.1
	2	10	4		13.3	17.1	34.1	32.0
	4	15	0		43.6	48.0	6.3	2.8
	4	10	4		23.2	28.2	46.0	42.3
	6	15	0		42.6	47.8	4.5	0.0 m
	6	10	4		47.2	51.4	8.4	4.1 m
	7	15	0		43.2	47.0	4.9	2.1
	7	10	4		20.0	24.6	40.9	38.9
	8	15	0		43.2	47.1	4.1	1.6
	8	10	4		21.4	24.3	39.4	37.8

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1878phae.proj:1397R

λ Draconis $^h 11\ ^m 24\ ^s 8$ +70° ó 13"

1878			E	F	G	H	
			"	"	"	"	
Apr. 18	25	2	44.1	43.4	59.1	58.0	~~A +A A~~
18							
May 2	25	2	41.5	40.9	0.1	56.9 m	Lost A_1
2	25	2	15.9	15.4	35.0	32.2 m	
4	25	2	17.5	17.1	36.6	33.7	
4	25	1	29.6	39.4	49.3	47.8	
~~6~~	~~25~~	~~2~~	~~42.4~~	~~41.3~~	~~0.5~~	~~56.9~~	
6	~~25~~	1	26.9	26.7	45.3	43.2	
7	25	2	38.9	38.2	56.9	53.8	
7	25	1	32.2	31.3	50.1	48.4	

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1878mae.proj.1397R

Ursa Maj. $11^h\ 39^m\ 30^s$ $+48°\ 28'\ 0''$

1878

			E	F	G	H	
May. 2	55	4	24.1	23.9	42.8	38.1	Lost A_{+2} + A_{+1}
2	55	3	51.9	51.4	9.1	6.8	
4	0	0	11.8	12.2	31.6	28.3	
4	55	3	51.6	51.9	10.0	7.7	
7	0	0	18.1	18.0	36.3	32.9	
7	55	3	54.8	54.2	11.8	9.6	
8	55	4	43.4	44.1	1.7	57.9	A_{-1}, 3? V fell
8	55	3	5.2	55.7	12.7	10.3	

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1878phae.proj:1397R

β Leonis h 11 m 42 s 50 +15° 15′ 16″

				E	F	G	H.	
1878								
Apr.	18	10	1	51.7	57.4	14.8	7.3	A +2 A +1 A
	18							
May	4	10	1	57.0	2.1	23.1	15.9	
	4	10	0	36.7	41.4	2.5	55.2	
	7	10	1	58.8	2.4	22.8	14.9	
	7	10	0	27.2	32.1	5.23	40.9	I F m.
	8	10	1	53.9	59.8	18.9	11.1	
	8	10	0	26.0	31.3	52.0	44.9	

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1878phae.proj.1397R

	h	m	s	°	′	″
4 H. Draconis	12	6	28	+78	17	38

1878			E	F	G	H.	
	′	′	″	″	″	″	
Apr. 18	10	0	18.9	19.5	32.1	33.3	
18	5	4	31.8	32.9	44.1	46.9	
May 2	10	0	8.1	9.1	25.2	24.7	m.
2	5	4	20.0	24.9	41.1	41.2	m.
6	10	0	10.6	11.3	27.9	27.1	
6	5	4	25.6	26.0	40.6	43.0	
7	10	0	30.2	31.2	46.8	46.4	
7	5	4	41.9	41.8	56.5	57.8	
8	10	0	16.9	18.7	33.9	33.8	
8	5	4	19.9	20.6	34.7	37.8	

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1878phae.proj.1397R

η Virginis 12h 13m 40s +0° 0′ 42″

1878			E	F	G	H	
Apr. 18	25′	1′	9″.2	15″.2	32″.1	26″.1	
18	20	4	38.5	44.9	60.5	56.1	
May 2	25	0	32.9	38.1	58.2	52.9	A$_{-1}$ A+A$_{+1}$
2							
6	25	0	30.8	37.5	56.6	49.0	Lost A$_{-2}$
6							
8	25	0	40.1	46.1	6.4	59.3	Lost A$_{+2}$
8							

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1878phae.proj.1397R

κ Draconis. $12^h\ 28^m\ 16^s$ $+70°\ 27'\ 38''$

1878				E	F	G	H.	
		′	′	″	″	″	″	
May	1	0	0	1.6	1.1	20.8	17.8	
	1	55	4	14.7	15.2	32.3	30.8	
	2	0	0	14.1	12.4	31.8	30.9	
	2	55	4	14.7	13.7	31.4	30.3	
	5	0	0	18.1	18.8	37.1	36.8	
	5							
	6	0	0	21.8	20.4	38.9	36.6	
	6	55	4	13.7	13.2	29.8	30.0	
	7	0	0	19.9	19.7	36.9	35.1	Lost A_1 2
	7	55	4	14.3	13.7	30.5	29.8	
	8	0	0	19.0	19.1	36.9	35.9	
	8	55	4	10.3	10.3	26.6	26.2	
June	3	0	0	8.9	8.9	26.8	26.5	
	3	55	4	7.5	7.8	23.8	24.7	
	5	0	0	19.8	20.0	37.1	36.1	
	5	55	4	13.2	12.8	29.6	29.9	
	6	55	4	44.7	45.3	0.7	1.1	
	6	55	4	8.2	9.7	23.8	25.6	

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1878phae.proj.1397R

ε Ursa Maj. 12h 48m 39s +56° 37′ 19″

1878

			E	F	G	H	
May 1	5	0	28.0	29.1	48.1	43.1	
1							
2	45	4	55.4	55.0	14.0	9.8	A, 3 Vc, ~~Lost A −1, +2~~
2							
6	45	4	~~38.8~~	39.0	56.7	54.3	N.R. ~~Lost A −1, +2~~
5			1.9				
6	50	0	1.9	2.1	20.8	15.0	Lost A +2
6							
8	50	0	24.8	26.1	44.1	39.2	
8							
June 3	50	0	1.5	2.9	20.7	17.9	Lost 1st ″ wire
3							
5	50	0	26.0	26.5	44.2	40.1	
5	45	4	7.1	7.1	22.8	21.7	
6	50	0	8.9	11.1	26.7	25.1	
6	45	4	4.7	7.1	20.8	20.1	
9	50	0	20.0	21.4	38.5	36.2	
9	45	3	56.2	59.6	13.8	12.8	

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1878phae.proj.1397R

ε Virginis h 12 m 56 s 6 +11° 36' 55"

1878

			E	F	G	H	
		'	"	"	"	"	
May 1	45	4	50.9	57.0	14.4	8.1	
1	45	3	40.0	45.8	2.7	58.1	
2	50	0	14.4	19.6	39.1	32.0	
2	45	3	45.0	49.9	7.3	3.3	
5	50	0	2.4	9.3	29.3	28.6	W.A.R.
5							
6	50	0	10.0	16.2	34.1	26.8	m
6	45	3	45.1	50.9	7.9	1.2	m
7	45	4	49.1	54.8	12.1	6.3	Lost A_{+2}
7	45	3	46.8	51.3	8.7	4.5	
8	45	4	45.1	51.3	8.2	2.1	Lost A_{+2}
8	45	3	43.6	49.2	7.3	3.0	
June 3	45	3	56.2	2.8	19.3	15.8	A_-, $+A$
3	45	3	35.2	40.3	58.1	55.8	1 stroke for 2nd 8
5	50	0	8.8	14.8	32.3	26.2	
5	45	3	48.1	53.2	9.3	6.0	
6	45	4	22.8	30.9	46.1	41.9	Lost 1st 3 wires
6	45	3	39.6	46.9	1.9	59.6	
9	50	0	0.3	8.1	25.1	20.2	
9	45	3	36.9	45.0	0.2	56.5	

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1878phae.proj:1397R

α Ursa. Min. L.C. $1^h\ 14^m\ 3^s$ $+91^\circ\ 20'\ 29''$

1878

May 1
2
5
6
7
8

June 3
5
6
9
13
19
20

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1878phae.proj.1397R

Vera Maj. pr. $13^h\ 19^m\ 1^s\ +55°\ 33'\ 44''$

1878

			E	F	G	H	
			"	"	"	"	
May 1	50'	3'	30.2	31.9	49.1	45.6	some extra wires A A$_{-1}$ + A
1	50	2	44.6	44.7	1.7	0.2	3 strikes for 1st 2 - 5
June 3	50	2	49.8	51.3	7.8	5.9	A 3 + foll.
3	50	2	36.3	37.3	53.9	53.5	~~A 3 + foll.~~
6	50	3	2.7	5.1	19.6	18.2	A$_{-1}$ 3 + foll.
6	50	2	35.0	37.2	51.2	51.8	
9	50	3	26.9	28.3	44.1	42.0	Lost A$_{+2}$ + A$_{-2}$
9	50	2	49.9	51.3	6.0	5.3	
13	50	3	2.1	3.0	19.5	17.9	Lost A$_{+2}$ + A$_{+1}$
13	50	2	37.7	38.6	54.8	54.2	
~~20~~	~~50~~	~~3~~	~~19.9~~	~~19.4~~	~~35.9~~	~~35.1~~	~~Lost A$_{+2}$~~
~~20~~	~~50~~	~~2~~	~~31.0~~	~~30.8~~	~~47.2~~	~~45.3~~	

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1878phae.proj.1397R

η Ursa. Maj. $13^h\ 42^m\ 44^s$ $+49°\ 55'\ 22''$

1878			E	F	G	H	
			"	"	"	"	
May 1	30	2	7.4	8.2	25.8	21.9	Lost 1 of 2 wires
1	30	1	4.7	5.0	23.1	20.1	
2	30	2	26.9	27.5	46.1	42.9	A_{-2} A_{-1} & A
2							Confusion of wires of A_{-1}
5	30	2	26.9	28.5	47.1	43.1	
5	30	1	1.3	2.9	20.7	17.8	
7	30	2	27.9	28.3	45.2	42.1	Lost A_{-2}
7							
June 13	30	2	16.7	16.0	33.5	33.2	
13	30	0	52.0	52.8	10.1	8.2	
~~19~~	~~30~~	~~1~~	~~32.8~~	~~32.8~~	~~50.2~~	~~47.3~~	~~Lost A_{+2} A_{+1} & part of A.~~
~~19~~	~~30~~	~~0~~	~~53.1~~	~~53.0~~	~~8.9~~	~~8.9~~	
20	30	2	17.4	16.3	33.5	33.1	
20	30	0	46.3	45.9	2.4	2.3	

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1878phae.proj.1397R

γ Bootis	13h	48m	53s	+19°	0′	37″	
1878			E	F	G	H	
			"	"	"	"	
May 1	25	1	43.9	48.9	8.0	1.1	
1	25	0	24.9	31.3	49.7	43.9	
2	25	1	41.4	44.9	5.0	59.4	
2	25	0	18.3	22.8	42.7	37.3	
5	25	1	44.1	51.0	10.8	3.8	
5	25	0	20.9	27.3	47.0	40.3	
7	25	1	45.0	50.0	7.9	2.2	
7	25	0	21.1	27.0	45.3	39.6	
June 3	25	1	34.8	40.9	58.8	54.3	
3	25	0	11.9	18.1	36.2	31.8	
6	25	1	33.5	41.0	56.9	53.1	
6	25	0	20.6	28.8	44.4	40.2	
9	25	1	39.1	45.8	2.2	58.4	
9	25	0	11.3	19.1	35.1	31.8	
13	25	1	33.0	38.7	57.1	52.7	
13			Rej. 2nd S				
~~14~~	~~25~~	~~1~~	~~40.0~~	~~43.9~~	~~2.1~~	~~58.1~~	
~~14~~	~~25~~	~~0~~	~~5.8~~	~~10.2~~	~~28.8~~	~~23.8~~	
20	25	1	40.4	43.9	2.2	57.9	
20	25	0	9.1	13.1	31.3	27.0	
24	25	1	34.7	39.8	58.2	53.9	
24	25	0	17.2	22.8	42.6	37.1	
25	25	1	36.5	41.8	59.8	54.2	
25	25	0	12.7	17.6	35.8	30.9	
26	25	1	30.1	35.9	53.9	49.7	
26	25	0	16.1	21.8	38.9	35.7	

A 1, 2, 3, A
A^{+2}_{+1} A, A^{-2}_{-1} 1, 2, 3 + 4

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1878phae.proj:1397R

α Draconis. $14^h\ 1^m\ 5^s$ $+64^\circ\ 57'\ 32''$

1878			E	F	G	H	
			"	"	"	"	
May 2	25	4	43.8	41.5	58.8	0.1	Lost A_{-1}
2	25	4	18.9	16.2	33.2	33.2	
7	30	0	27.2	26.4	44.1	42.8	Lost A_{+2}
7	25	4	13.6	11.7	27.7	29.8	
June 3	25	4	34.0	34.1	50.1	50.2	Lost A_{+2} + A_{+1}
3	25	4	2.1	2.0	18.3	19.1	
5	30	0	20.0	19.2	35.2	35.1	
5	25	4	31.1	30.9	46.3	46.6	
6	30	0	13.9	14.9	29.8	31.1	
6	25	4	7.3	8.1	21.6	23.2	
9	30	0	18.1	18.2	34.5	34.8	
9	25	4	1.3	1.4	15.9	17.8	
13	30	0	12.8	12.9	29.6	29.9	Rej. wires in A_{+2}
13	25	3	59.2	58.4	15.0	15.7	
19	30	0	19.9	19.1	36.6	35.9	
19	25	3	58.0	56.1	13.2	13.9	
20	30	0	15.2	13.9	30.5	31.8	
20	25	4	2.1	59.8	16.1	17.0	
24	30	0	17.8	17.3	35.4	35.6	
24	25	4	15.4	14.2	31.6	32.1	
~~25~~	~~30~~	~~0~~	~~12.9~~	~~12.1~~	~~30.4~~	~~30.4~~	
~~25~~	~~25~~	~~4~~	~~0.6~~	~~58.8~~	~~15.8~~	~~16.0~~	
26	30	0	17.3	16.8	33.2	33.2	
26	25	4	24.3	15.8	31.2	32.2	

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1878mae.proj.1397R

ξ Bootis $14^h\ 10^m\ 6^s$ $+19°\ 49'\ 7''$

1878

			ξ	η	ζ	H	A +2	A +1	A
June 3	35	3	9.3	14.1	32.2	—			
3	~~3 1~~	~~46.2~~	~~52.1~~					~~2 R~~	
4	35	1	46.2	52.1	9.9	6.0		1 R.	
4									
5	35	3	14.1	20.1	36.4	31.1	A +2	A +1	A
5									
6	35	3	6.4	13.3	28.1	23.8			
6									
9	35	2	51.1	56.9	14.1	10.6			
9									
13	35	3	1.4	6.6	23.8	19.2			
13	35	1	40.6	45.8	3.3	59.7			
19	35	3	5.9	9.8	26.0	22.8			
19									
20	35	3	7.8	11.6	29.4	25.7			
20									
24	35	3	6.4	11.2	30.1	25.6			
24	35	1	36.9	42.2	0.7	57.0			
25	35	3	2.5	7.2	25.4	20.8			
25	35	1	40.0	44.5	2.6	58.7			
26	35	3	6.5	11.6	28.7	24.7			
26	35	1	41.2	46.3	3.8	59.8			

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1878phae.proj.1397R

θ Bootis $14^h\ 21^m\ 7^s$ $+52°\ 24'\ 22''$

1878

			E	F	G	H	
June 3	0	2	50.8	53.0	9.5	7.8	
3	0	1	25.3	28.2	45.0	43.4	
4	0	1	19.1	21.9	39.1	37.8	NR
4							
5	0	2	48.3	51.1	5.9	3.9	
5	0	1	21.8	25.1	40.2	38.0	
25	0	2	45.4	47.6	4.6	1.9	Lost 1st wire
25	0	1	17.9	20.1	36.6	35.3	
~~26~~	~~0~~	~~2~~	~~45.1~~	~~46.9~~	~~3.8~~	~~1.7~~	
~~26~~	~~0~~	~~1~~	~~21.3~~	~~23.8~~	~~40.2~~	~~39.2~~	

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1878nae.proj.1397R

δ Vers. Min. $14^h\ 51^m\ 5^s$ $+74°\ 39'\ 13''$

1878

			ℰ	ℱ	𝒢	ℋ	
June 4	45	2	54.8	54.8	11.3	12.3	2 A R.
4							
5	45	3	29.1	30.1	—	44.9	A_{+1}
5							
9	45	3	36.2	37.4	52.8	53.4	A_{+1}
9							
19	45	3	38.0	36.9	54.2	52.9	
19	45	2	44.7	44.7	0.2	1.1	Lost A_{+1}
20	45	3	10.4	9.7	26.1	25.9	
20	45	2	43.7	42.7	58.1	59.5	
24	45	3	33.9	33.9	50.9	50.4	
24	45	2	43.2	43.3	0.0	1.1	
25	45	3	37.8	37.1	53.5	52.6	
25	45	2	47.2	46.8	2.8	3.9	
26	45	3	32.5	32.1	48.7	48.4	
26	45	2	38.6	38.9	54.3	55.6	
July 1	45	3	38.6	38.0	56.4	56.1	
1	45	2	45.7	44.8	3.0	4.7	
3	45	3	34.0	32.1	51.4	51.0	
3	45	2	44.6	42.2	1.0	2.2	

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1878phae.proj:1397R

δ Bootis $15^h\ 10^m\ 35^s$ $+33°\ 46'\ 16''$

1878

			E	F	G	H	
June 4	40	1	18.7	21.3	40.3	38.1	M A R.
5	40	1	9.9	13.4	29.9	27.1	Lost 1st wire of A +2
5	35	4	48.2	51.8	7.3	6.1	A_H 123 A_2 2345
6	40	1	11.4	16.3	32.2	30.2	
6	35	4	47.1	51.3	5.7	6.9	
9	40	1	14.1	17.9	35.1	32.9	
9	35	4	52.6	56.8	12.4	11.3	
19	40	1	9.8	11.5	30.8	27.8	
19	35	4	43.0	44.3	2.4	0.2	
20	40	1	17.1	18.8	36.5	33.8	
20	35	4	41.4	43.1	0.0	59.1	
24	40	1	4.3	6.2	26.6	23.9	Lost A +2
24	35	4	39.8	42.6	0.5	59.2	
25	40	1	10.4	12.9	30.9	28.2	
25	35	4	41.0	42.3	0.2	58.3	
26	40	1	3.1	5.8	24.7	21.3	
26	35	4	47.0	48.8	6.3	5.2	
July 1	40	1	0.3	1.3	23.1	21.1	
1	35	4	45.8	46.5	6.9	5.2	
3	40	1	11.0	11.0	33.9	30.9	
3	35	4	42.4	42.8	4.3	2.2	
7	40	1	9.1	11.1	31.5	28.2	
7	35	4	42.2	44.9	3.7	1.9	
10	40	1	12.1	13.9	37.1	31.5	
10	35	4	45.1	46.8	9.7	5.7	

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1878cmae.proj.1397R

Obs. Min. $^h15$ $^m20$ $^s56$ $+72^\circ\ 16'\ 6''$

1878

			E	F	G	H	
June. 4	10′	1′	23.″9	23.″8	42.″3	40.″8	Lost A +1 f.T.m
4							
24	10	1	53.1	51.9	10.1	9.0	
24	10	0	45.2	44.7	2.9	2.7	
26	10	1	48.1	46.8	3.9	3.9	
26	10	0	54.6	54.1	10.3	10.6	
July 1	10	1	53.9	51.9	13.1	11.9	
1	10	0	51.8	49.9	9.8	9.8	
3	10	1	24.9	23.1	43.8	40.6	Lost 1st T. wire
3	10	0	51.8	49.7	9.5	9.6	
7	10	1	51.7	50.6	9.7	8.0	
7	10	0	46.9	47.1	5.1	4.8	
8	10	1	58.0	57.6	17.2	15.0	
8	10	0	55.3	55.2	14.8	14.1	
10	10	1	46.4	44.3	5.1	3.1	Rej. wire in the 1st S
10	10	0	52.9	50.6	12.7	11.0	
13	10	1	49.6	48.9	10.2	7.8	
13	10	0	54.4	53.8	15.7	12.6	
15	10	1	36.6	36.1	56.1	54.2	
15	10	0	49.8	49.1	9.9	7.2	

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1878phae.proj.1397R

α Coronae $15^h\ 29^m\ 31^s\ +27°\ 1'\ 36''$

1878

			E	F	G	H.	
July	1st	4	40.3	44.0	58.3	54.9	22 R.
	4						
	6	15 4	48.5	52.9	6.4	6.8	
	6	15 3	19.4	26.2	38.0	39.9	
	19	15 4	49.8	53.1	7.8	6.7	
	19	15 3	16.2	19.7	34.9	33.4	
	20	15 4	41.1	44.1	59.0	57.8	
	20	15 3	24.3	28.0	44.3	42.8	
July	7	15 4	43.4	46.4	3.9	2.2	
	7	15 3	22.3	26.2	43.3	43.1	
	8	15 4	42.8	44.9	3.6	1.9	
	8	15 3	18.6	21.8	40.0	38.6	
	10	15 4	44.5	46.4	6.2	4.1	
	10	15 3	17.0	19.1	39.6	36.8	
	13	15 4	37.2	41.2	0.5	57.2	
	13	15 3	19.6	24.1	43.2	41.2	
	15	15 4	29.9	33.8	53.4	49.9	Lost 1st wire
	15	15 3	15.3	18.2	38.0	35.2	
	23	15 4	40.0	44.1	2.1	0.2	
	23	15 3	15.0	19.2	38.0	36.5	

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1878pae.proj.1397R

ε Serpentis	h 15	m 38	s 16	+6°	48′	39″		
1878			E	F.	G.	H.		
June 4	35	2	36.3	43.7	1.0″	5.1	2nd R Lost 1st & 2 wires	
4								
19	35	3	17.0	24.1	41.1	35.2		
19	35	1	49.6	56.1	14.9	8.8		
25	35	2	14.9	22.0	39.3	34.0	Rej Sta for June 24	
25	35	1	48.3	55.2	12.2	7.2	A_{-1} + A_{-2}	
July 1	35	3	9.3	14.9	34.9	29.6		
1	35	1	50.9	56.5	17.9	11.5		
3	35	3	19.2	24.9	46.1	40.1		
3	35	1	48.3	54.1	14.4	9.6		
8	35	3	22.9	29.0	48.9	42.9		
8	35	1	54.0	59.8	19.9	15.0		
10	35	3	16.9	23.1	45.0	37.8		
10	35	1	49.9	55.3	17.7	10.9		
13	35	2	37.7	45.3	5.6	58.9	Lost A_{+2}	
13	35	1	50.6	57.3	18.9	11.3		
15	35	3	10.0	16.9	37.1	29.9		
15	35	1	45.0	51.8	12.8	5.8		
16	35	3	13.5	20.8	42.0	34.9		
16	35	1	47.4	54.3	14.9	9.4		
23	35	3	15.2	22.6	42.8	36.8		
23	35	1	50.2	57.2	18.0	12.0		

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1878phae.proj.1397R

ε Serpentis $15^h\ 44^m\ 44^s$ $+4°\ 50'\ 47''$

1878

			E	F	G	H
June 4	3	0	5.7	48.2	13.3	17.1

N.A.R.

			E	F	G	H
19	35	1	5.1	12.3	28.8	24.1
19	30	4	42.2	49.9	4.6	0.9
20	35	1	8.1	14.6	30.2	25.9
20	30	4	41.2	48.8	2.3	59.7
24	35	1	5.7	13.2	30.3	25.1
24	30	4	38.9	46.7	2.4	58.9
25	35	1	4.5	11.9	26.2	22.3
25	30	4	36.0	43.9	58.2	55.4
26	35	1	5.7	13.2	29.1	24.1
26	30	4	36.2	44.3	57.3	56.3
July 1	35	1	4.8	11.5	30.8	25.2
1	30	4	37.5	43.9	1.3	56.8
3	35	1	13.1	19.1	39.5	33.9
3	30	4	41.2	47.1	5.1	2.8
7	35	1	9.9	17.1	35.1	32.2
7	30	4	42.2	49.3	5.2	3.4
8	35	1	10.0	17.5	35.8	31.1
8	30	4	39.9	46.8	4.0	1.1
10	35	1	10.9	18.1	38.3	32.0
10	30	4	42.6	49.1	8.7	3.1
13	35	1	5.5	13.2	33.0	26.8
13	30	4	41.8	49.3	7.7	3.2
15	35	1	2.0	9.2	28.8	21.9
15	30	4	55.7	3.7	23.2	16.4
16	35	0	59.1	6.8	26.3	20.6
22	35	0	53.1	1.6	22.1	14.8
22	30	4	36.3	46.1	3.2	58.1

Lost A_{-2}. 1

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1878phae.proj.1397R

Obs. Min. $15^h\ 48^m\ 27^s$ $+78°\ 10'\ 8''$

1878			E	F	G	H.
	'	'	"	"	"	"
June 19	15	2	46.1	46.4	0.8	3.1
19	15	1	55.8	56.2	10.1	13.2
20	15	2	39.0	39.4	53.6	5.9
20	15	2	0.0	0.3	13.9	16.3
25	15	2	35.3	36.1	51.0	52.7
25	15	2	4.4	5.2	16.8	21.3
26	15	2	38.2	38.9	53.1	55.6
26	15	2	1.8	2.1	16.5	16.9
July 1	15	2	31.9	32.2	49.9	50.8
1	15	1	49.2	48.8	5.9	8.0
2	15	2	37.1	36.9	54.9	55.9
2	~~15~~	1	Rej. 27s			
3	15	2	26.9	26.7	44.5	45.9
3	15	2	8.7	8.2	26.1	27.9
7	15	2	38.1	39.1	55.3	56.9
7	15	2	0.8	1.8	17.7	20.5
8	15	2	39.9	40.9	57.8	59.2
8	15	2	4.2	5.2	21.2	23.8
10	15	2	30.5	30.1	48.4	49.5
10	15	2	2.7	2.9	20.8	22.8
13	15	2	40.1	41.1	59.4	59.9
13	15	1	59.8	0.4	18.9	19.3
15	15	2	41.2	41.9	59.1	0.1
15	15	1	58.8	59.2	16.9	17.2
16	15	2	29.3	31.2	48.4	50.8
22	15	2	28.1	30.2	48.2	49.3
22	15	2	8.8	10.1	27.6	28.8
23	15	2	23.8	25.8	43.1	42.7
23	15	1	56.9	58.7	16.0	(19.9)(16.9)

A +1, 7, 8, 9 &c.

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1878phae.proj.1397R

ε Coronae $15^h\ 52^m\ 32^s$ $+27^\circ\ 13'\ 57''$

1878

			E	F	G	H
June 24	10	3	24.6	28.5	45.4	43.2
24	10	1	56.4	0.0	17.0	16.3
25	10	3	21.9	25.4	41.8	39.2
25	10	1	56.4	0.2	16.6	14.5
July 1	10	3	21.9	24.7	44.6	41.8
1	10	1	52.2	55.0	14.3	12.3
2	10	3	19.4	21.9	42.1	39.1
2	10	2	11.6	13.7	33.8	31.4
3	10	3	24.7	27.2	47.2	43.6
3	10	1	57.8	59.6	19.3	17.0
7	10	3	21.9	25.2	44.0	41.9
7	10	1	59.8	3.9	21.8	20.0
8	10	3	25.7	28.8	47.7	45.0
8	10	1	59.6	3.2	22.3	20.2
13	10	3	14.9	19.2	38.5	35.8
13	10	1	45.6	49.8	9.4	6.9
15	10	3	16.9	21.6	41.1	36.6
15	10	1	50.3	54.1	14.3	10.2
16	10	3	15.9	20.2	39.4	34.2
23	10	3	20.5	24.4	44.4	40.4
23	10	1	54.5	58.7	18.1	15.4

Lost some of the wires of A

$A = A_{-1} = +2$ 8.1

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1878mae.proj.1397R

β Herculis	16h	4m	56s	+45°	15′	20″		
1878			E	F	G	H		
June 25	10′	2′	17″.1	18″.9	35″.9	32′.9		
25	10	0	48.3	50.3	6.9	5.3	Rej. 2nd δ, use 3rd	
July 2	10	2	11.9	12.4	33.5	29.3		
2	10	1	4.8	5.2	26.2	23.4		
7	10	2	8.8	10.3	29.1	26.2		
7	10	0	55.8	58.2	17.3	14.3		
16	10	2	5.3	8.4	28.9	24.2	A = 8.6	
16								
22	10	1	53.1	55.4	17.9	12.3		
22	10	0	49.9	52.7	14.9	10.3		
23	10	2	13.7	16.2	36.5	32.1		
23	10	1	20.2	23.2	44.6	40.5		
24	10	1	41.8	43.8	4.2	59.9	Lost A +2	
24	10	0	51.7	53.8	14.8	10.5		

η Draco.							
July 24	40	0	17.4	16.5	38.1	33.2	Comp. seen, but not obs'd
24							

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1878phae.proj.1397R

T Herculis $16^h\ 16^m\ 5^s$ $+19^\circ\ 26'\ 27''$ (46 36 16)

1878

			C	H	G	H.
June 25	50	1	18.8	20.1	37.4	34.2
25	45	4	54.3	55.8	11.4	9.7
26	~~50~~	1	21.4	23.8	40.3	37.3
26						
July 1	50	1	20.0	20.5	41.6	37.2
1						
2	50	1	15.9	16.6	38.0	34.1
2	45	4	54.0	53.5	13.9	11.8
9	50	1	4.8	5.2	27.1	28.3
9						
22	50	1	14.6	17.1	37.6	33.3
22	50	0	13.3	16.4	36.4	31.8
24	50	0	23.4	25.3	46.2	40.1
24	45	4	51.4	52.3	12.1	8.7

Lost A +2 +A +1

Z Draconis $16^h\ 2^m\ 2^s$ $+61^\circ\ 47'$

June 24	40	0	27.2	27.3	46.1	42.9	35	4	37.5	37.1	54.4	53.2
25	40	0	14.7	14.1	31.6	28.8	35	3	56.3	54.9	10.9	10.2
	Comp. not seen, seeing good											
26	40	0	16.0	15.2	33.2	31.6	~~35~~	~~4~~	~~25.6~~			
	Comp. not seen, seeing very good. Prof. pickering failed to see comp.											
July 1	Comp. not seen						July 2		Comp. not seen			
3	(Comp. pr. 5.5 sec. below)						?					
9			28.1	12.2	33.3	31.1						
9	Comp. fair. Prof. Cook ♂. Obs. comp. very faint											
10	Comp. not seen											
15	40	0	7.2	6.8	27.4	22.1	35	4	11.1	11.6	31.0	28.1
16	40	0	16.6	16.3	37.1	34.4						
22	40	0	18.6	19.1	41.0	36.4						
23	40	0	20.8	20.9	42.1	38.6						

A = 7.2 = 9w.

Comp. very sharp & clear A A+A +2 +1
3 strokes for each ♂
A stroke each ♂. Comp. very plain

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1878nmas.proj.1397R

β Herculis h 16 m 24 s 58 +21° 45′ 25″

1878

			ε	Fi	G	16	
			"	"	"	"	
June 26	40′	1	46.1	51.3	6.2	5.2	
26	40	0	25.6	31.8	46.2	45.8	
July 2	40	1	52.3	55.2	15.7	12.1	
2	40	0	22.0	27.4	46.4	43.4	
3	40	1	41.5	45.0	3.1	0.6	
3	40	0	26.8	31.1	49.9	47.0	
7	40	1	48.8	53.6	10.8	9.6	
7	40	0	28.6	29.3	46.7	44.3	
8	40	1	50.9	54.8	13.1	9.4	
8	40	0	23.2	28.6	46.6	43.9	
9	40	1	18.9	24.2	43.3	40.1	
9							
13	40	1	34.8	40.5	59.0	55.4	
13	40	0	19.3	25.2	44.2	40.7	
16	40	1	32.5	38.3	56.2	52.8	A-1 A-2 = 7.2
16							
22	40	1	46.2	51.7	11.0	6.9	
22	40	0	27.1	34.1	52.3	49.5	
23	40	1	45.4	50.4	8.2	5.5	
23	40	0	15.3	21.2	39.1	36.4	
24	40	1	46.4	50.9	9.8	5.9	
24	40	0	31.7	36.3	55.1	51.9	

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1878phae.proj:1397R

ε Ursa. Min. 16 58m 32s +82° 14′ y

1878

			E	F	G	H	
July 2	10	3	29.1	29.2	46.6	47.7	A 24 c.
2			Rej. 2nd T. S				
9	10	3	34.6	35.3	52.9	53.1	
9	10	3	15.6	17.1	34.6	34.6	
16	10	3	44.5	46.2	2.3	3.8	
16	10	3	2.7	4.7	20.2	21.6	A = 8.6
23	10	3	48.7	50.2	5.2	6.9	
23	10	3	25.1	27.2	42.7	44.0	
24	10	4	0.3	1.8	18.1	18.3	5 strokes for 1st T. S
24	10	3	54.1	55.5	11.8	11.8	1 stroke for 2nd T. S
30	10	3	44.6	48.1	3.9	4.6	
30	10	3	32.9	36.2	51.8	53.6	
Aug 14	10	3	30.9	31.5	49.8	49.8	Log A +1
14	10	2	47.9	48.0	5.2	6.2	

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1878phae.proj.1397R

α Herculis $17^h\ 9^m\ 5^s$ $+14°\ 31'\ 52''$

1878

			E	F	G	H	
July 2	55	0	0.9	5.5	28.8	20.8	
2	50	3	45.1	49.8	11.7	5.2	
3	50	4	57.9	2.2	24.1	16.2	
3	50	3	47.3	51.3	13.7	7.2	
8	55	0	4.6	9.4	30.8	23.1	
8			Rej. 2 nd				
9	55	0	3.4	9.2	31.0	24.6	
9	50	3	41.8	46.6	8.7	1.6	
15	50	4	52.1	58.2	19.3	9.4	
15							
28	55	0	6.1	11.4	33.9	24.8	Rej. A −2
28	50	3	28.7	33.9	55.6	47.7	
Aug 12	50	3	39.3	44.1	6.7	59.0	
12							
19	50	3	56.9	58.8	15.2	10.4	
19							

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1878phae.proj:1397R

α Ophiuchi 17h 29m 16s +12° 39′ 2″

1878			E	F	G	H	
July 9	45′	3′	0.″7	6.″4	27.″9	20.″8	
9	45	1	48.6	44.1	6.1	58.8	
10	45	3	0.1	5.1	27.8	19.7	
10	45	1	28.3	34.2	55.3	49.2	
13	45	2	41.9	49.1	9.7	3.1	Lost A_{-2} 1
13	45	1	30.1	36.8	57.2	51.6	
15	45	2	53.9	0.3	20.5	13.2	
15							
16	45	2	49.1	54.9	15.6	9.1	Lost ~~A_{-2}~~ 2
16							
22	45	2	53.2	0.9	21.2	13.9	
22							
23	45	2	53.1	59.6	20.2	12.8	
23							
24	45	2	39.6	43.9	4.7	58.7	
24							
28	45	2	31.9	37.1	58.9	51.7	
28							
31	45	2	38.1	45.9	5.4	59.3	
31							
Aug 12	45	1	29.4	35.7	47.4	50.2	R A_{-2} Zu R
12							
14	45	1	~~43.7~~	48.1	~~10.3~~ 3.2)		R ~~A~~ A_{+1} A_{-2}
14							
19	45	2	53.3	57.8	21.2	12.6	
19							R
27	45	1	59.1	4.1	25.2	19.8	A_{+1} 2 etc R
27							
Sept 6	45	1	12.9	18.0	40.9	32.5	

Sept 8 45′ 2 46.6 55.0 16.1 9.0

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1878mae.proj.1397R

ζ Herculis $17^h\ 36^m\ 1^s$ $+46°\ 4'\ 18''$

1878				E	F	G	H		
July	10	20	3	14.7	16.1	36.7	31.9		
	10	20	2	19.1	21.0	42.2	36.5		
	13	20	3	11.1	13.2	33.3	28.9		
	13								
	15	20	3	3.9	6.9	26.1	22.0		
	15								
	16	20	2	53.9	57.4	16.9	12.0	Lost 1st wire	
	16								
	22	20	3	3.1	5.1	24.9	20.2		
	22								
	23	20	2	30.4	33.5	53.5	48.9	A_{+1} 24 c	
	23								
	24	20	3	12.0	13.2	32.9	29.1		
	24								
	28	20	3	5.0	5.8	26.9	21.6		
	28	20	1	59.6	0.7	21.7	16.7		
	31	20	2	43.5	47.2	6.6	2.7		
	31								
Aug	12	20	2	2.6	3.8	24.9	20.2	R	
	12								
	19	20	3	14.7	6.4	28.4	22.3		
	19								
Aug	20	—	—	6.5	7.3	27.7	24.1		
	20								
	22	20	2	59.3	1.8	22.3	17.2	R	
	22								
	25								
	25	20	2	26.4	30.2	50.2	45.8	Lost A_{+2}	R
	26	20	2	15.8	18.2	38.0	32.4	A_{-3} Eq. others	

Aug 27. 20 2 31.9 33.8 54.5 49.5 Lost 1 of 3 wires

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1878phae.proj.1397R

γ Draconis $17^h\ 53^m\ 47^s$ $+51°\ 30'\ 13''$

1878

			E	F	G	H	
	′	′	″	″	″	″	
July 15	55	2	3.2	5.1	25.9	20.6	
15	55	0	55.8	57.6	17.4	13.0	
16	55	1	52.9	54.2	14.8	11.2	Lost A_{+2}
16	55	0	56.9	58.8	18.7	15.1	
22	55	1	31.9	34.2	54.1	49.0	A_{+2} A_{+1}
22							
23	55	2	23.0	24.9	45.6	40.6	
23	55	1	21.1	22.9	43.7	38.9	
24	55	2	19.8	20.2	40.7	34.9	
24	55	1	5.9	5.8	26.6	21.9	
28	55	2	15.1	16.0	37.3	30.9	A_{+2} 1,2,3+5
28	55	0	53.7	54.7	15.9	10.8	A_{-1} + A_{-2} 1,2+5
31	55	2	16.9	19.7	39.1	34.8	
31	55	0	54.5	57.7	17.2	13.0	
Aug 12	55	2	13.1	13.4	34.9	30.2	
12							
19	—	—	9.4	10.1	31.8	26.0	R
19	—		~~13.7~~				
22			13.7	14.8	35.7	29.9	
22							
25							~~A+1 A+1~~
25	55	2	5.9	8.2	28.1	23.8	A_{+2} A_{+1} ×A A
29	55	2	9.4	9.3	30.1	25.4	R
29							
Sept 12	55	2	4.8	6.8	28.8	20.8	
12	55	1	0.8	2.1	24.1	18.2	
13	55	1	55.7	56.2	20.2	12.0	J.F. mb.
14	55	2	8.8	10.0	33.1	23.2	
14	55	1	29.1	30.7	52.8	43.7	

Sept 15 55 2 9.6 12.9 33.6 24.9
15 55 1 11.2 14.2 34.2 27.5

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1878phae.proj.1397R

δ Herculis $18^h\ 2^m\ 47^s$ $+28°\ 44'\ 48''$

1878

			E	F	G	H	
July 23	40	1	43.8	47.1	5.5	2.1	
23							
24	40	2	25.5	27.8	46.9	43.1	
24							
Aug. 25				A +2	A	A	Rony Lost A −2
25							
27	40	2	16.4	20.2	39.3	34.7	
27							
29	40	2	22.3	24.7	44.0	40.0	
29							
Sept. 10	40	2	13.2	17.3	36.7	29.8	
10							
12	40	2	16.3	20.3	41.4	34.4	
12							
14	40	2	14.3	16.9	38.5	29.8	
14							
15	40	2	10.8	16.1	35.4	28.1	
15							
16	40	2	9.1	12.9	31.6	25.2	Perhaps lost A +2
16							
18	40	2	19.5	23.5	43.8	84.9	
18	40	0	59.6	3.2	23.0	17.0	

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1878phae.proj:1397R

δ Ursæ Min. $18^h\ 11^m\ 41^s$ $+86°\ 36'\ 31''$

1878

July 23
24
28

Aug 20
27

Sept. 6 ϕ F. m. obs.
7 ϕ F. m. obs.
8 ϕ F. m.
10
12
14
15
16
17 ϕ F. m. obs.
18

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1878phae.proj.1397R

χ Serpentis $18^h\ 15^m\ 0^s\ -2^\circ\ 55'\ 43''$

1878				E	F	G	H	
Aug	27	20	1	49.8	55.8	18.2	10.2	R
	27							
Sept.	10	20	1	45.0	51.2	14.4	4.9	Lost A_{+2}
	10	20	0	41.9	47.6	10.5	2.0	
	12	20	2	7.1	13.9	37.1	27.9	
	12	20	0	38.6	45.8	9.0	59.9	
	14	20	2	10.2	17.1	42.2	28.8	
	14	20	0	41.9	48.3	13.1	0.4	
	15	20	2	7.8	15.2	38.2	27.1	
	15	20	0	48.8	56.9	19.2	8.7	
	16	20	1	49.7	56.2	18.5	8.4	
	16	20	0	46.4	53.0	15.9	5.8	
	18	20	2	13.5	18.9	42.8	33.1	
	18	20	0	46.6	52.7	16.6	7.1	

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1878phae.proj:1397R

109 Herculis ^{h}18 ^{m}18 ^{s}29 +21° 42′ 54″

1878

			E	F	G	H	
	′	′	″	″	″	″	
July 23	40	3	29.1	34.7	52.4	48.5	Lost A_{+2}
23	40	2	44.0	49.6	6.9	5.2	
28	40	4	9.1	12.9	31.6	27.2	Lost 1st A_{-2} 1
28							
Aug 12	40	2	47.3	51.7	11.7	6.8	Lost R
12							
13	40	3	27.4	31.9	51.2	48.1	R Lost 1st w.
Sept 6	40	2	45.4	50.4	9.9	4.2	A_{+} A_{-1}
6							
7	40	3	51.7	59.3	16.4	11.1	
7							
8	40	2	18.9	25.7	44.4	38.8	
8							
12	40	3	59.7	4.4	24.2	18.0	
12							
13	~~40~~	~~3~~	~~43.7~~	~~48.2~~	~~9.5~~	~~2.1~~	
13							
14	40	3	58.3	2.7	22.5	14.1	
14	40	2	46.3	38.8	59.3	51.1	
15	40	3	53.6	59.9	17.8	10.9	
15	40	2	34.0	41.1	59.2	52.7	
16	40	4	0.6	5.5	23.9	18.6	Lost 1st w. wire
16	40	2	30.1	35.8	53.8	48.2	
18	40	4	3.6	7.2	26.7	20.7	
18	40	2	43.8	48.8	7.8	2.7	

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1878mae.proj.1397R

δ Lyrae $18^h\ 32^m\ 48^s$ $+38°\ 40'\ 16''$

1878

			E	F	G	H	
	'	'	"	"	"	"	
July 26	45	2	2.9	5.1	26.8	21.3	
28	45	0	45.0	47.4	7.3	4.9	
Aug 12	45	1	54.9	56.4	17.5	14.2	
13	45	0	56.6	59.1	20.5	17.1	R lost A_{+2} A_{+1}
13							
Aug 14	45	1	38.9	40.8	1.3	58.2	R
14							
19	45	1	53.2	54.3	16.8	12.5	R
19							
Aug 20	45	1	46.3	48.7	9.9	7.1	R
20							
25	45	1	55.0	0.6	19.4	16.2	R
25							
26	45	1	50.8	53.9	14.3	10.8	R
26							
29	45	1	29.0	31.4	51.8	48.3	lost A_{+2}
29							
Sept 1	45	1	48.1	50.2	12.7	8.4	R
1							
6	45	1	56.8	59.9	21.7	18.1	
7	45	1	59.2	4.4	23.5	17.2	
8	45	1	52.4	55.3	17.1	10.2	
17	45	1	51.4	54.2	15.9	9.5	
17	45	0	40.7	44.6	4.0	59.7	

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1878phae.proj:1397R

51 H. Cephei LL. $6^h\ 42^m\ 45^s$ $+92^\circ\ 46'\ 7''$

1878

Aug. 20

26

27

29

Sept. 2

10

12

14

15

16

13 J. F. M. obs.

17

18

19

23

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1878phae.proj.1397R

β Lyrae $18^h\ 45^m\ 34^s$ $+33°\ 13'\ 19''$

1878			ε	Z	G	Th	
Aug 19	10	3	49.5	51.2	13.8	8.0	R
19							
22	10	3	1.9	5.2	26.5	21.7	R lost A_{+2}
22							
Sept 7	10	2	25.2	40.3	0.8	53.6	1 stroke for δ Lost A_{+2} A_{+1} (Clouds)
7							
8	10	2	37.2	40.5	2.3	55.1	A
8							
16	10	3	4.6	7.3	28.8	22.1	
16	10	2	7.2	11.2	32.0	25.8	
17	10	3	20.9	24.1	46.4	39.2	Lost 1st. 2 wires
17	10	2	21.3	24.7	46.3	39.8	
18	10	3	38.8	41.4	3.7	56.7	Lost 1st wire
18	10	2	18.9	20.7	44.3	37.9	
22	10	3	43.7	46.1	9.1	0.9	
22	10	2	36.0	40.7	1.0	54.4	

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1878phae.proj.1397R

ι Lyrae $19^h\ 2^m\ 57^s$ ~~+27° 42′ 17″~~ 25-53

1878

			G	H	G	H	
Aug 25	30	2	30.7	35.4	54.8	52.3	R
25							
26	30	2	22.8	25.8	56.9	43.1	R
26							
Aug 27	30	2	34.2	36.2	57.0	54.0	R
27							
29	30	2	30.7	33.2	53.9	50.8	R
29							
Sept 1	30	2	25.8	27.9	50.8	46.4	R
1							
2	30	2	31.0	32.8	56.2	50.2	
2	30	1	7.9	9.1	32.8	27.6	
~~7~~	~~30~~	~~2~~	~~30.1~~	~~36.2~~	~~54.8~~	~~50.1~~	
9	30	2	30.7	35.5	55.0	50.6	
9	30	1	13.4	17.3	37.7	32.9	
10	30	2	31.8	35.2	55.9	50.2	
10	30	1	27.2	30.6	51.1	47.3	
17	30	2	30.3	34.1	54.6	49.3	
17	30	1	20.2	23.7	44.5	40.6	
18	30	2	28.3	31.3	53.2	46.7	
18	30	1	26.2	29.8	51.8	46.3	
19	30	2	28.5	31.8	53.2	47.1	
19	30	1	31.3	24.7	46.6	40.7	
22	30	2	30.4	35.3	55.6	48.5	
22	30	2	3.3	8.7	28.4	23.2	
23	30	2	27.9	31.8	51.5	46.7	
23	30	1	59.3	3.6	22.8	19.3	
28	30	2	27.1	30.9	49.9	45.2	
28	30	1	4.4	7.9	26.8	24.1	

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1878phae.proj.1397R

1 Cygni	h 19	m 14	s 17	+53°	8′	37″		
1878				E	F	G	H	
Aug 13	15	2	39.9	39.7	8 52.2	5 51.0	R A+2 A+1	
13								
Aug 14	—	—	29.4	30.2	50.2	46.2	lost 1+2 m.	
14								
aug 17	~~15~~	~~3~~	~~36.7~~	~~37.1~~	~~58.1~~	~~54.1~~	R	
" 17								
" 19	15	3	30.8	31.6	51.8	46.8	R	Lost 1 et wire
" 19								
aug 20	15	2	53.4	54.6	13.9	11.3	R	lost A_{+2} + A_{+1} 12
20								
25	15	3	43.8	47.0	4.4	1.4	Lost A_{-2}	53.9
25								
26	—	—	42.0	42.7	1.9	58.4	R	1.4
26	~~15~~	~~4~~						
27	15	4	43.8	44.5	3.7	0.1	R	39.9
27								
aug 29	15	~~3~~	36.8	37.2	56.4	52.6		39.2
29								
Sept 1	15	3	40.2	40.3	1.2	58.1		15 ~~45~~ Ref. 2 ~~2~~ 8. Lost A_{-2}
1								
2	15	3	42.1	41.1	3.2	58.5		
2	15	2	18.2	19.7	41.1	35.6		Sept 19
9	15	3	44.9	46.8	5.2	1.6		
9	15	2	35.5	37.8	57.1	51.8		
14	15	3	1.2	1.5	23.1	14.0	Lost A_{+1}. Perhaps lost	
14	15	2	16.1	17.9	38.9	31.8	1 wire of A	
15	15	3	32.3	35.9	54.8	47.8		
15	15	2	25.2	28.8	48.4	41.3		
16	15	3	31.4	34.1	53.6	46.4		
16	15	2	25.1	28.2	47.8	40.7		

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1878phae.proj:1397R

β Cygni $19^h\ 25^m\ 49^s$ $+27°\ 42'\ 17''$

1878

			E	F	G	H				
Aug 13	40	4	16.8	19.6	40.5	36.3	R	lost-last m		
Aug 14	40	4	46.2	48.1	7.7	4.0				
Aug 17	~~40~~	~~3~~	~~22.9~~	~~25.3~~	~~46.3~~	~~41.0~~	R	~~Reg. 1st~~		
17										
20	40	4	8.3	11.6	30.4	27.1	R	lost A_{+2} A_{+1} 1 2 3	54.6	29.3
20										
26	40	3	17.0	20.2	39.2	34.7		Rep 1st d	2d	35.3
26										
Aug 27	40	4	27.2	31.2	49.7	45.4	R		41.4	14.7
27										
Aug 29	40	4	40.3	43.7	2.8	58.3	R		38.9	12.2
29										
Aug 31	40	4	41.4	43.8	2.8	0.2			4	3
31										
Sept 1	40	3	48.2	49.7	11.3	6.3	R		Sept 19 40	40
1										
2	40	4	44.3	45.8	7.2	1.9		A_{+2} A_{+1}		
2										
9	40	4	40.7	43.8	3.1	57.8				
9	40	3	16.3	19.8	39.3	34.7				
12	40	4	39.1	42.3	3.2	56.8				
12	40	3	26.6	30.0	50.9	45.5				
14	40	4	41.1	44.2	5.0	57.1				
14	40	3	24.6	28.3	49.3	40.1				
15	40	4	41.1	45.6	4.2	57.9				
15	40	3	13.8	18.8	37.0	31.1				
16	40	4	40.9	44.1	2.9	57.9				
16	40	3	10.8	15.8	33.3	28.0				

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1878phae.proj.1397R

γ Aquilae h 19 m 40 s 28 +10° 19′ 3″

1878

			E		H		G		H		
Aug 14	5	1	36.2		40.7		3.7		57.7	R	
14											
~~Aug 17~~											
19	5	2	12.1		17.2		39.2		21.8	R	Lost the last 2 wires
19											
Aug 20	5	2	37.1		43.3		2.9		58.1	R	
20											
Aug 22	5	2	21.0		27.8		48.4		42.3	R	
22											
25	5	2	29.1		37.0		57.0		50.3	R	
25											
26	5	2	35.9		42.1		2.6		56.1	R lost A+2	R
26											
Aug 31	5	2	31.4		36.8		57.9		52.4	R	
31											
Sept 1	5	1	12.7		17.3		41.2		34.0	R lost tow	miss'd H A
1											
15	5	2	34.6		41.4		2.0		52.9		
15	5	1	4.0		11.1		32.1		23.4		
16	5	2	32.6		39.6		0.4		50.9		
16	5	1	7.9		14.6		34.3		26.8		
17	5	2	33.1		39.7		0.1		52.1		
17	5	1	11.8		17.7		39.3		31.8		
18	5	2	33.8		39.0		0.5		52.9		
18	5	1	4.9		9.1		31.8		23.9		
19	5	2	31.4		37.2		59.2		50.2		
19	5	1	12.9		19.2		40.2		31.0		
22	5	2	36.5		43.7		3.2		54.4		
22	5	1	8.9		16.1		35.3		27.6		

2 more

54.2 47.2 27.2 21.8 56.2 57.9 26.7 24.9 34.6 7.9 43.4 16.3 27.6 1.6 37.2 10.5

5 2 5 1 5 2 5 1

Sept. 28 26 Nov. 5

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1878phae.proj.1397R

α Aquilae $19^h\ 44^m\ 50^s\ +8°\ 32'\ 51''$

1878

			E	F	G	H		
Aug 19	50′	3′	46.8″	50.8″	12.3″	2.9″	R A_{+2}	A_{+1} 1 2
19								
Aug 20	50	3	48.9	54.3	14.4	7.3	R	
20								
Aug 22	50	3	43.5	50.1	9.5	2.2	R	
22								
26	50	3	47.7	52.5	13.4	5.0	R	
26								
Aug 31	50	3	3.8	8.1	28.4	21.9	R lost 1 st two w	
31								
Sept. 1	50	2	25.2	30.2	52.3	44.9	R A_{+1} 345	A_{+2} 34
1								
12	50	3	36.3	42.3	4.1	54.1		
12	50	2	18.7	25.2	47.2	38.5		
14	50	3	42.0	47.6	9.5	56.7		
14	50	2	21.9	28.5	49.8	38.1		
15	50	3	40.8	48.3	7.8	57.7		
15	50	2	19.1	27.1	46.2	36.6		
16	50	3	43.0	50.4	9.1	0.8		
16	50	2	12.8	19.7	39.7	30.9		
17	50	3	43.9	50.6	10.5	0.9		
17	50	2	24.8	32.2	51.4	43.1		
18	50	3	45.9	50.5	11.9	2.1		
18	50	2	15.2	21.2	42.7	33.2		
19	50	3	43.2	49.1	9.1	0.6		
19	50	2	22.3	28.8	49.8	39.8		
22	50	3	39.9	47.4	6.9	56.4		
22	50	2	16.1	24.3	43.2	33.7		
23	50	3	40.5	47.4	6.2	58.5		
23	50	2	14.2	21.6	39.9	32.3		

0.1 84.8
9.1 43.1
48.1 22.0
42.9 16.1
3 2
50 50
Sept. 25 25

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1878phae.proj.1397R

Ursa. Min. $19^h\ 46^m\ 14^s$ $+88°\ 56'\ 18''$ β

1878

Aug 22
25
26
31
Sept. 9
22
23
25
28
30
Oct. 2
3
8
14
16
21 J. F. M. obs.
22 J. F. M obs.
Nov. 2
3
4
5

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1878phae.proj.1397R

β Aquilae $19^h\ 49^m\ 19^s$ $+6°\ 6'\ 13''$

1878			E	Z	G	H	
Aug. 19	20	0	22.0"	30.0"	50.0"	42.6"	R
19							
22	20	0	14.8	23.7	43.2	36.2	R
22							
Oct. 21	20	0	5.7	14.1	34.7	26.7	m. 3 strokes for δ
21							
22	15	4	44.6	52.6	12.1	4.4	m.
22							
Nov. 2	20	0	8.1	17.1	33.2	27.2	
2	15	3	56.0	5.0	19.0	15.9	
3	20	0	22.4	32.2	47.8	40.2	
3	15	4	4.3	14.2	28.8	23.8	
5	20	0	26.8	35.2	46.9	41.6	
5	15	3	49.1	57.0	6.2	3.8	
6	20	0	18.6	26.1	36.7	33.1	
6	15	3	58.4	6.6	16.3	13.6	

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1878nae.proj.1397R

β 1 o^2 Cygni $20^h\ 9^m\ 48^s$ $+46°\ 22'\ 18''$

1878			E	F	G	H	
Aug 26	0	4	53.6	54.4	14.4	9.7	R lost A_{+2}
26							
Aug 29	0	4	54.3	55.2	15.9	11.1	R
29							
Aug 31	0	4	25.3	26.2	47.1	41.8	R lost A_{-2} !
31							
Sept. 2	0	4	45.2	45.4	7.7	1.6	pr. # V8.0 mag.
2	0	3	31.4	31.6	54.0	49.8	Comp follo. 1^s 2$'$ below
23	0	4	27.6	31.1	49.4	43.5	Lost A
23	0	3	34.6	37.2	54.7	50.7	o^{2+2} Cygni
25	0	4	45.9	47.1	8.1	1.2	44.7 4.5 5.8
25	0	3	27.6	30.0	50.2	44.2	
28	0	4	48.9	51.2	8.9	3.2	49.6 50.5 5.1
28	0	3	55.2	58.8	16.2	11.8	
30	0	4	50.9	53.0	11.8	5.9	29.1 29.9 58.1
30	0	3	30.9	33.5	32.1	47.3	
Oct. 1	0	4	48.3	50.9	10.4	5.0	26.9 27.2 55.7
1	0	3	42.6	44.8	4.2	59.4	
2	0	4	50.0	50.5	11.6	6.2	Lost 1st 2 wires
2	0	3	33.6	34.7	55.2	50.4	
3	0	4	48.7	49.3	10.1	3.9	
3	0	3	27.6	29.7	50.0	43.8	
8	0	4	45.9	48.1	7.0	1.9	Oct. 16 = 0 4 16 Lost 1st wire
8	0	3	49.5	51.9	11.1	5.7	
10	0	4	44.6	49.1	7.5	1.9	
10	0	3	21.6	26.2	45.0	39.8	
14	0	4	45.1	48.1	6.4	2.1	
14	0	3	21.2	23.8	42.6	39.0	

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1878phae.proj.1397R

β Delphini $20^h\ 31^m\ 49^s\ +14^\circ\ 10'\ 18''$

1878			E	F	G	H	
Sept. 9	15	1	22.1	29.4	50.6	40.1	
9	10	4	47.2	53.6	15.4	5.9	
14	15	1	15.7	21.7	44.9	31.2	
14	15	0	17.6	24.9	47.2	34.5	
16	15	1	18.6	21.7	46.7	36.3	
16							
17	15	1	12.1	18.6	39.8	29.8	Lost A_{-2} 1
17							
18	15	1	19.9	26.3	48.7	38.2	
18	10	4	49.6	55.4	17.4	7.1	
19	15	1	13.1	20.6	42.8	30.7	
19	15	0	8.8	15.2	36.0	26.9	
23	15	1	12.4	19.7	38.9	29.0	Lost 1st F. wire
23	10	4	48.2	55.8	14.8	4.5	
25	15	1	15.8	21.4	43.9	33.3	
25	10	4	50.2	55.6	16.8	7.0	
28	15	1	14.8	22.9	41.4	31.7	38.8 11.2 35.9 0.5
28	10	4	49.7	57.0	15.2	7.5	
30	15	1	14.1	21.2	41.2	31.2	
30	10	4	54.2	0.2	20.8	10.7	46.1 20.6 44.2 5.8
Oct. 1	15	1	13.9	20.4	41.3	32.1	
1	10	4	55.7	3.2	22.7	14.8	
2	15	0	57.4	3.1	25.4	15.6	25.8 59.1 30.1 54.1
2	10	4	53.4	0.0	21.8	13.0	
3	15	1	22.9	29.0	52.1	41.2	16.3 52.9 21.2 46.2
3	10	4	47.6	53.1	15.8	5.8	
8	15	1	20.2	28.6	48.5	36.9	15 1 15 1
8	10	4	54.5	2.2	21.2	12.7	10 4 10 4
							Oct 16 Nov 4

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1878phae.proj.1397R

8 Cygni	$20^h\ 37^m\ 16^s$	$+44^\circ\ 50'\ 42''$			
1878		E	F	G	H.
		"	"		
Sept. 2	35 1	15.6	16.1	40.7	33.1
2	35 0	4.2	4.5	28.7	22.2
9	35 1	12.9	15.1	35.9	29.8
9	35 0	7.1	10.6	30.3	26.2
14	35 0	33.9	36.3	59.1	50.2
14	30 4	52.0	53.7	15.0	7.1
23	35 1	21.6	25.7	45.2	38.4
23	35 0	12.4	16.4	36.3	28.3
30	35 1	22.5	25.9	46.1	38.7
30					
Oct. 1	35 1	23.1	26.6	48.4	41.9
1	35 0	3.6	7.2	27.8	23.0
2	35 1	24.1	26.5	48.7	41.6
2	35 0	14.4	16.4	38.9	31.8
3	35 1	23.9	25.9	49.1	40.9
3	35 0	1.9	4.1	26.3	19.0
8	35 1	24.1	27.9	47.8	41.6
8	35 0	17.9	22.1	42.4	35.9
10	35 1	20.2	24.9	45.2	37.1
16	35 0	15.8	21.1	40.5	33.9
14	35 1	21.5	25.9	46.4	39.1
14	35 0	2.3	5.9	25.4	21.2
16	35 1	21.6	25.1	47.9	40.3
16	30 4	56.9	59.9	19.4	14.8
21	30 4	53.6	56.8	16.1	11.1
21					
22	35 1	16.4	20.2	40.5	33.2
Nov. 4	35 1	9.6	14.0	27.5	23.5
4	35 0	13.2	17.7	30.0	28.8

A, + A
-1 -2

A A + A
5 strokes for δ − 2

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ν Cygni $20^h\ 52^m\ 37^s$ $+40°\ 41'\ 55''$

1878

			E	F	G	H	
			"	"	"	"	
Sept. 2	45	0	16.1	17.9	42.1	34.9	
2	40	4	1.6	2.7	25.8	18.4	
9	45	0	4.1	8.0	28.4	22.9	
9	40	3	49.1	52.3	13.2	8.4	
12	45	0	5.2	8.4	30.8	22.8	
12	40	3	43.8	46.0	8.7	2.3	
14	45	0	6.2	8.7	31.3	22.4	
14	40	3	42.9	45.4	7.3	58.8	
15	45	0	8.7	12.4	32.6	25.7	
15	40	3	47.2	50.8	10.3	4.0	
17	45	0	8.8	12.4	33.5	26.8	
17	40	3	45.2	48.3	8.2	2.0	
18	40	4	37.1	39.2	0.8	53.1	False stroke among the
18	40	3	44.1	46.2	7.2	1.2	wires of A. Lost 1st 2 wires
19	45	0	8.6	12.2	33.7	26.5	
19	40	3	47.1	49.9	10.9	4.4	
23	45	0	4.6	9.1	28.1	20.9	
23	40	4	0.0	4.9	23.4	16.9	
25	45	0	10.7	13.7	35.4	28.2	
25	40	3	40.3	43.2	4.0	58.1	
Oct. 1	45	0	7.5	10.3	32.0	25.0	
1	40	3	39.4	43.2	2.9	59.8	
2	45	0	4.9	8.0	29.7	22.7	
2	40	3	49.9	50.8	13.0	5.8	
3	45	0	6.3	9.3	31.7	23.2	
3	40	3	45.8	48.3	10.2	3.3	
10	45	0	1.4	6.2	26.2	18.6	
10	40	3	38.8	43.7	1.9	56.7	

Oct. 14

14	45	0	7.1	25.9
14	40	3	40.0	58.3
	45	0		31.9
	40	3		3.2
			14.9	
			43.7	

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61 Cygni	21h	7m	45s	+29°	43′	39″			
1878				E	N	S	W		
Sept. 9	40	3	16.8	21.6	39.5	34.4			
9	40	1	57.3	2.6	20.7	15.1			
14	40	3	15.2	19.8	39.9	30.6			
14	40	1	46.6	51.3	11.9	30.7			
19	40	3	13.6	18.2	37.3	30.8			
19	40	1	50.3	54.8	15.0	7.8			
23	40	3	9.4	15.5	31.6	26.8			
23	40	1	47.8	53.8	10.1	3.9			
25	40	3	16.0	20.4	39.8	33.1			
25	40	2	11.0	15.2	34.3	28.0			
28	40	3	9.3	15.0	30.6	25.4	23.0	6.6	
28	40	1	41.9	48.2	3.6	58.9			
30	40	3	12.0	17.2	34.2	29.1	25.6	9.7	
30	40	1	42.0	46.9	4.2	59.2			
Oct 1	40	3	9.6	14.2	32.7	27.2			
1	40	1	58.9	3.3	22.1	15.9	16.8	59.6	
2	40	3	11.2	15.8	34.2	28.5			
2	40	1	46.0	50.8	10.1	3.2	11.8	55.2	
3	40	3	6.6	10.4	30.4	23.9			
3	40	2	2.9	7.9	27.2	20.5	3	1	
10	40	3	6.0	11.3	26.8	22.9			
10	40	1	46.2	53.1	10.1	4.3			
14	40	3	6.2	11.9	28.5	23.9	40	40	
14	40	1	39.4	43.4	2.4	57.9			
15	40	3	11.1	16.2	33.9	29.5	Nov. 6	6	
15	40	2	4.8	9.6	27.2	22.9			
16	40	3	9.6	14.1	33.1	26.9			
16	40	1	43.3	48.8	7.9	2.7			
29	40	3	10.2	15.6	31.0	27.4			
29	40	2	4.6	10.2	25.6	21.8			

Lost 1st wire

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1878phae.proj.1397R

T Cygni 21h 9m 55s +37° 31' 30"

1878

			E	F	G	H	
Sept. 9	55	0	21.7	26.1	47.1	40.8	
9	50	4	3.3	6.7	26.3	21.7	
14	50	4	57.5	59.9	20.9	13.2	
14	50	3	51.6	54.0	15.9	8.7	
19	50	4	45.8	49.1	10.5	3.6	~~Cat~~ A +1 2+c.
19	50	3	58.5	1.7	22.2	15.8	
23	55	0	25.5	31.1	50.5	44.1	24.7 21.4 36.9 13.7
23	50	4	0.6	5.8	23.1	18.6	
28	55	0	25.1	30.7	48.9	43.9	26.5 22.9 38.5 15.9
28	50	4	1.9	6.1	24.3	19.5	
30	55	0	25.0	29.9	50.4	45.2	16.2 12.1 26.9 4.7
30	50	4	26.8	30.8	49.7	44.9	
Oct. 1	55	0	21.0	24.4	45.5	39.8	12.4 9.5 23.2 1.8
1	50	4	7.2	10.1	30.2	26.2	
2	55	0	25.1	29.0	51.2	44.2	0 4 0 4
2	50	4	29.9	33.3	55.0	49.0	
3	55	0	23.8	27.1	49.9	42.3	55 50 55 50
3	50	4	8.5	11.8	34.1	27.4	Nov. 5 5 6 6
10	55	0	4.7	10.1	29.1	23.2	
10	50	4	1.7	6.1	24.9	21.1	
14	55	0	19.1	24.3	44.3	38.5	Rej. 27° δ
14							
15	55	0	23.2	28.1	48.9	43.1	
15	50	3	57.4	0.7	21.2	15.5	
21	55	0	24.9	29.1	49.2	43.1	3 strokes for δ 17.7m
22	55	0	21.4	27.3	46.7	40.6	27.7m
29	55	0	19.9	25.4	43.6	37.8	
29	50	3	55.3	0.0	17.0	13.3	

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1878cmae.proj.1397R

2 Cephei	^{h} 21	^{m} 27	^{s} 5	+70°	i	30″		
1878				E	F	G	H.	
				″	″	″	″	
Sept. 9	25	1		1.8	2.3	22.8	17.2	
9	25	0		15.3	16.1	35.7	33.3	
19	25	0		55.8	56.1	17.1	11.1	2 strokes for last wire of A.
19	25	0		14.2	14.8	35.7	31.2	
23	25	0		20.9	22.4	40.9	36.6	
23	20	4		55.3	56.4	13.6	11.3	
25	25	0		45.4	44.9	6.0	1.1	3 strokes for 1st δ
25								Lost A −1
28	25	0		47.9	49.5	7.8	3.5	Lost A −1
28								
30	25	0		58.4	59.3	18.9	14.3	
30	25	0		20.8	21.7	41.5	36.8	
Oct. 1	25	0		54.4	54.0	16.0	10.7	
1	25	0		10.1	10.4	31.1	26.7	
2	25	0		22.1	22.5	43.2	39.8	
2	20	4		49.6	49.2	9.0	6.2	
3	25	0		42.6	42.0	4.5	59.2	
3	20	4		55.3	54.8	15.9	11.4	
10	25	0		22.9	24.6	44.1	38.8	
10	20	4		45.6	47.2	4.8	1.7	
14	25	0		47.9	49.2	9.0	4.4	Lost A −1
14								
15	25	0		46.7	47.2	7.4	2.9	6 strokes for 1st δ
15	25	0		13.6	15.1	34.9	30.9	
16	25	0		45.9	46.2	7.6	2.9	Lost A −1
16	25	0		13.5	14.0	35.9	30.7	
21	25	0		57.6	57.2	17.9	13.1	5 strokes for δ A.F.M.
22	25	0		49.7	51.1	11.1	6.1	A.F.M.
Nov. 2	25	0		39.1	41.2	56.9	54.9	
3	25	0		10.6	12.4	28.7	26.6	

Nov. 3 25 0 39.3 40.6 56.1 53.6
3 20 4 53.5 57.3 10.2 9.6

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1878phae.proj.1397R

ε Pegasi $21^h\ 38^m\ 12^s$ $+9^\circ\ 19'\ 0''$

1878

			E	F	G	H	
	′	′	″	″	″	″	
Sept. 25	5	2	24.8	30.2	51.9	42.2	
25	5	1	56.7	3.1	23.3	15.3	
28	5	2	22.3	30.6	47.5	40.8	
28	5	0	59.0	7.3	24.0	16.7	
30	5	2	29.4	36.9	55.3	47.7	
30	5	1	1.4	8.0	26.9	19.5	
Oct. 1	5	2	26.0	32.9	53.1	44.7	
1	5	1	3.2	9.9	30.0	23.3	
2	5	2	28.9	36.0	55.9	47.8	
2	5	1	6.7	13.0	32.9	24.9	
3	5	2	21.6	28.6	49.9	39.8	
3	5	1	3.7	9.6	30.5	20.0	
10	5	2	17.8	26.3	45.1	35.8	
10	5	0	54.7	2.1	20.1	13.0	
14	5	2	24.0	31.9	50.9	42.1	
14	5	0	58.5	6.2	24.7	17.2	
15	5	2	28.8	36.8	55.9	48.6	Lost A, 243 −1
15	5	1	0.1	7.7	26.6	19.4	
16	5	2	25.4	32.8	53.2	44.5	
16	5	1	1.6	8.2	28.4	21.3	
21	5	2	3.1	10.1	29.8	21.5	3 strokes for δ. φ 7.2. φ 7.2.
22	5	2	21.6	30.2	48.9	40.2	
Nov. 3	5	2	28.1	36.3	50.2	43.3	
3	5	1	2.2	9.8	24.0	19.1	
5	5	2	31.6	38.9	49.9	43.2	
5	5	0	59.3	6.2	17.3	12.4	
10	5	2	26.5	34.4	46.5	39.6	
10	5	1	0.9	8.2	19.8	15.0	

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1878phae.proj.1397R

Aquarii $21^h\ 59^m\ 31^s\ -0°\ 54'\ 42''$

1878

			E	F	G	H	
Sept. 25	20	0	50.8	57.1	19.9	9.1	
25	15	4	32.7	39.8	0.2	52.2	
28	20	0	45.0	53.1	12.9	3.3	
28	15	4	26.6	34.8	52.7	44.8	
30	20	0	51.5	58.1	20.3	10.2	
30	15	4	23.2	30.3	50.7	42.0	
Oct. 21	20	0	39.6	46.6	8.7	58.4	3 strokes for d. f. 7.m
21							
22	20	0	41.3	49.3	11.1	59.3	d. f. m.
22							
Nov. 2	20	0	26.5	34.9	52.8	45.1	Lost 1st wire
2	15	4	20.8	28.8	46.0	39.8	
3	20	0	50.1	57.3	14.5	5.7	
3	15	4	23.9	32.2	46.9	41.1	
4	20	0	42.2	49.8	3.3	56.3	
4	15	4	24.0	32.7	43.9	36.2	
5	20	0	59.4	6.3	20.9	12.5	
5	15	4	28.2	35.1	47.2	41.8	
10	20	0	56.7	3.1	17.7	10.1	
10	15	4	30.6	38.2	50.1	45.1	
13	20	0	45.6	54.3	10.0	4.7	
14	20	0	52.1	2.3	15.5	8.8	
30	15	4	19.7	27.2	40.2	37.0	
30							

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1878phae.proj.1397R

γ Aquarii $22^h\ 15^m\ 21^s$ $-2°\ 1'\ 17''$

1878			E	F	G	H
Oct. 3	25	1	14".0	20".9	44".6	32".1
3	20	4	50.9	58.3	20.3	9.2
10	25	1	9.9	18.9	38.6	28.4
10	20	4	39.2	48.6	6.8	57.3
14	25	1	2.3	11.1	31.3	21.9
14	20	4	38.7	46.6	5.8	57.4
15	25	1	11.8	19.9	41.9	32.1
15	20	4	42.9	51.2	10.8	2.6
29	25	1	11.7	20.2	39.1	29.9
29	20	4	38.2	47.2	5.3	56.5
Nov. 2	25	1	5.9	14.4	31.8	23.5
2	20	4	45.1	53.1	9.2	2.4
3	25	1	10.7	19.2	34.8	26.7
3	20	4	46.0	55.0	9.8	2.0
4	25	1	13.5	21.8	34.4	26.8
4	20	4	44.9	53.2	5.3	57.6
10	25	1	19.1	27.2	41.4	33.9
10	20	4	47.8	56.1	9.4	3.9
13	25	1	32	11.8	26.6	20.2
14	20	4	40.9	49.9	1.9	55.6
30	25	1	15.6	24.0	36.5	31.6

Rej. 2nd δ

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1878phae.proj.1397R

λ Pegasi $22^h\ 37^m\ 16^s$ $+29°\ 35'\ 1''$

1878

			E	F	G	H				
	'	'	"	"	"	"				
Oct. 1	50	1	49.8	53.8	12.6	8.9				
1	50	0	25.8	31.9	50.4	45.0				
16	50	1	44.9	49.1	8.4	3.1				
16	50	0	21.5	27.1	45.9	41.3				
29	50	1	5.0	10.9	26.2	21.6				
29	50	0	14.9	21.3	36.1	33.4				
Nov. 2	50	1	44.3	49.5	4.0	0.9				
2	50	0	19.3	25.8	39.7	38.2				
4	~~50~~	~~1~~	~~40.2~~	~~47.1~~	46.4	44.1				
	50	1	31.1	37.3						
4	50	0	17.0	22.1	31.1	30.2				
5	50	1	50.0	54.7	3.2	1.9				
5	50	0	18.7	24.0	31.8	31.4				
6	50	1	17.9	23.0	31.3	29.6				
6	50	0	15.2	19.9	29.2	28.4				
10	50	1	46.5	51.4	1.4	0.9				
10	50	0	17.8	23.2	33.2	32.8				
12	50	1	40.5	45.9	0.3	59.2				
12	50	0	36.0	41.8	55.4	54.6				
13	50	1	42.5	47.5	58.9	56.4				
13	50	0	14.4	20.2	31.3	30.5				
26	50	1	42.6	47.3	57.2	55.9				
26	50	0	15.2	20.8	30.2	29.1				
30	50	0	50.1	55.2	5.8	4.4				
30	50	0	12.6	18.1	27.2	28.1				
Dec 1	50	1	44.8	48.1	58.1	57.9				
1	50	0	24.7	29.8	37.7	38.9				
7	50	1	45.4	49.2	57.6	54.1				
7	50	0	20.2	24.7	31.8	32.2				

Lost A +2 +1 + mid. wire of A

Dec. 12

1	50	43.8	48.6	55.2	
0	50	22.3	28.2	37.3	
1	50	27.9	33.1	39.1	
14	50				

Lost A +2 +A +1

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1878phae.proj.1397R

λ Pegasi $22^h\ 40^m\ 39^s$ $+22°\ 55'\ 16''$

1878			E	F	G	H
			"	"	"	"
Oct. 1	30	1	9.1	14.9	32.0	28.3
1	30	0	10.3	15.7	32.8	29.8
Nov. 3	30	1	1.9	8.3	20.1	18.0
3	25	4	37.2	43.4	54.0	53.1
10	30	1	2.9	8.9	19.2	17.1
10	25	4	58.6	2.3	13.1	13.1
(12	30	1	16.6	23.7	36.2	36.0
12	25	4	46.0	50.7	3.9	3.2)
13	30	1	8.6	15.4	25.4	25.7
13	25	4	46.3	53.1	3.9	1.8
14	25	4	54.7	1.9	10.4	7.9
24	30	0	55.5	1.3	11.2	11.4
24	25	4	41.3	47.4	56.9	57.7
26	30	0	46.6	53.1	1.9	1.9
26						
Dec 1	30	1	15.6	21.9	30.6	29.8
7	30	1	14.4	20.4	27.6	25.8
8	25	4	46.2	50.1	56.9	55.9
8	f.7.m.obs.					
12	30	1	15.1	20.2	28.9	28.9
12						
14	30	1	14.3	20.9	28.6	27.4
14						
16	30	1	16.5	22.1	30.2	29.1
16						

Rej. A +1

Lost 1st " 3 wires

Rej. 1st & 8. Got two wires in A +1 too many!

Lost 3rd wire of A +1

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1878phae.proj.1397R

α

Cephei $22^h\ 45^m\ 20^s$ $+65^\circ\ 33'\ 32''$

1878	′	′	E ″	F ″	G ″	H ″	
Oct. 1	50	3	50.1	50.2	8.9	5.6	Ref. 2^{m}_{m} δ, use 3^{m}_{m}
1	50	3	48.2	47.5	6,4	3.9	
10	50	3	48.3	49.1	7.3	4.1	
10	50	3	7.3	8.3	26.8	23.6	
14	50	3	3.7	5.9	23.6	21.3	Lost A_{+1}
14	50	2	43.4	44.9	1.3	1.3	
15	50	2	56.9	56.8	16.5	13.6	Lost A_{+1}
15	50	2	40.4	40.8	58.6	57.5	
16	50	3	41.9	42.3	1.0	58.6	False stroke among 1st δs
16	50	3	14.2	14.6	32.8	31.3	
29	50	3	28.9	30.1	46.1	43.9	
29	50	2	35.9	37.9	53.1	51.2	
Nov. 4	50	3	19.2	19.3	29.7	28.8	A_{+1} 4, 5, 6, 7, 8, 9 of A
4							
5	50	3	44.9	44.6	54.2	55.6	
5	50	2	42.7	41.3	51.2	52.8	
24	50	3	34.9	34.9	46.2	46.7	
24	50	2	33.9	34.2	45.3	46.0	
26	50	3	39.2	39.1	50.1	50.8	
26	50	2	42.6	43.0	52.5	54.0	
Dec. 6	50	2	39.0	37.2	47.4	47.9	f. 7. m. obs.
6							
8	50	2	36.5	34.4	41.3	42.2	f. 7. m. obs. 25 mins Lost A_{+2} A_{+1}
18	50	3	16.4	16.5	24.4	25.9	
18	50	2	42.8	41.4	50.2	50.1	

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1878phae.proj.1397R

α Pegasi $22^h\ 58^m\ 41^s$ $+14°\ 32'\ 58''$

1878			E	F	G	H	
Oct. 15	5'0	3'	31".0	37".7	58".2	49".2	
15	50	1	59.7	6.5	25.9	18.4	
16	50	3	27.1	33.8	54.1	45.2	
16	50	2	10.8	17.1	39.0	31.0	
Nov. 3	50	3	28.1	35.5	50.5	43.7	
3	50	2	2.2	7.9	21.9	15.2	
~~21~~	~~C.P.~~						
24	50	3	31.1	38.6	51.2	46.5	
24	50	2	5.8	13.2	25.2	18.9	
26	50	3	34.4	41.4	53.6	47.7	
26	50	2	4.0	11.5	22.9	17.8	
Dec 1	50	3	34.5	40.2	52.2	46.1	
1	50	2	8.0	9.1	20.7	16.9	
6	50	3	31.8	37.5	48.8	42.9	f.f. m obs.
6							
7	50	3	39.9	45.9	56.4	49.2	
8	50	3	22.9	27.9	36.9	30.6	f.f. m obs.
12	50	3	32.8	38.9	49.6	44.2	
14	50	3	32.9	39.6	50.8	44.9	
14							
16	50	3	32.8	39.3	49.7	42.9	
16							
17	50	3	26.2	32.4	42.1	36.1	
17	50	2	4.1	9.8	19.9	13.9	
18	50	2	53.2	58.9	7.4	2.2	
18	50	1	53.2	58.4	7.8	3.9	
19	50	3	34.4	40.2	49.8	44.1	
19	50	2	7.0	12.1	22.0	18.0	

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1978phae.proj.1397R

Piscium $23^h\ 10^m\ 50^s$ $+2°\ 36'\ 57''$

1878			E	F	G	H	
Oct. 29	45'	4	5".1	13".8	27".2	23".2	
29	45	2	37.0	46.2	0.2	56.3	
~~31~~	~~45~~	~~4~~	~~11.8~~	~~20.0~~	~~30.8~~	~~29.7~~	~~O. K.~~
~~31~~							
Nov. 30	45	4	15.7	24.0	33.8	31.6	
30	45	2	42.4	51.3	0.3	59.9	
Dec 1	45	4	26.5	29.4	38.4	35.8	
1	45	2	44.1	51.2	58.8	59.2	
6	45	4	10.9	17.4	25.3	22.7	J. F. M. Hs.
6							
19	45	4	14.0	21.4	28.7	26.0	
19	45	2	47.4	54.3	0.9	59.7	

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1878phae.proj:1397R

λ Andromedae $^h 23\ ^m 31\ ^s 36$ $+45^\circ\ 47'\ 49''$

1878			E	F1	G	H	
Oct. 29	35′	4′	3.″8	8.″5	23.″9	19.″6	Lost 1st & 2 wires
29	35	2	41.3	46.0	0.9	57.7	
Dec. 6	35	4	14.1	16.1	24.1	23.1	J. F. M. Jr.
6							

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1878phae.proj.1397R

γ Cephei $23^h\ 34^m\ 21^s$ $+76°\ 57'\ 5''$

1878			E	F	G	H	
	′	″	″	″	″	″	
Oct. 29	25	4	48.2	49.9	3.1	3.3	Lost 1st ″ 5 wires
29	25	4	23.7	25.0	38.0	40.5	Rej. 1st ″ stroke of 2nd δ
Nov. 10	30	0	8.5	9.3	18.6	20.9	
10	25	4	24.5	24.3	33.1	37.4	
12	30	0	9.1	10.3	24.8	28.0	
12							
13	25	4	38.1	39.1	51.7	52.4	A 7 tc
13							
14	30	0	10.8	11.4	20.8	23.1	
14							
30	25	4	42.5	44.0	53.9	56.4	A
30							
Dec. 1			A. R.				
6	25	4	59.8	58.4	4.9	9.2	δ 7, m obs, Prob. lost 1st ″ wire
6							
7	25	4	44.5	43.4	50.3	52.1	Lost A +1
7							
14	25	4	39.5	39.5	48.5	50.4	A
14							
16	25	4	48.1	47.4	54.4	57.7	Lost 1st ″ 4 wires Perhaps lost 4th stroke δ
16							
18	25	4	41.8	41.1	47.9	50.4	Lost A +1
18	25	4	17.8	17.3	23.8	27.9	

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71 Aquarii. 4 $2\frac{1}{2}$ $43^m\ 8^s$ − 14° 14′

	1878			E	F	G	H	
	Nov. 2	35′	4′	42″.1	52″.6	9″.2	1″.2	15 wires
	2	35	3	33.0	42.5	59.9	52.8	
	4	35	4	15.9	26.5	35.7	28.5	
	4	35	3	20.1	28.9	41.2	32.3	
5.0	6	35	4	49.1	57.7	9.1	1.5	
	6	35	3	20.3	29.1	40.4	33.0	
5.0	10	35	4	29.2	38.5	51.8	44.3	Lost 1st wire
	10	35	3	23.6	31.9	46.0	38.2	
5.0	12	35	4	21.6	31.9	48.9	41.4	Lost 1st 2 wires
	12	35	3	26.2	35.7	52.0	45.4	
	13	35	3	35.8	45.7	0.1	57.1	A_{-1} A_{-2}
	13							
5.0	14	35	4	19.0	29.3	43.1	32.7	Lost 1st wire
	14	35	3	18.8	28.8	42.1	33.8	
~~5.8~~	~~30~~	~~35~~	~~4~~	~~44.4~~	~~53.9~~	~~6.2~~	~~0.6~~	
	~~30~~	~~35~~	~~3~~	~~25.7~~	~~35.2~~	~~48.3~~	~~42.3~~	
	Dec 1	35	4	49.9	57.9	11.7	5.1	
	1	35	3	20.8	29.3	41.8	35.3	
5.2	7	35	4	49.9	58.1	7.8	1.3	
	7	35	3	22.3	30.3	40.8	33.1	
5.0	12	35	4	51.8	1.3	13.3	5.9	
	12	35	3	31.0	40.0	51.5	44.9	
5.5	14	35	4	49.0	57.8	9.4	2.3	
	14	35	3	27.2	35.7	47.2	40.7	
4.8	16	35	4	44.1	53.2	3.6	56.3	Rej. 2nd S.
	16							

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1878phae.proj.1397R

β Aquarii. 4 22h 46m 15s − 8° 15′

1878

				E	I	G	H	
	Nov. 2	35′	4′	32.5″	39.7″	58.4″	49.8″	25 wires
	2	35	2	8.7	15.4	34.1	27.0	
	4	35	3	56.3	2.5	16.8	8.1	Lost A +2
	4	35	3	0.6	7.9	20.7	13.1	
5.0	6	35	4	36.0	42.2	56.1	47.7	
	6							
4.4	10	35	4	38.9	45.1	59.8	52.1	
	10							
5.5	12	35	4	39.1	46.1	3.9	57.3	
	12	35	3	11.2	17.3	35.9	29.3	
5.0	13	35	4	33.9	40.9	57.8	48.6	
	13	35	3	14.5	21.8	37.9	30.5	
4.5	14	35	4	37.9	44.4	0.4	51.3	
	14	35	3	6.9	13.8	29.0	21.7	
5.7	30	35	4	38.7	44.5	0.8	53.2	
	30	35	3	19.0	25.9	40.9	34.3	
	Dec 1	35	4	32.5	38.2	53.4	46.6	
	1	35	3	7.2	13.2	27.0	21.0	
5.5	7	35	4	38.0	43.9	55.2	47.4	
	7	35	3	9.1	13.7	25.9	17.9	
5.0	12	35	4	42.1	48.5	1.9	54.4	
	12	35	3	12.7	19.1	32.3	27.0	
4.8	14	35	4	37.5	43.4	57.8	50.2	
	14	35	3	19.2	24.8	37.4	31.9	
4.5	16	35	4	38.8	45.2	58.6	50.2	
	16	35	3	27.8	33.4	47.2	40.8	

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1878phae.proj.1397R

α 9.5 — 22h 51m 40s — 11° 47′

	1878			E	F	G	16	
	Nov. 2	10	2	39.6	48.5	7.4	58.2	
	2	10	1	13.2	20.9	40.2	31.2	
9.0	4	10	2	45.9	54.1	7.4	58.4	
	4	10	1	19.7	28.0	41.0	34.1	
9.0	5	10	2	44.1	50.8	4.2	55.2	Lost 1st ″ wire
	5	10	1	13.1	21.0	34.2	26.3	
9.1	6	10	2	42.5	50.5	5.1	55.9	Lost A$_{-1}$ 1, 2, 3
	6	10	1	16.0	23.1	37.9	30.0	
9.0	10	10	2	47.1	54.1	9.6	0.8	
	10	10	1	18.9	27.2	42.1	34.1	
9.0	12	10	2	44.3	52.4	12.1	2.2	
	12	10	1	20.0	28.1	47.9	39.8	
9.1	13	10	2	45.4	53.4	10.4	0.9	
	13	10	1	19.3	28.8	45.3	36.2	
9.1	14	10	2	43.2	50.6	5.5	56.6	
	14	10	1	17.5	25.6	41.2	32.9	
9.4	30	10	2	37.9	45.6	1.5	53.9	6 strokes foot of δ
	30	10	1	29.1	37.1	51.6	46.1	
9.0	Dec 7	10	2	50.4	58.2	10.9	1.1	
	7	10	1	27.8	35.1	47.1	38.7	
9.2	12	10	2	44.8	52.6	5.4	58.6	
	12							
9.2	14	10	2	13.6	21.8	34.8	27.5	Lost 1st 2 wires
	14	10	1	21.1	29.3	43.0	33.9	
9.2	16	10	2	40.3	47.1	0.4	52.8	Rej. 2nd δ
	16							Obs. difficult to see

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1878cohae.proj.1397R

8.5 22h 56m 7s −11° 55′

	1878			E	F	G	H	
	Nov. 2	20	0	48.8″	58.0″	17.3″	7.1″	Upper + foll. H
	2	15	4	23.2	32.0	49.0	42.1	
8.5	4	20	0	54.2	2.8	17.4	7.4	
	4	15	4	28.7	36.1	49.1	41.6	
8.4	5	20	0	57.1	4.2	19.7	9.9	
~~8.5~~	5	15	4	23.2	30.9	43.2	37.0	
8.5	6	20	0	52.6	0.0	4.9	5.5	
	6							
8.7	10	20	1	3.4	11.3	26.4	17.7	
	10	15	4	31.6	39.1	52.2	46.2	
8.3	12	20	0	46.8	54.7	14.6	5.1	
	12	15	4	30.1	38.2	55.3	50.0	
8.4	13	20	0	52.9	1.4	18.9	9.8	
	13	15	4	35.1	43.7	59.2	52.2	
8.3	14	20	0	21.9	30.1	45.6	35.9	Lost A +2
	14	15	4	31.9	39.9	53.5	46.8	
8.4	Dec 7	20	0	55.1	1.0	14.8	5.0	Lost A −2
	7							
	12	20	0	57.4	5.1	19.9	11.6	~~Lost A. +A~~
	12	Lost A −1, +A −2 perhaps part of A. Clouds. Obs. very poor						
8.2	14	20	0	49.1	55.8	10.0	1.4	
	14	15	4	35.6	42.2	54.0	49.1	

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1878phae.proj.1397R

γ 8.5 ^{h} 23 ^{m} 0 ^{s} 33 −13° 23′

	1878			E	F	G	H
	Nov. 2	45′	3	40.3	49.7	6.6	59.7
	2	45	2	19.2	28.2	46.2	38.6
8.7	4	45	3	45.8	55.0	6.3	57.0
	4	45	2	15.6	24.1	35.9	26.6
8.7	5	45	3	50.9	59.1	12.1	3.6
	5	45	2	18.8	26.9	38.9	32.3
8.5	6	45	3	44.9	53.1	5.6	58.0
	6	45	2	13.2	20.8	34.2	26.9
8.7	10	45	3	52.6	1.4	15.7	6.8
	10	45	2	26.2	34.2	49.0	41.8
8.8	12	45	3	46.1	54.9	12.9	4.6
	12	45	2	18.9	28.8	45.4	38.6
8.8	13	45	3	48.4	58.6	13.9	5.0
	13	45	2	19.3	29.3	44.9	37.5
8.6	14	45	3	27.1	36.4	50.2	41.7
	14	45	2	17.3	26.8	39.8	33.0
8.7	~~Dec. 3~~	~~45~~	~~3~~	~~27.8~~	~~37.1~~	~~52.5~~	~~46.2~~
	~~3~~	~~45~~	~~2~~	~~31.9~~	~~40.8~~	~~55.3~~	~~49.8~~
8.8	Dec. 7	45	4	12.0	21.5	38.3	22.4
	7	45	3	36.8	45.8	52.0	47.7
	12	45	3	49.9	58.4	11.3	4.1
	12	Lost A 1, 2, 3 Rej. A					
8.7	14	45	3	49.9	58.1	10.2	3.9
	14	45	2	23.2	31.7	44.4	37.2
8.7	16	45	3	48.3	55.9	7.8	1.1
	16	45	2	16.8	26.1	37.1	30.8

Lost 1st 2 wires

A + foll. Edge of Nic Star in reading chart

Lost 1st wire

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1878phae.proj.1397R

S 9.0 ^{h}23 ^{m}5 ^{s}6 −11° 10′

	1878			ξ	η	ζ	ϑ
	Nov. 2	35′	1′	0.″6	8.″4	27.″8	18.″2
	2	30	4	27.4	34.6	53.4	45.7
9.1	4	35	0	42.1	49.3	3.9	54.1
	4	30	4	23.7	30.1	43.1	35.5
9.0	5	35	1	4.2	10.1	24.5	15.9
	5	30	4	26.1	34.3	47.5	39.7
8.9	6	35	0	56.4	2.5	18.1	8.2
	6	30	4	25.2	31.8	45.4	37.8
9.0	10	35	0	56.9	3.9	20.1	10.2
	10	30	4	28.2	34.4	49.6	42.3
9.0	12	35	0	51.7	58.9	19.0	9.7
	12	30	4	32.0	39.8	58.4	51.2
8.7	13	35	0	32.1	40.2	58.1	49.7
	13	30	4	21.3	29.8	46.2	38.0
8.6	14	35	0	51.5	58.3	14.9	5.1
	14	30	4	24.7	32.2	47.1	39.2
9.0	Dec. 7	35	1	3.2	9.4	21.2	12.7
	7	30	4	26.8	34.1	44.2	37.8
9.0	14	35	0	53.2	59.2	14.1	5.8
	14	30	4	28.8	35.2	48.0	41.8
	16	35	0	57.7	3.3	18.1	8.8
	16	30	4	32.2	38.2	0.5	45.0

A_{-2}^{2} ?

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1878phae.proj.1397R

91 Aquarii 4.5 $23^h\ 9^m\ 29^s$ $-9°\ 45'$

	1878			E	F	G	H
	Nov. 2	10	0	53.6	0.4	20.9	11.6
	2	5	4	29.0	35.6	54.8	47.0
4.5	4	10	0	57.2	4.4	18.7	9.7
	4	5	4	22.8	29.0	43.7	36.2
4.6	5	10	0	55.4	1.9	16.8	6.9
	5	5	4	25.0	31.1	45.0	37.2
	6	10	0	54.9	59.6	16.1	7.3
	6	5	4	29.0	35.6	48.8	42.3
4.9	10	10	0	59.7	6.1	21.9	14.2
	10	5	4	29.2	36.2	50.1	44.9
4.7	12	10	1	0.2	6.9	27.2	18.5
	12	5	4	21.9	28.7	48.3	41.3
4.9	13	10	0	58.4	5.4	23.2	14.2
	13	5	4	27.8	34.7	52.0	44.1
4.7	14	10	0	57.1	4.4	20.3	10.9
	14	5	4	26.2	33.7	49.0	42.1
	Dec. 3	10	0	~~58.8~~	~~5.9~~	23.2	~~16.0~~
		5	4	~~27.9~~	~~35.0~~	~~52.4~~	~~45.4~~
5.0	7	10	0	57.6	3.5	17.2	7.8
	7	5	4	32.6	38.7	49.3	42.8
	12	10	0	53.1	59.8	15.1	7.3
	12						
5.3	14	10	0	56.6	2.1	17.4	10.2
	14	5	4	26.8	33.2	46.6	39.2
	16	10	0	55.4	0.5	15.9	7.8
	16	5	4	37.1	42.3	56.1	48.6

A +2

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24 Aquarii 6.0 $2^h 3^m 12^s$ $21^s - 14^\circ$ j'

	1878			E	F	G	H
	Nov. 2	30'	2'	57.9	8.2	24.2	16.4
	2	30	1	26.8	36.5	53.6	44.9
5.4	4	30	2	58.6	8.3	19.2	10.4
	4	30	1	27.2	37.7	47.6	40.3
5.8	5	30	2	54.9	3.4	14.2	6.4
	5	30	1	29.6	38.9	49.3	43.9
5.5	6	30	3	0.2	9.2	20.3	12.8
	6	30	1	30.9	40.2	51.9	44.9
6.5	10	30	3	0.3	9.5	21.9	13.1
	10	30	1	28.3	37.2	50.1	44.0
6.2	12	30	2	48.7	58.4	15.1	6.0
	12	30	1	29.4	39.7	56.0	48.9
6.0	13	30	2	55.7	5.8	20.6	11.9
	13	30	1	26.9	27.2	50.9	43.9
6.3	14	30	3	0.6	9.6	22.6	14.4
	14	30	1	23.3	34.3	47.0	39.2
6.0	Dec. 3	~~30~~	~~3~~	~~1.5~~	~~11.4~~	~~25.2~~	~~18.3~~
	~~3~~	~~30~~	~~1~~	~~33.4~~	~~42.5~~ 3	~~56.8~~	~~51.9~~
6.4	7	30	2	53.7	2.1	12.3	3.4
	7	30	1	31.4	40.4	49.8	43.1
6.2	14	30	2	56.3	5.0	16.3	9.2
	14	30	1	25.2	34.8	45.8	39.9

double
Comp. fps. above

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λ 8.5 $23^h\ 16^m\ 39^s$ − 11° 27′

	1878			E	F	G	H
	Nov. 2	50′	2′	14.1″	22.4″	41.8″	31.7″
	2	50	0	50.8	57.6	18.0	9.2
8.6	4	50	2	15.9	23.6	37.6	28.4
	4	50	0	46.0	52.3	6.1	59.0
8.4	5	50	2	14.6	21.3	34.5	26.8
	5	50	0	43.3	49.9	3.9	56.9
8.7	6	50	2	14.3	21.1	35.4	26.6
	6	50	0	50.1	56.5	11.8	3.1
8.1	10	50	2	16.1	23.6	38.9	30.2
	10	50	0	47.0	54.2	9.1	2.2
8.7	12	50	2	14.8	22.5	41.9	32.3
	12	50	0	47.3	54.9	14.1	5.8
8.3	13	50	2	17.9	25.7	42.7	32.9
	13	50	0	48.4	56.1	13.4	5.3
8.5	14	50	2	18.8	26.4	42.9	32.3
	14	50	0	44.1	51.3	5.9	58.2
9.5	Dec. 3	~~50~~	~~2~~	~~14.2~~	~~22.9~~	~~39.2~~	~~31.3~~
	3						
8.7	7	50	2	12.4	18.2	29.3	21.9
	7	50	0	44.8	51.2	3.0	54.9
8.5	14	50	2	19.7	26.8	44.4	32.9
	14	50	0	46.7	54.1	6.6	0.8
8.4	16	50	2	10.1	17.1	30.5	23.1
	16	50	0	55.4	1.3	15.2	17.8

Thick clouds

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9.0 $23^h\ 20^m\ 17^s - 10^\circ\ 43'$

	1878			E	F	G	H	
	Nov. 2	5′	3′	2.4″	9.1″	29.1″	19.4″	
	2	5	1	33.8	40.5	0.3	52.9	
8.7	4	5	3	7.4	13.1	27.8	19.2	
	4	5	1	32.3	39.0	54.0	45.2	
9.0	5	5	3	6.1	12.4	26.0	18.0	Hazy
	5	5	1	26.1	32.8	47.2	39.3	
8.8	6	5	3	4.2	10.4	25.3	17.1	
	6							
8.9	10	5	2	51.9	58.5	13.7	5.9	
	10	5	1	42.9	49.2	4.4	57.2	
	12	5	3	11.5	18.7	38.3	29.1	
	12							
8.7	13	5	2	58.9	6.3	23.4	14.1	Rej. 2nd δ
	13							
8.7	14	5	3	3.1	8.9	25.2	16.1	
	14	5	1	28.9	36.3	51.4	42.2	
Dec	7	5	3	0.4	6.2	18.9	8.1	
	7							
8.9	14	5	2	48.3	53.9	8.7	0.2	
	14	5	1	35.8	41.9	55.3	49.8	
	16	5	2	44.2	49.6	3.0	56.1	Rej. A_{+1} 4
	16	Lost 1st wire						

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1878phae.proj:1397R

6.5 $23^h\ 31^m\ 55^s\ -9°\ 19'$

	1878			ξ	η	G	H
	Nov. 2	40	3	56.8	3.4	22.5	14.6
	2	40	2	24.1	32.1	50.0	42.8
	4	40	4	0.6	6.8	19.7	12.6
	4	40	2	26.7	32.9	46.5	38.9
	5	40	3	57.8	4.1	17.4	9.5
	5	40	2	30.6	36.3	50.2	42.9
7.2	6	40	4	2.8	6.9	21.6	13.9
	6	40	2	32.2	38.0	52.3	45.3
	12	40	3	59.6	6.3	24.6	18.3
	12						
6.7	13	40	4	0.1	7.4	23.4	15.0
	13	40	2	28.9	36.6	52.0	45.0
	14	40	4	1.6	8.1	22.6	14.9
	14						
	30	40	3	53.4	0.4	16.8	8.4
	30	40	2	25.0	31.6	46.5	41.9
7.6	Dec. 7	40	3	56.3	1.7	11.5	4.9
	7	40	2	42.3	47.8	58.2	52.7
8.1	14	40	4	0.4	6.4	20.6	13.1
	14	40	2	32.8	39.9	52.5	46.9
7.8	16	40	4	57.4	2.9	16.4	9.1
	16	40	2	37.3	42.7	56.3	51.1

A little hazy.

~~Rep. the foc. Nov. 10~~

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1878phae.proj.1397R

105. Aquarii. 4.5 ^{h} 23 ^{m} ~~34~~ 36 ^{s} ~~57~~ 23 − 15° 13′

1878

				E	F	G	H	
		′	′	″	″	″	″	
4.9	Nov. 4	35	3	42.3	51.9	1.5	53.9	
	4	35	2	13.0	23.2	33.0	26.8	
4.7	5	35	3	40.0	50.5	59.7	(5)3.1	
	5	35	2	12.1	21.2	32.2	25.6	
4.0	6	35	3	43.9	53.4	3.8	52.5	
	6	35	2	13.1	22.7	33.1	29.8	
(8.3)?	12	35	3	13.8	24.1	40.4	33.1	Lost 1st 2 wires
	12	35	2	2.7	12.8	29.0	22.0	
6.0	13	35	3	17.3	28.2	41.5	33.6	Lost 1st wire
	13	35	2	12.9	24.4	37.0	30.3	
5.8	14	35	3	16.6	26.6	38.6	31.9	
	14	35	2	5.9	15.8	28.2	21.1	
	30	35	3	30.6	41.1	54.2	47.1	
	30	35	2	8.1	17.8	29.9	25.0	
	Dec 1	35	2	17.0	26.9	38.0	33.3	
4.2	7	35	3	32.7	41.5	51.1	43.5	
	7	35	2	20.2	28.8	37.2	31.8	
5.8	14	35	3	44.2	53.4	4.7	56.9	
	14	35	2	34.0	43.7	54.8	58.2	
6.0	16	35	3	32.6	41.7	52.4	45.9	
	16	35	2	14.0	22.6	33.7	28.1	

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1878. Nov. 2

α Aquilae	50	3	34.6	41.4	58.1	52.4	
19 44	50	2	12.0	18.9	34.9	31.1	
19 49 25	20	0	8.1	17.1	33.2	27.2	
+6 6	15	3	56.0	5.0	19.0	15.9	
20 11 23	20	0	43.9	52.0	12.5	5.4	
−12 55	15	4	40.0	48.2	9.4	0.8	
20 37 20							
+44 51							
21 59 37	20	0	26.5	34.9	52.8	45.1	Lost Pt. wire
−0 54	15	4	20.8	28.8	46.0	39.8	
28 51 1							
−30 15							
22 58 47							
+14 34							

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1878. Nov. 3

α Aquilae		50	3	43.8	52.0	8.1	0.7
19 44 +8 32		50	2	22.1	30.2	46.0	38.9
19 49 25		20	0	22.4	32.2	47.8	40.2
+6 6		15	4	4.3	14.2	28.8	23.8
20 11 23		20	1	7.5	16.4	36.4	26.4
−12 55		15	4	39.3	48.0	8.0	57.2
20 37 20							
+44 51							
21 59 37		20	0	50.1	57.3	14.5	5.7
−0 54		15	4	23.9	32.2	46.9	41.1

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1878phae.proj.1397R

Nov. 4

19 44	50	3	21.6	29.7	43.3	35.2
+8 32	50	2	22.9	31.2	44.2	39.2
19 49 25						
+6 6						
20 11 23	20	0	58.2	6.4	23.6	15.0
−12 55	15	4	37.0	45.1	59.8	54.3
20 37 20	35	1	9.6	14.0	27.5	23.5
+44 50	35	0	13.2	17.7	30.0	28.8
21 59 31	20	0	42.2	49.8	3.3	56.3
−0 54	15	4	24.0	32.7	43.9	38.2

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Nov. 5

19 40 28	5	2	37.2	43.4	56.2	51.9
+10 19	5	1	10.5	16.5	28.7	24.9
19 44 50	50	3	48.6	55.7	6.8	1.9
+ 8 32	50	2	18.5	25.2	36.0	32.0
19 49 25	20	0	26.8	35.2	46.9	41.6
+6 6	15	3	49.1	57.0	6.2	3.8
20 11 23	20	1	15.2	23.7	38.4	29.8
−12 55	15	4	43.8	51.7	3.4	56.7
20 37 20						
+44 50						
21 59 31	20	0	59.4	6.3	20.9	12.5
−0 54	15	4	28.2	35.1	47.2	41.8
21 27 5	25	0	57.6	56.9	7.5	7.7
+70. 1	20	4	54.7	53.7	3.8	4.8

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Nov. 6

19 49 19	2	20	0	18.6	26.1	36.7	33.1
+6 6		15	3	58.4	6.6	16.3	13.6
20 9 48		0	4	55.7	58.1	8.1	5.8
+46 22							
20 11 23	Lost 1st 2 wires	20	0	35.3	43.3	57.8	48.7
−12 55		15	4	41.3	48.8	1.0	53.6
20 37 20							
+44 50							
21 27 5	A_{+1}, 2, 3, 4, 5, 6, 7, 8, 9	25	0	52.1	52.0	2.5	2.1
+70 1	A_{+1}, 2, 3, 4 A_{-1}. Clouds	20	4	50.9	49.9	59.3	1.2
21 59 31		20	0	54.9	1.4	15.2	7.6
−0 54		15	4	26.3	33.3	43.9	39.5

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1878phae.proj,1397R

Nov 10 1877

2 18 32 +39 40 — 45 — 2 — 3,2 — 17,3 — 19,3 — 18,0 — N.R.R.

18 45 24 +33 13 — 10 — 3 — 39,8 — 43,0 — 5-5,1 — 53.3 — N.R.R.

19 2 57 +35 54

Nov 8 1878

21 27 +70 1 — 25 0 — 20,0 — 20,6 — 34,8 — 37,0 — N.R.R.

21 88 +9 19 — 5 — 1 — 54,4 — 2,5 — 15,7 — 10,8 — N.R.R.

Nov 14

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10714 1075

20 37 35 0 44,4 47,2 0,8 58,3

+44 50

21 27 25 0 56,4 56,8 9,0 10,1

+70 1

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Nov 6 (61 = 9,3

~~Aug.~~ Nov. 1. = 9,4 on A_9 at $a^2 \cdot a^2 4i^m$

$\mathfrak{N}(2)$

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28.4
28.2
28.2
28.2
28.2
28.3
28.0
28.9

8.2
10.0
21.4

38.6
37.2
45.1

59.9
-0.6
10.3

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