1896phae.proj..4440

KG
113605
443

Ephemerides of

Variable Stars.

(Continued from Book 16)

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics. • Provided by the NASA Astrophysics Data System

KQ11365.448

1998phd..proj..1410

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4410

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4410

KG-11365.443

HARVARD
UNIVERSITY
LIBRARY
MAY 7 1956

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Designation	Prim. Term.	2d Term.	3d Term.
β Lyrae	$12^d.907\,6192$	$+0.^d4217\,\varepsilon^2 - 0.^d000\,007\,6\,\varepsilon^3$	
δ Cephei	$5.^d366\,4271$	$-0.^d000\,48\,\varepsilon^2 - 0.^d000\,000\,15\,\varepsilon^3$	

Log. $12.^d907\,6192 = 1.110\,4462$

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Algol Type Variable.

Desig.	R. A.	Dec.	Period.	Amt. and Duration.
X Algol.	2h 2m.5	+40° 23'.6	2d 20h 48m 52s.	2m.2 to 3m.7 in 10h 0m
X N Aurigæ.	5 32.9	+39 33.2	9 11 37 45.	4.2 " 9.8 " 21 30
X R Tauri.	3 52.9	+12 4.6	3 22 50 53.	3.4 " 4.2 " 10 0
δ Librae.	14 53.4	−7 56.4	2 7 51 20.	4.9 " 6.1 " 12 0
U Coronae	15 12 17.	+32 10.4	3 10 51 15.	7.6 " 8.8 " 9 45
X U Cephei.	0 49 38.8	+81 55.5	2 11 49 30.	7.2 " 9.4 " 10 0
U Ophiuchi	17 9 11.	+1 22.6	0 20 7 45.	6.0 " 6.7 " 4 30
X Z Cygni.	20 46 16.	+34 7.0	1 11 58 31.	7.1 " 7.9 " ~~6~~ 8 ~~0~~
X R Canis Maj.	7 12 55.	−16 7.6	1 2 43 12.	5.9 " 6.7 " 5 0
Z Herculis.	17 51 34.	+15 0.9	3 23 45 30.	6.9 " 8.0 " 6.6
" "	"	"	"	6.9 " 7.4 " 4.0
X S Antliae.	9 25 27.	−27 59.4	0 7 46 40.0	6.7 " 7.3 " abt. 3½ hrs.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Cephei. East. Time.

Date.				
June	4.	7.	to	7.
	9.	7	"	16.h
	14.	7	"	16.
	19.	7	"	16.
	24.	7	"	15.
	29.	7.	"	15.

1900.
$0^h\ 52^m\ 34^s.\quad +81°\ 16'.0$

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Ophiuchi: East. Time.

Date.		Limit of Variation.			
June	2	10h 47m	to	14h 14m	
	3	7.	"	11	14
	7	11 47	"	16	14
	8	7.	"	12	14
	9	7	"	8	14
	12	11 47	"	16	14
	13	8 47	"	13	14
	14	7	"	9	14
	17	12 47	"	17	14
	18	8 47	"	13	14
	19	7.	"	9	14
	22	13 47	"	7.	
	23	9 47	"	14	14
	24	7.	"	10	14
	27	11 47	"	16	14
	28	10 47	"	15	14
	29	7.	"	11	14

1900.

17h 10m Rg.n +1° 19.9

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Z Herculis. East. Time.

Minimum.	Date.	Limit of Variation.
Secondary.	June 2	12^h ν^m to 16^h ν^m
Principal.	K	11 ν4 " I.
Secondary.	6	11 3 " 1ν 3
Principal.	8	11 K3 " I.
Secondary.	10	11 K2 " 1ν K2
Principal.	12	11 31 " I.
Secondary.	14	11 30 " 1ν 30
Principal.	16	11 20 " I.
Secondary.	18	11 19 " 1ν 19
Principal.	20	11 8 " I.
Secondary.	22	11 7 " 1ν 7
Principal.	24	10 ν7 " I.
Secondary.	26	10 ν6 " 1K ν6
Principal.	28	10 Kν " I.
Secondary.	30	10 KK " 1K KK

17^h ν.3 $36^m.06$ $\overset{1900.}{}$ + 1ν° 8′ K7″.2

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

δ Librae. East. Time.

Date.	Limit of Variation.			
June 2.	I.	to	12^h 0^m	v v
4.	I.	"	11 0	
9.	I.	"	12 0	v v
11.	I.	"	I.	v v
16.	I.	"	11 0	v v
18.	I.	"	I.	v v
23.	I.	"	11 0	v v
25	I.	"	I.	v v
30.	I.	"	10 0	v v

1900.
14^h 55m 5s. −8° 49′

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1 Camera. June. East Time.

Date.	Limit of Variation.
June 4.	I. to I.
23.	I. " I.

1900.

α^h 37^m 39^s. +19° 25′.9

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

4 Cygni. June. East. Twi.

June 3. $11^h\ 0^m$ to $17^h\ 0^m$

6. " " "

9. " " "

12. " " "

15. " " "

18. " " "

21. " " "

24. " " "

27. " " "

30. " " "

1900.

$20^h\ 46^m\ 4^s$ $+34°\ 17.'0$

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Coronæ. June. Est. Time.

Date.	Limit of Variation.
June 2.	I. to 15^h 5^m
9.	I. " A 5^1
19.	I. " I.
26.	I. " K 5^1.

1900.

15^h 13^m K2. $+32^\circ$ 3.1

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Algol. June. East. Time.

Date.	Limit of Vacation.
June 27.	7 to 7.

1900.
3h 1m 1.m +40° 31.9′

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

δ Librae. July. East. Time.

Date.	Limit of Vibration.				
July 2.	6h	0m	To	18h	0m
7.	T.	"		10	0
9.	T.	"		T.	
14.	T.	"		9	0
16.	T.	"		T.	
18.	T.	"		T.	
23.	T.	"		T.	
30.	T.	"		16	0

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

✓

U Coronae. July. East. Time

Date.	Limit of Variation.
July 3.	I. to 12h √1m
10.	I. " 10 √1
17.	I. " 4 √1
20	9h 9m " I.
27.	I. " I.

July	3.	I.	"	13 2	<
	10.	I	"	10 KK	<
	13.	11 √3	"	I.	<
	17.	I.	"	4 26	<
	20.	9 3√	"	I.	<
	27.	I.	"	I.	<

Hastings's Eph. Checked.

1900.

15h 13m K2s. + 32° 3′

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

From Dunér's Eph. Checked.

Z Herculis. July. East. Time.

	Date.				
Principal.	July 2.	10h	33m	to	J.
Secondary.	4.	11	33	"	1h 33
Principal	6.	10	22	"	16
Secondary	8.	11	21	"	1 21
Principal.	10.	10	10	"	16 46
Secondary	12.	11	10	"	1 10
Principal.	14.	9	59	"	16 31
Secondary.	16.	10	48	"	1 48
Principal	18.	9	47	"	16 23
Secondary	20.	10	47	"	1 47
Principal	22.	9	36	"	16 12
Secondary.	24.	10	35	"	1 35
Principal	26.	9	24	"	16 0
Secondary.	28.	10	24	"	1 24
Principal.	30.	9	13	"	1 49

Hsd.

This star is B.D. +14° 3311

R.A.	1900.	Dec.
17h 13m 36.06		+14° 47' 47.2

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

From Hartwig's Eph.
Checked.

γ Cygni: July. East. Sun.

July 1.	19h 29m 4s	E.	
3.	20 47	"	16 47
5.	19 23	"	E.
6.	20 42	"	16 42
7.	19 18	"	E.
9.	20 37	"	16 37
10.	19 12	"	E.
12.	20 32	"	16 32
13.	19 7	"	E.
15.	20 26	"	16 26
16.	19 1	"	E.
18.	20 21	"	16 21
19.	13 56	"	E.
21.	20 16	"	16 16
22.	13 50	"	E.
24.	20 11	"	16 11
25.	13 45	"	E.
27.	20 6	"	16 6
28.	13 39	"	E.
30.	20 1	"	16 1
31.	13 35	"	E.

20h 58m 4s 1900. +35° 17.6

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Hartwig's Eph.
Checked.

U Cephei. July. East. Time.

July 4.	7.	to	16	43m	<
9.	7.	"	16	23	<
14.	7.	"	16	2	<
19.	7.	"	13	41	<
24.	7.	"	13	21	<
29.	7.	"	13	0	<

$0^h\ 52^m\ 34^s$ 1900. $+81°\ 16.'0$

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Hastings Espt.
Checked.

ζ Librae. July. East. Time.

July 2.		ζ.	to	ζ.
4.	13h	ζ.	"	ζ.
7.		ζ.	"	9h 46m
9.		ζ.	"	ζ.
11.	13	ζ.	"	ζ.
14.		ζ.	"	9 20
16.		ζ.	"	ζ.
18.	13	ζ.	"	ζ.
21.		ζ.	"	8 54
23.		ζ.	"	ζ.
25.	12	37	"	ζ.
28.		ζ.	"	8 29
30.		ζ.	"	ζ.

1900.
1h 55m 51s −8° 4.9

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

 Hartwig's Eph.
Checked.

Algol. July. East. Time.

July 3.	T.	to	11h	11m	<
6.	T.	"	8	39	<
14.	13h	6m	"	T.	<
17.	9		"	T.	<
20.	T.		"	T.	<
23.	T.		"	13	33 <
26.	T.		"	10	22 <

3h 1m 1.n 1900. +40° 31.9

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Ophiuchi. July. East. Time.

Date.					
July	3.	11h	23m	to	T.
	4.	T.	"	12h	1m
	8.	12	9	"	T.
	9.	8	17	"	12 47
	10.	T.	"	8 55	
	13.	12 56	"	T.	
	14.	9	3	"	13 33
	15.	T.	"	9 41	
	18.	13 42	"	T.	
	19.	9 49	"	14 19	
	20.	T.	"	10 28	
	23.	14 28	"	T.	
	24.	10 36	"	15 6	
	25.	T.	"	11 13	
	28.	15 14	"	T.	
	29.	11 22	"	T.	
	30.	T.	"	12 0	

17h 9m 11s +1° 22′.6

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

β Persei. August. East. Time.

Aug.	6.	16h 37m	to	I.
"	9.	& 26	"	I.
"	12.	I.	"	I.
"	15.	I.	"	12h 4m
"	18.	I.	"	& ν3
"	26.	13 19	"	I.
"	29	10 &	"	I.

Time of mm. East. Time.

Aug.	6.	16h 37m
	9.	13 26
	12.	10 15
	15.	7 4
	18.	3 ν3
	26.	18 19
	29.	15 &

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

δ Librae. August. East. Time.

Aug.	1.	$12^h\ 11^m$	to	δ.
"	6.	δ.	"	δ.
"	8.	11 46	"	δ.
"	13.	δ.	"	$15^h\ 28^m$
"	15.	11 20	"	δ.
"	20.	δ.	"	15 2
"	22.	10 54	"	δ.
"	27.	δ.	"	14 37
"	29.	10 28	"	δ.

Time of Min. East. Time.

Aug.			
	1.	18^h	11^m
	6	9	54
	8	17	46
	13	9	28
	15	17.	20
	20	9	2
	22	16	54
	27	8	37
	29	16	28

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Coronae. August. East. Time.

Aug.	3.	J.	to	14h	41m
"	10.	J.	"	12	23
"	13.	13 J. 32	"	10	J.
"	17.	J.	"		
" *	20.	11h 14m	"	J.	
"	27.	J.	"	J.	

Time of Min. East. Time.

Aug. 3.
10.
13.
17.
20.
27.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Cephei.

~~August. 1. 14 30 to J.~~

" 3. J. " 12 39

" ~~6.~~ 5. 14 29 " J.

" 8. J. " 12 18

" 10. 14 8 " J.

" 13. J. " 11 57

" 15. 13 47 " J.

" 18. J. " 11 37

" 20. 13 26 " J.

" 23. J. " 11 16

" 25. 13 6 " J.

" 28. J. " 10 55

" 30. 12 45 " J.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Aphuichi: August. East. Time.

Aug.	3.	12h	9m	to	16h	38m	"
"	4.	8	16	"	12h	46m	"
"	5.	4	24	"	8	54	"
"	8.	12	55	"	17	25	"
"	9.	9	2	"	13	32	"
"	10.	5	10	"	9	40	"
"	13.	13	41	"	18	11	"
"	14.	9	49	"	14	19	"
"	15.	5	56	"	10	26	"
"	18.	14	27	"	18	57	"
"	19.	10	35	"	15	5	"
"	20.	6	42	"	11	12	"
"	24.	11	21	"	15	51	"
"	25.	7	28	"	11	58	"
"	29.	12	7	"	16	37	"
"	30.	8	15	"	12	45	"
"	31.	4	23	"	8	53	"

Time of var. = 4h 30m

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

ζ Herculis. August. East. Time.
Principal minima.

~~Aug. 1. 9h 4m to 12h 44m~~
" 3. 9 2 " 12 34 ~
~~" 5. 8 52 " 12 33~~
" 7. 8 40 " 12 26 ~
~~" 9. 8 28 " 12 19~~
" 11. 8 39 " 12 12 ~
~~" 13. 8 33 " 12 9~~
" 15. 8 27 " 12 3 ~
~~" 17. 8 33 " 12 9~~
" 19. 8 16 " 12 2 ~
~~" 21. 8 10 " 11 56~~
" 23. 8 4 " 11 50 ~
~~" 25. 7 59 " 11 37~~
" 27. 7 53 " 11 29 ~
~~" 29. 7 44 " 11 24~~
" 31. 7 41 " 11 17 ~

Series of variation = 6h 36m

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

T Herculis, August. East. Time.

Secondary Minima.

Aug. 1.	9h	12m	to	13h	12m
" 3.	9	7	"	13	7
" 5.	9	1	"	13	1
" 9.	8	49	"	12	49
" 13.	8	38	"	12	38
" 17.	8	26	"	12	26
" 21.	8	15	"	12	15
" 25.	8	3	"	12	3
" 29.	7	52	"	11	52

Time of variation = 4h 0m

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

γ Cygni. August. East. Time.

Principal Maxima.

Aug.	2d	9h	56m	to	17h	56m
	5	9	51	"	17	51
	8	9	46	"	17	46
	11	9	41	"	17	41
	14	9	36	"	17	36
	17	9	31	"	17	31
	20	9	26	"	17	26
	23	9	21	"	17	21
	26	9	16	"	17	16
	29	9	11	"	17	11

Time of variation = 6h 0m

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

✓

γ Cygni. August. East. Time.

Secondary Minimum.

Aug.						
	0d	13h	3Km	to	19h	3Km
	3	13	2Am	"	19	2Am
	6	13	23	"	19	23
	9	13	1Am	"	19	1Am
	12	13	12	"	19	12
	15m	13	7	"	19	7
	18A	13	2	"	19	2
	21	12	57	"	18A	57
	24	12	51	"	18A	51
	27	12	46	"	18A	46
	30	12	40	"	18A	40

Time of variation = 6h 0m

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

β Persei. September. East. Time.

Sept. 4.	3h	46m	to	13h	46m
7.	0	3	"	10	3
10.	11	0	"	21	0
13.	8	39	"	18	39
16.	5	28	"	15	28
19.	2	17	"	12	17
30	−0	4	"	9	6

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

A Tauri. September. East. Time.

1895.	hrs				
Sept 1	10	0	h	20	0
5	8	53	"	18	53
9	7	40	"	17	40
13	6	37	"	16	37
17	5	29	"	15	29
21	4	21	"	14	21
25	3	14	"	13	14
29	2	6	"	12	6

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Cephei. September. East. Time.

1895.						
Sept.	2	0	34	to	10	34
	4	12	24	"	22	24
	7	0	14	"	10	14
	9	12	3	"	22	3
	12	− 0	7	"	9	53
	14	11	42	"	21	42
	17	− 0	28	"	9	32
	19	11	22	"	21	22
	22	− 0	49	"	9	11
	24	11	1	"	21	1
	27	− 1	10	"	8	50
	29	10	40	"	20	40

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Coronae. September. East. Time.

	1895	hrs	m		hrs	m
Sept	3	6	38	to	16	20
	10	4	21	"	14	3
	17	2	3	"	11	45
	20	12	54	"	22	36
	24	−0	15	"	9	27
	27	10	36	"	20	18

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

S Cancri. September. East. Time.

	1896	hrs				hrs	m	
Sept	7	−5	49	to	d.	15	41	c.
	16	5	48	"	1	3	18	c.
	26	−6	34	"		14	56	c.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

γ Cygni. September. East. Time.

1895.

Sept 1	9	5.3	to	15	5.3
2	12	33.7	"	18	33.7
3	9	0.2	"	15	0.2
5	12	28.2	"	18	28.2
7	8	55.1	"	14	55.1
8	12	22.7	"	18	22.7
10	8	50.1	"	14	50.1
11	12	17.2	"	18	17.2
13	8	45.0	"	14	45.0
14	12	11.8	"	18	11.8
16	8	39.9	"	14	39.9
17	12	6.3	"	18	6.3
19	8	34.8	"	14	34.8
20	12	0.8	"	18	0.8
22	8	29.8	"	14	29.8
23	11	55.3	"	17	55.3
25	8	24.7	"	14	24.7
26	11	49.8	"	17	49.8
28	8	19.6	"	14	19.6
29	11	44.3	"	17	44.3

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Ophiuchi. September. East Time.

1895.

Sept.	3.	12	53.7	to	17	23.7
	4.	9	1.4	"	13	41.4
	5.	4	9.2	"	9	39.2
	8.	13	40.0	"	18	10.0
	9.	9	47.7	"	14	17.7
	10.	5	55.4	"	10	25.4
	13.	14	26.2	"	18	56.2
	14.	10	34.0	"	15	4.0
	15.	6	41.7	"	11	11.7
	16.	2	49.4	"	7	19.4
	18.	15	12.5	"	19	42.5
	19.	11	20.2	"	15	50.2
	20.	7	27.9	"	11	57.9
	21.	3	35.6	"	8	5.6
	23.	15	58.8	"	20	28.8
	24.	12	6.5	"	16	36.5
	25.	8	14.2	"	12	44.2
	26.	4	21.9	"	8	57.9
	29.	12	52.7	"	17	22.7
	30.	9	0.4	"	13	30.4

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Z Herculis. September. East. Time.

	d	hrs	m		hrs	m	
Sept.	2.	7	40.4	to	11	40.4	<
	4	7	29.9	"	14	5.9	<
	6	7	28.8	"	11	28.8	<
	8	7	18.4	"	13	5-4.4	<
	10	7	17.3	"	11	17.3	<
	12	7	6.9	"	13	42.9	<
	14	7	5.8	"	11	5.8	<
	16	6	55.4	"	13	31.4	<
	18	6	5-4.3	"	10	5-4.3	<
	20	6	43.9	"	13	19.9	<
	22	6	42.8	"	10	42.8	<
	24	6	32.4	"	13	8.4	<
	26	6	31.3	"	10	31.3	<
	28	6	20.9	"	12	5-6.9	< Prim.
	30	6	19.8	"	10	19.8	< Sec.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

β Persei. October. East. Time.

Oct.	A.	13h	33m	to	23h	33m
"	11.	10	22	"	20	22
	14.	7	10	"	17	10
	17.	3	59	"	13	59
	20.	0	47	"	10	47
	31.	12	4	"	22	4

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

N Tauri. October. East. Time.

Oct. 3. 0^h $\sqrt{\alpha}$ to 10^h $\sqrt{\alpha}$
7. −0 10 " 9 $\sqrt{0}$
11. −1 10 " 8 K2

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

S Cancri. October. East. Time.

Oct. 5. 5h 4m to 26h 3Km
15. -7 10m " 14 12
24. 4 19 " 2m 49

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Coronae. October. - East. Time.

Oct.	4.	4h	14m 2s	14h	0m
	11.	6	0 "	15	42
	18.	3	42 "	13	24
	25.	1	24 "	11	6
	28.	12	15 "	21	57

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Cephei. October. East. Time.

Oct. 2.	−1h	30m	to	4h	30m
4	10	19	"	20	19
7	−1	√1	"	4	9
9	9	√9	"	19	√9
12	−2	12	"	7	4
14	9	34	"	19	34
17	−2	33	"	7	27
19	9	17	"	19	17
22	−2	√3	"	7	7
24	4	√6	"	10	√6
29	4	3√	"	10	3√

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Ophiuchi. October. East. Time.

Oct. 1.	5h	8.3	to	9h	38.3
4.	13	39.1	"	10	9.1
7.	9	46.9	"	14	16.9
6.	5	56.6	"	10	26.6
10.	10	33.1	"	15	3.1
11.	6	40.8	"	11	10.8
15.	11	19.4	"	15	49.4
16.	7	27.1	"	11	57.1
19.	3	34.8	"	8	4.8
20.	12	5.6	"	16	35.6
21.	8	13.3	"	12	43.3
22.	4	21.0	"	8	51.0
25.	12	51.9	"	17	21.9
26.	8	59.6	"	13	29.6
29.	5	7.3	"	9	37.3
30.	13	30.1	"	18	8.1
31.	9	45.8	"	14	15.8

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

4 Cygni. October. East. Time.

Oct	1	7	14.5	to	15	14.5
	2	10	38.8	"	18	38.8
	4	7	9.4	"	15	9.4
	5	10	33.3	"	18	33.4
	7	7	4.3	"	15	4.3
	8	10	27.8	"	18	27.8
	10	6	59.3	"	14	59.3
	11	10	22.3	"	18	22.3
	13	6	54.2	"	14	54.2
	14	10	16.9	"	18	16.9
	16	6	49.1	"	14	49.1
	17	10	11.4	"	18	11.4
	19	6	44.0	"	14	44.0
	20	10	5.9	"	18	5.9
	22	6	39.0	"	14	39.0
	23	10	0.4	"	18	0.4
	25	6	33.9	"	14	33.9
	26	9	54.9	"	17	54.9
	28	6	28.8	"	14	28.8
	29	9	49.4	"	17	49.4
	31	6	23.7	"	14	23.7

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Z Hercules. October. East. Time.

Oct	2	6	12.3	to	12	42.3	p
	4	6	8.3	"	10	8.3	s
	6	6	0.8	"	12	30.8	p
	8	5	56.8	"	9	56.8	s
	10	5	49.4	"	12	19.4	p
	12	5	45.3	"	9	45.3	s
	14	5	37.8	"	12	7.8	p
	16	5	33.8	"	9	33.8	s
	18	5	26.3	"	11	56.3	p
	20	5	22.3	"	9	22.3	s
	22	5	14.8	"	11	44.8	p
	24	5	10.8	"	9	10.8	s
	26	5	3.3	"	11	33.3	p
	28	4	59.3	"	8	59.3	s
	30	4	57.8	"	11	21.8	p

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

β Persei. November. East. Time.

Nov.	3.	2h	53m	to 10h	53m
	6.	5	51	" 15	51
	9.	2	30	" 12	30
	12.	-0	51	" 9	19
	20.	13	46	" 23	46
	23.	10	35	" 20	35
	26.	7	24	" 17	24
	29.	4	13	" 14	13

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

ν Tauri. November. East. Twin.

Nov.	11.	13h	40m	to. 23h	40m
	15.	12	32	" 22	32
	19.	11	24	" 21	24
	23.	10	17	" 20	17
	27.	9	9	" 19	9

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

N Cancri. Argelander. East Time.

Nov. 3. $-0^h\ 3^m$ to $13^h\ 27^m$
12. 3 3 " (+1 " Nov. 13)
22. -0 57 " 12 53

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Coronae. Nov. 1896. East. Limit.

Nov.					
1.	0^h	17^m	to	18^h	48^m
4.	9	17	"	19	39
8.	3	12	"	6	30
11.	7	39	"	17	21
14.	17	21	"	17	3
25.	3	14	"	12	46
28.	13	17	"	23	37

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Cephei. November. East. Time.

Nov. 3.	4^h	$1\frac{1}{2}^m$	to	16^h	$1\frac{1}{2}^m$
4.	7	$\frac{1}{2}$	"	17	$\frac{1}{2}$
13.	7	33	"	17	33
14.	7	12	"	17	12
23.	6	$\frac{1}{2}$	"	16	$\frac{1}{2}$
24.	6	30	"	16	30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

A Can. Proj. Observator. Ent. Time.

Nov. 1.	4h	32m	to	13h	32m	
2.	11	56	"	16	56	<
3.	15	10	"	20	10	<
~~5.~~	~~5~~	~~34~~	"	~~0~~	~~34~~	
~~6.~~						
7.	0	57	"	5	57	<
8.	4	13	"	9	13	<
9.	7	29	"	12	29	<
10.	10	44	"	15	44	<
11.	14	0	"	19	0	<
~~12.~~						
~~14.~~						
~~15.~~						
16.	3	3	"	8	3	<
17.	6	19	"	11	19	<
18.	9	35	"	14	35	<
19.	12	51	"	17	51	<
20.	16	6	"	21	6	<
~~22.~~						
~~23.~~						
24.	1	54	"	6	54	<
25.	5	10	"	10	10	<
26.	8	22	"	13	22	<
27.	11	41	"	16	41	<
28.	14	57	"	19	57	<
~~30.~~						

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4410

γ Cygni: November. East. Time.

Nov. 1.	9h	43.9m	to	17h	43.9m
3.	6	18.6	"	14	18.6
5.	9	38.5	"	17	38.5
7.	9	32.9	"	17	32.9
9.	6	13.7	"	14	13.7
10.	9	27.5	"	17	27.5
11.	6	8.5	"	14	8.5
13.	9	21.9	"	17	21.9
14.	6	3.3	"	14	3.3
16.	9	16.5	"	17	16.5
17.	7	7 8.2	"	13	7 8.2
19.	9	10.9	"	17	10.9
20.	7	7 3.1	"	13	7 3.1
22.	9	7.5	"	17	7.5
23.	7	5 8.0	"	13	5 8.0
25.	8.	7 9.9	"	16	7 9.9
26.	7	5 2.9	"	13	5 2.9
28.	8	7 5.5	"	16	7 5.5
29.	7	37.8	"	13	37.8

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Prin. Minima.

Z Herculis. November. East. Time.

Nov.	3	4h	37m	to 11h	13m
	7	4	26	" 11	2
	11	4	14	" 10	50
	15	4	3	" 10	39
	19	3	51	" 10	27
	23	3	40	" 10	16
	27	3	28	" 10	4

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

β Persei. 1895. East Time.

		hrs	m		hrs	m
December	2d	1	11.0	to	11	11.0
"	5	-2	10.0	"	7	50.0
"	13	12	17	"	22	17
"	16	9	6	"	19	6
"	19	5	55	"	15	55
"	22	2	44	"	12	44
"	25	-0	27	"	9	33

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

λ Tauri December 1895 East Time

	d	hrs	m		d	hrs	m
December	1	8	1	to	18	1	
"	5	6	53	"	16	5	53
"	9	5	45	"	15	5	45
"	13	4	38	"	14	4	38
"	17	3	30	"	13	3	30
"	21	2	22	"	12	2	22
"	25	1	14	"	11	1	14
"	29	0	6	"	10	0	6

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

S Cancri. December 1895. East Time.

December	1	2	50	to	1	0	20
"	11	−9	32	"	11	58	
"	20	2	6	"	23	36	
"	30	−10	16	"	11	14	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Coronae. December 1895. East Time.

	d	hrs	m			
December	2	0	46	to	10	28
"	5	11	37	"	21	19
"	9	−1	32	"	8	10
"	12	9	19	"	19	1
"	16	−3	50	"	5	52
"	19	7	1	"	16	43
"	26	4	43	"	14	25

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Cephei. December 1895. East Time.

	d	hrs	m	to	hrs	m
December	3	6	10	to	16	10
"	8	5	49	"	15	49
"	13	5	28	"	15	28
"	18	5	7	"	15	7
"	23	4	46	"	14	46
"	28	4	26	"	14	26

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.4440

R. Can. Maj: December 1895. East. Time.

	d	hrs	m s		h	m s
December	3	3	59.8	to	8	59.8
"	4	7	16	"	12	16
"	5	10	31	"	15	31
"	6	13	47	"	18	47
"	11	2	50	"	7	50
"	12	6	6	"	11	6
"	13	9	22	"	14	22
"	14	12	38	"	17	38
"	15	15	53	"	20	53
"	19	1	40	"	6	40
"	20	4	56	"	9	56
"	21	8	12	"	13	12
"	22	11	28	"	16	28
"	23	14	44	"	19	44
"	27	0	31	"	5	31
"	28	3	47	"	8	47
"	29	7	2	"	12	2
"	30	10	18	"	15	18
"	31	13	34	"	18	34

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

η Cygni. December 1895. East. Time.

	d	hs	m		hs	m
December	1	8	49	Ĝ	16	49
"	3	5-	28	"	13	28
"	4	8	44	"	16	44
"	6	5-	23	"	13	23
"	7	8	38	"	16	38
"	9	5-	18	"	13	18
"	10	8	32	"	16	32
"	12	5-	13	"	13	13
"	13	8	27	"	16	27
"	15-	5-	8	"	13	8
"	16	8	22	"	16	22
"	18	5-	2	"	13	2
"	19	8	16	"	16	16
"	21	4	57	"	12	57
"	22	8	11	"	16	11
"	24	4	52	"	12	52
"	25-	8	5-	"	16	5-
"	27	4	47	"	12	47.2
"	28	8	0	"	16	0
"	30	4	42	"	12	42
"	31	7	54	"	15-	54

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Cephei: January 1896. East. Limit

Jan.	2.	4h	v− to	1h	v−
	7.	3	44	"	13 44
	12.	3	23	"	13 23
	17.	3	3	"	13 3
	22.	2	42	"	12 42
	29.	2	21	"	12 21

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae..proj..4440

β Persei: January 1896. East. Time.

Jan. 2.	13h	59m	to	23h	59m
5.	10	48.	"	20	48
8.	7	37.	"	17	37
11.	4	26.	"	14	26
14.	1	15.	"	11	15
17.		4.	"	8	4
20.		53.	"	4	52
22.	15	41	"		41.
25.	12	30	"	22	30
28.	9	19	"	19	19
31.	6	8	"	16	8

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

ν Tauri. January 1896. East. Line.

Jan.	2.	T.	to	a^{+} νa^{-}
	6.	T.	"	7 ν o
	10.	T.	"	6 K3
	14.	T.	"	ν^{-} 3ν
	25.	16^{+}	11^{-} "	T.
	29.	ν^{-}	3 "	T.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

v

S Cancri. January 1896. Eastern Time.

Jan 2. 1h 21m to 22h 41m
Jan. 17. 12 59 " Jan. 18 10h 29m
Jan. 27. 0 37 " Jan. 27. 22 ?

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Coronae. January 1896. East. Time.

Jan. 2.	2h	26m	to	12h	8m
5.	13	17	"	22	59
9.	0	8	"	9	50
12.	10	59	"	20	41
16.		7.	"	7	32
19.	8	41	"	18	23
26.	6	23	"	16	5

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae..proj..4440

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Cephei. February 1896. East. Limit.

Feb. 3	13h	50m	to	23h	50m
6	1	39	"	11	39
8	13	29	"	23	29
11	1	19	"	11	19
13	13	8	"	23	8
16	-0	2	"	10	52
18	12	47	"	22	47
21	0	37	to	10	37
23	12	27	"	22	27
26	0	16	"	10	16
28	12	6	"	22	6

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae..proj..4440

U Cephei. March. 1896. East. Time.

Mar.	2.	−0h	9m	to	9h 9m
	4.	11	49	"	21 49
	7.	−0	29	"	9 39
	9.	11	29	"	21 29
	12.	−0	49	"	9 19
	14.	11	39	"	21 39
	17.	−1	9	"	8 59
	19.	10	43	"	20 43
	22.	−1	29	"	8 39
	24.	10	22	"	20 22
	27.	−1	49	"	8 19
	29.	10	1	"	20 1

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

B Persei. March. East. Inis.

March 8.	12^h	$K3^m$	to	22^h	$K3^-$
11.	9	32	"	19	32
14.	6	21	"	16	21
17.	3	10	"	13	10
20.	−0	1	"	9	V9
29.	1K	26	"	2K	26
31.	11	1K	"	21	1K

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

ν Cancri. March. East. Time.

March V. -0^h V 2^m to 20^h 3^m
" 14. 10 4V " 2 1V (Incr. V.)
" 24. −1 37 " 19 V3

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

U Cornae. March. East. Time.

March 10.	9h	44m	to	15h	26m
11.	3	26	"	13	8
15.	15	29	"	0	9 (Mar. 16)
18.	1	9	"	10	51
21.	12	0	"	21	42
25.	−1	9	"	8	33
28.	9	42	"	19	24

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

χ Tauri: March. Eat. Time:

March	1.	6^h	1^m	16^h	1^m
	5.	5	53	"	15	53
	9.	3	45	"	13	45
	13.	2	37	"	12	37
	17.	1	30	"	11	30
	21.	0	22	"	10	22
	25.	−0	46	"	9	14
	29.	−1	53	"	8	7

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. β Persei. April. East Time.

	d	hrs	m		hrs	m
April	3.	8	03	G	18	03
	6.	4	52	"	14	52
	9.	1	41	"	11	41
	12.	−1	30	"	8	30
	20.	12	57	"	22	57
	23.	9	46	"	19	46
	26.	6	34	"	16	34
	29.	3	33	"	13	33

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 S Cancri April East Time.

	d	h	m		h	m
April	3	−13	59	to	7	31
	12	−2	21	"	19	09
	22	−14	44	"	6	46

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. *δ Librae.* *April.* *East Time.*

	d	h	m		h	m
April	2	-2	54	6	9	6
	4	4	58	"	16	58
	6	12	49	"	24	49
	9	-3	20	"	8	40
	11	4	32	"	16	32
	13	12	23	"	24	23
	16	-3	45	"	8	15
	18	4	6	"	16	6
	20	11	57	"	23	57
	23	-4	11	"	7	49
	25	3	40	"	15	40
	27	11	31	"	23	31
	30	-4	37	"	7	23

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 U Coronae. April. East Time.

	d	h	m		h	m
April	4	7	24	Gr	17	6
	11	5	6	"	14	48
	18	2	48	"	12	30
	21	13	39	"	23	21
	25	0	30	"	10	12
	28	11	21	"	21	03

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. *U Cephei. April. East Time.*

	d	h	m		h	m
April	3.	9	40	to	19	40
	8.	9	20	"	19	20
	13.	8	59	"	18	59
	18.	8	38	"	18	38
	23.	8	17	"	18	17
	28.	7	56	"	17	56

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 — U Ophiuchi. — April — East Time.

	d	hrs	m			
April.	2	17	25.7	G	21	55.7
	3	13	33.4	"	18	3.4
	4	9	41.1	"	14	11.1
	5	5	48.9	"	10	18.9
	8	14	19.7	"	18	49.7
	9	10	27.4	"	14	57.4
	10	6	35.1	"	11	5.1
	12	18	58.2	"	23	28.2
	13	15	5.9	"	19	35.9
	14	11	13.7	"	15	43.7
	15	7	21.4	"	11	51.4
	16	3	29.1	"	7	59.1
	18	15	52.2	"	20	22.2
	19	11	59.1	"	16	29.9
	20	8	7.6	"	12	37.6
	21	4	15.3	"	8	45.3
	23	15	38.5	"	21	8.5
	24	12	46.2	"	17	16.2
	25	8	53.9	"	13	23.9
	26	5	1.6	"	9	31.6
	27	21	17.0	"	25	47.0
	28	17	24.7	"	21	54.7
	29	13	32.4	"	18	2.4
	30	9	40.1	"	14	10.1

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 R Cam. Maj. April. East Time.

	d	h	m		h	m
April	1	13	51.1	to	18	51.1
	6	2	54.1	"	7	54.1
	7	6	9.9	"	11	9.9
	8	9	25.7	"	14	25.7
	9	12	41.4	"	17	41.4
—	10	15	57.2	"	20	57.2
—	11	19	13.0	"	24	13.0
	15	5	0.3	"	10	0.3
	16	8	16.0	"	13	16.0
	17	11	31.8	"	16	31.8
	18	14	47.6	"	19	47.6
	23	3	50.6	"	8	50.6
	24	7	6.4	"	12	6.4
	25	11	22.2	"	16	22.2
	26	13	37.9	"	18	37.9
—	27	16	53.7	"	21	53.7
	31	2	41.0	"	7	41.0

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 Y Cygni April. East. Time.

April 1	d	h 2	m 4.6	G	h 10	m 4.6	Gerade
2		5	3.9	"	13	3.9	Ungerade
4		1	5 9.5	"	9	5 9.5	G
5		4	5 8.4	"	12	5 8.4	U
7		1	5 3.5	"	9	5 3.5	G
8		4	52.9	"	12	5 2.9	U
10		1	49.4	"	9	49.4	G
11		4	47.5	"	12	47.5	U
13		1	44.3	"	9	44.3	G
14		4	42.0	"	12	42.0	U
16		1	39.2	"	9	39.2	G
17		4	36.5	"	12	36.5	U
19		1	34.2	"	9	34.2	G
20		4	31.0	"	12	31.0	U
22		1	29.1	"	9	29.1	G
23		4	25.5	"	12	25.5	U
25		1	24.0	"	9	24.0	G
26		4	20.0	"	12	20.0	U
28		1	18.9	"	9	18.9	G
29		4	14.5	"	12	14.5	U

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Wells Variable

1896. BD +17° 4367 East Time.

		h	m		h	m
April	5	10	38	6	22	38
	10	5	09	"	17	09
	15	1	20	"	13	20
	20	−3	18	"	8	42
	29	11	24	"	23	24

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 δ Librae May East Time.

	d	h	m		h	m
May	2	3	14 <	G	15	14 <
	4	11	6 <	"	23	6 <
	9	2	48	"	14	48 <
	11	10	40	"	22	40 <
	16	2	23 <	"	14	23 <
	18	10	14 <	"	22	14 <
	23	1	57 <	"	13	57 <
	25	9	48	"	21	48 <
	30	1	31	"	13	31 <

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Coronae. May. East Time.

	d	h	m		h	m	
May	5	9	03	< 6	18	40	<
	12	6	40	< "	16	27	<
	19	4	27	< "	14	09	<
	26	2	09	< "	11	51	<
	29	13	50	< "	22	42	<

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 U Cephei. May East Time.

	d	h	m		h	m	
May	3	7	35	6	17	35	<
"	8	7	10	"	17	10	<
	13	6	54	"	16	54	<
	18	6	33	"	16	33	<
	23	6	12	"	16	12	<
	28	5	51	"	15	51	<

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 U Ophiuchi. May. East. Time.

	d	h	m		h	m	
May	4	14	18.9 <	60	18	48.9 <	—
	5	10	26.7 <	"	14	56.7 <	—
	6	6	34.4 <	"	11	4.4 <	—
	7	2	42.1	"	7	12.1 <	
	9	15	57.2 <	"	19	35.2 <	
	10	11	12.9 <	"	15	42.9 <	—
	11	7	20.6 <	"	11	50.6 <	—
	12	3	28.3 <	"	7	58.3 <	
	14	15	51.5 <	"	20	21.5 <	
	15	11	59.2 <	"	16	29.2 <	—
	16	8	6.9 <	"	12	36.9 <	—
	17	4	14.6 <	"	8	44.6 <	—
	19	16	37.7 <	"	21	7.7 <	
	20	12	45.4 <	"	17	15.4 <	—
	21	8	53.1 <	"	13	23.1 <	—
	22	5	0.8 <	"	9	30.8 <	—
	25	13	31.7 <	"	18	1.7 <	—
	26	9	39.4 <	"	14	9.4 <	—
	27	5	47.1 <	"	10	17.1 <	—
	30	14	17.9	"	18	47.9 <	—

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. R Can Maj: May. East Time.

	d	h	m		h	m
May	2	5	53.7	6	10	53.7
	3	9	9.5	"	14	9.5
	4	12	25.3	"	17	25.3
	5	15	41.0	"	20	41.0
	10	4	44.1	"	9	44.1
	11	7	59.9	"	12	59.9
	12	11	15.6	"	16	15.6
	13	14	31.4	"	19	31.4
	18	3	34.5	"	8	34.5
	19	6	50.2	"	11	50.2
	20	10	6.0	"	15	6.0
	21	~~12~~	21.8	"	~~17~~	21.8
	26	2	24.8	"	7	24.8
	27	5	40.6	"	10	40.6
	28	8	56.4	"	13	56.4
	29	12	12.1	"	17	12.1
	30	15	27.9	"	20	27.9

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Cygni. May. East. Time.

	d	h	m		h	m	
May	1	1	13.8 <	6	9	13.8 <	G
	2	4	9.0 <	"	12	9.0 <	H
	4	1	8.7 <	"	9	8.7 <	G
	5	4	3.5 <	"	12	3.5 <	H
	7	1	3.7 <	"	9	3.7 <	G
	8	3	58.0 <	"	11	58.0 <	H
	10	0	58.6 <	"	8	58.6 <	G
	11	3	52.6 <	"	11	52.6 <	H
	13	0	53.5 <	"	8	53.5 <	G
	14	3	47.1 <	"	11	47.1 <	H
	16	0	48.4 <	"	8	48.4 <	G
	17	3	41.6 <	"	11	41.6 <	H
	19	0	43.4 <	"	8	43.4 <	G
	20	3	36.1 <	"	11	36.1 <	H
	22	0	38.3 <	"	8	38.3 <	G
	23	3	30.6 <	"	11	30.6 <	H
	25	0	33.1 <	"	8	33.1 <	G
	26	3	25.1 <	"	11	25.1 <	H
	28	0	28.0 <	"	8	28.0 <	G
	29	3	19.6 <	"	11	19.6 <	H
	31	0	22.9 <	"	8	22.9 <	G

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Wells Variable. (Algol)

1896. B.D. +17° 4367 May East Time

	d	h	m		h	m
May	4	6	45 <	Co	18	45 <
	9	2	06 <	"	14	06 <
	14	−2	32 <	"	9	28 <
	23	12	10 <	"	24	10 <
	28	7	31 <	"	19	31 <

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. *S Cancri.* *May East Time*

	d	h	m		h	m
May	1	− 3	4	to	18	24
	11	− 15	28	"	6	02
	20	− 3	00	"	17	40
	29	7	47	"	29	17

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 β Persei June, East Time.

June 28^{d} 2^{h} 30^{m} to 18^{h} 30^{m}

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. *S Cancri* *June, East Time.*

June	5	d	−	4	h 35	m	6
	17			7	3	"	28
	27			−5	19	"	16

h m
55
33
11

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. δ Librae June, East Time.

	d	h	m		h	m
June	1	9	22	Co	21	22
	6	1	5-	"	13	5-
	8	8	56	"	20	56
~~11~~	~~—7~~	~~12~~	"	~~4~~	~~48~~	
	13	0	39	"	12	39
	15-	8	30	"	20	30
~~18~~	~~—7~~	~~38~~	"	~~4~~	~~22~~	
	20	0	13	"	12	13
	22	8	5-	"	20	5-
	27	—0	13	"	11	47
	29	7	39	"	19	39

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 U Coronae June. East Time

	d	h	m		h	m
June	2	0	9	G	9	33
	5	10	42	"	20	24
	12	8	25	"	18	7
	19	6	7	"	15	49
	26	3	49	"	13	31

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. δ Cephei June, East Time.

		h	m		h	m
June	2d	5	30	G.	15	30 G.
	7	5	10	"	15	10 "
	12	4	49	"	14	49 "
	17	4	28	"	14	28 "
	22	4	7	"	14	7 "
	27	3	46	"	13	46 "

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 H Oshiuchi. June, East Time.

	d	h	m		h	m
June	0	9	26	E	14	56
	1	6	33.7	"	11	3.7
	5	11	12.3	"	15	42.3
	6	7	20.0	"	11	50.0
	9	15	50.8	"	20	20.8
	10	11	58.5	"	16	28.5
	11	8	6.2	"	12	36.2
	12	4	13.9	"	8	43.9
	15	12	44.8	"	17	14.8
	16	8	52.5	"	13	22.5
	17	5	0.2	"	9	30.2
	20	13	31.0	"	18	1.0
	21	9	38.7	"	14	8.7
	22	5	46.4	"	10	16.4
	25	14	17.3	"	18	47.3
	26	10	25.0	"	14	55.0
	27	6	32.7	"	11	2.7

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. γ Cygni. June, East Time.

		h	m		h	m
June	1d	3	19.6	to	11	19.6
	4	3	14.1	"	11	14.1
	7	3	8.6	"	11	8.6
	10	2	57.7	"	10	57.7
	13	2	52.2	"	10	52.2
	16	2	46.7	"	10	46.7
	19	2	41.2	"	10	41.2
	22	2	35.7	"	10	35.7
	25	2	30.2	"	10	30.2
	28	2	24.7	"	10	24.7
	31	2	19.2	"	10	19.2

Ungerade Epochen

Gerade epoch of γ Cygni during June is in daylight.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. BD+17°4367 June, East Time.

	d	h	m		h	m
June	2,	2	52	Co	14	52
	7	−1	46	"	10	14
	16	12	57	"	24	57
	21	8	18	"	20	18
	26	3	39	"	15	39

Pleiades.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 β Persei July. East. Time.

July	1d	5h	19m	6h	15h 19m
	4	2	8	"	12 8
	7	-1	3	"	8 57
	10	13	23	"	23 23
	13	10	12	"	20 12
	21	7	1	"	17 1
	24	3	50	"	13 50
	27	0	39	"	10 39

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 λ Tauri July. East. Time.

	d	h	m		h	m
July	21	13	21	G	23	21
	25	12	13		22	13
	29	11	5		21	5

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae..proj..4440

1896 δ Librae July Eastern Time

	d				
July	4	−0	39	11	21
	6	7	13	19	13
	11	−1	4	10	06
	13	6	47	18	47
	18	−1	30	10	30
	20	6	21	18	21
	25	−1	06	10	4
	27	05	05	17	05

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj:4440

1896 U Coronae. July. East. Time.

	d	h	m			
July	3	1	31	Co	11	13
	6	12	22	"	22	4
	10	−0	7	"	8	55
	13	10	4	"	19	46
	20	7	46	"	17	28
	27	5	28	"	15	10

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Cephei. July, East. Time.

	d	h	m		h	m
July	2	3	26	G	13	26
	7	3	5	"	13	5
	12	2	44	"	12	44
	17	2	23	"	12	23
	~~20~~	~~9~~	~~47~~	"	~~0~~	~~13~~
	22	2	2	"	12	2
	24	13	52	"	23	52
	27	1	41	"	11	41
	29	13	31	"	23	31

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. H Ophiuchi July. East. Time.

	d	h	m		h	m
July	1	11	11.5	G	15	41.5
	2	7	19.2	"	11	49.2
	3	3	26.9	"	7	56.9
	6	11	57.8	"	16	27.8
	7	8	05.5	"	12	35.5
	8	4	13.2	"	8	43.2
	11	12	44.0	"	17	14.0
	12	8	51.7	"	13	21.7
	13	4	59.4	"	9	29.4
	16	13	30.3	"	18	0.3
	17	9	38.0	"	14	8.0
	18	5	45.7	"	10	15.7
	21	14	16.5	"	18	36.5
	22	10	24.2	"	14	54.2
	23	6	32.0	"	11	2.0
~~2~~	~~6~~	~~15~~	~~2.8~~	"	~~19~~	~~32.8~~
	27	11	10.5	"	15	40.5
	28	7	18.2	"	11	48.2
	29	3	25.9	"	7	55.9

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. Y Cygni July, East. Time.

		h	m		h	m	
July	1d	2	19.2	Gr	10	19.2	= Ungerade Epochen
	4	2	13.7	"	10	13.7	
	7	2	8.2	"	10	8.2	
	10	2	2.8	"	10	2.8	
	13	1	57.3	"	9	57.3	
	16	1	51.8	"	9	51.8	
	19	1	46.3	"	9	46.3	
	22	1	40.8	"	9	40.8	
	25	1	35.3	"	9	35.3	
	28	1	29.8	"	9	29.8	
	31	1	24.3	"	9	24.3	

Gerade Epochen of Y Cygni during July is in daylight.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Wells Variable = BD+47°4367

1896. July. Local Time

July	d	h	m		h	m
	1	-1	00	Co	11	00
~~6~~	~~-0~~	~~39~~	~~"~~	~~6~~	~~21~~	
~~11~~	~~-10~~	~~17~~	~~"~~	~~1~~	~~43~~	
	15	9	04	"	21	04
	20	4	25	"	16	25
	25	-0	14	"	11	46

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. BD +17° 4367. August. East. Time.

	d	h	m		h	m
August	4	−9	31	G	½	29
	8	9	50	"	21	50
	13	8	11	"	17	11
	18	0	32	"	12	32
	23	−4	07	"	7	53
	28	−8	45	"	3	15

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. β Persei. Capt. Sims.

	d	h	m		h	m	
August	7	11	54	to	21	54	<
	10	8	43	"	18	43	<
	13	5	32	"	15	32	<
	16	2	21	"	12	21	<
	19	−0	50	"	9	10	<
	27	13	37	"	23	37	<
	30	10	25	"	20	25	<

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. λ Tauri. East. Time.

	d	h	m		h	m	
August	2	9	57	6	19	57	<
	6	8	49	"	18	49	<
	10	7	41	"	17	41	<
	14	6	34	"	16	34	<
	18	5	26	"	15	26	<
	22	4	18	"	14	18	<
	26	3	10	"	13	10	<
	30	2	02	"	12	02	<

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. δ Librae East. Time.

	d	h	m		h	m
August	1	-2	22	G	9	38
	3	0	29	"	17	29
	5	13	21	"	20	31
	8	-2	48	"	9	12
	10	0	04	"	17	04
	12	12	00	"	24	00
	15	-3	14	"	8	46
	17	4	38	"	16	38
	19	12	29	"	24	29
	22	-3	20	"	8	20
	24	4	12	"	16	12
	26	12	03	"	24	03
	29	-4	00	"	7	56
	31	3	46	"	15	46

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Coronae East Time.

	d	h	m		h	m
August	3	3	10	G	12	52
	6	14	01	"	23	43
	10	0	52	"	10	34
	13	11	43	"	21	25
	17	-1	26	"	8	16
	20	9	25	"	19	07
	27	7	07	"	16	49

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj,.4440

1896. U Cephei East. Time.

	d	h	m		h	m
August	1	1	21	to	11	21
	3	13	10	"	23	10
	6	1	00	"	11	00
	8	12	49	"	22	49
	11	0	39	"	10	39
	13	12	29	"	22	29
	16	0	18	"	10	18
	18	12	08	"	22	08
	21	−0	03	"	9	57
	23	11	47	"	21	47
	26	−0	24	"	9	36
	28	11	26	"	21	26
	31	−0	44	"	9	16

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Ophiuchi. East Time.

	d	h	m		h	m
August	1	11	57	G	16	27
	2	8	05	"	12	35
	3	4	12	"	8	42
	6	12	43	"	17	13
	7	8	51	"	13	21
	8	4	59	"	9	29
	10	17	22	"	21	52
	11	13	30	"	18	00
	12	9	37	"	14	07
	13	5	45	"	10	15
	16	14	16	"	18	46
	17	10	24	"	14	54
	18	6	31	"	11	01
	22	11	10	"	15	40
	23	7	18	"	11	48
	24	3	25	"	7	55
	27	11	56	"	16	26
	28	8	04	"	12	34
	29	4	12	"	8	42

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. γ Cygni East. Line.

Ingrade Epochen.

				h	m
August	3d	1896	G	9	19
	6	1896	"	9	13
	9	1896	"	9	8
	12	1896	"	9	2
	15	1896	"	8	57
	18	1896	"	8	51
	21	1896	"	8	46
	24	1896	"	8	40
	27	1896	"	8	35
	30	1896	"	8	29

Amount of duration = 8 hrs 0 m

Grade Epochen this month is in daylight.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. β Persei. September. East. time.

	d	h	m		h	m
September	2	7	14	Gr	17	14
	5	4	3	"	14	3
	8	0	52	"	10	52
	11	~~-4~~ 3	19	"	7	41
	17	~~-10~~ 8	41	"	1	19
	19	12	8	"	22	8
	22	8	57	"	18	57
	25	5	46	"	15	46
	28	2	34	"	12	34

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. λ Tauri. September. East Time

	d	h	m		h	m
September	3	0	55	6	10	55
	7	-0	13	"	9	47
	11	-1	21	"	8	39
	15	-2	29	"	7	31

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. S Cancri. September, Eastern Time.

	d	h	m		h	m
September	1	4	5	6	20	30
	11	−8	17	"	13	13
	20	3	20	"	24	50
	30	−9	2	"	12	28

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. δ Librae. September. Earth Time.

	d	h	m		h	m
September	2	11	37	G	23	37
	7	3	20	"	15	20
	9	11	11	"	23	11
	14	2	54	"	14	54
	16	10	26	"	22	46
	21	2	28	"	14	28
	23	10	20	"	22	20
	28	2	3	"	14	3
	30	9	54	"	21	54

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Coronae September Eastern Time

	d	h	m		h	m
September	3	4	19	to	14	31
	10	2	32	"	12	14
	13	3	23	"	23	5
	17	0	14	"	9	56
	20	11	5	"	20	47
	24	−2	4	"	7	38
	27	8	47	"	18	29

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Cephei. September. Eastern Time.

	d	h	m		h	m
September	2	11	50	G.M.T.	21	50
	5	−1	50	"	8	50
	7	10	44	"	20	44
	10	−1	26	"	8	34
	12	10	24	"	20	24
	15	−1	47	"	8	13
	17	10	3	"	20	3
	20	−2	8	"	7	52
	22	9	42	"	19	42
	25	−2	28	"	7	32
	27	9	21	"	19	21
	30	−2	49	"	7	11

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Ophiuchi. September Eastern Time.

	d	h	m		h	m
September	1	12	42.7	to	17	12.7
	2	8	5-0.4	"	13	20.4
	3	4	5-8.1	"	9	28.1
	6	13	29.0	"	17	59.0
	7	9	36.7	"	14	6.7
	8	5	44.4	"	10	14.4
	11	14	10-.2	"	18	40-.2
	12	10	22.9	"	14	5-2.9
	13	6	30.6	"	11	0.6
	16	15-	1.5-	"	19	31.5-
	17	11	9.2	"	15-	39.2
	18	7	16.9	"	11	46.9
	19	3	24.6	"	7	5-4.6
	21	15-	47.7	"	20	17.7
	22	11	5-5.4	"	16	25.5-
	23	8	3.2	"	12	33.2
	24	4	10.9	"	8	40.9
	25	12	41.7	"	17	4.7
	28	8	49.4	"	13	19.4
	29	4	5-7.1	"	9	27.1

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 γ Cygni. September East Time.

Ungerade Epochen.

	d	h	m		h	m
September	2	0	23.9	G.M.T.	8	23.9
	5	0	18.4	"	8	18.4
	8	0	13.0	"	8	13.0
	11	0	7.5	"	8	7.5
	14	0	2.0	"	8	2.0
	17	− 0	3.5	"	7	56.5
	20	− 0	9.0	"	7	51.0
	23	− 0	14.5	"	7	45.5
	26	− 0	20.0	"	7	40.0
	29	− 0	25.5	"	7	34.5

Gerade Epochen in daylight.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. B.D.+17°4367. September. Earth Time.

	d	h	m		h	m
September	1	10	36	G	22	36
	6	5	57	"	17	57
	11	1	19	"	13	19
	16	−3	20	"	8	40
	20	11	22	"	23	22
	30	6	43	"	18	43

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. BD +17°4367 October. East. Time.

	d	h	m		h	m
October	5	2	05	6	14	05
	10	−2	34	"	9	26
~~10~~	~~−~~	~~7~~	~~13~~	~~"~~	~~4~~	~~47~~
	19	12	08	"	24	08
	24	7	29	"	19	29
	29	2	51	"	14	51

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. B Persei. October East Time

	d	h	m		h	m
October	1	−0	37	Gr	9	23
	9	13	50	"	23	50
	12	10	39	"	20	39
	15	7	28	"	17	28
	18	4	17	"	14	17
	21	1	6	"	11	6
	24	−2	5	"	7	55

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.14440

1896. λ Tauri. October Eastern Time.

	d	h	m		h	m
October	9	9	16	5	0	44
	12	13	37	"	23	37
	16	12	29	"	22	29
	20	11	21	"	21	21
	24	10	13	"	20	13
	28	9	5	"	19	5

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. N. Cancri. October. East. Time.

	d	h	m			
October	9	2	36	60	24	6
	19	-9	46	"	11	44
	28	1	51	"	23	21

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Coronae. October. East. Time.

	d	h	m		h	m
October	4	6	29	5	16	11
	11	4	11	"	13	53
	15	−8	58	"	0	4K
	18	1	53	"	11	30
	21	12	4K	"	22	26
	25	−0	25	"	9	17
	28	+10	26	"	20	08

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Cephei October Eccl. Time.

	d	h	m		h	m
October	2	9	0	G	19	0
	7	8	39	"	18	39
	12	8	19	"	18	19
	17	7	58	"	17	58
	22	7	37	"	17	37
	27	7	16	"	17	16

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 U Ophiuchi October. East. Time.

October	d	h	m		h	m
	2	13	28.3	G	17	58.3
	3	9	36.0	"	14	6.0
	4	5	43.7	"	10	13.7
	5	1	51.5	"	6	21.5
	7	14	14.6	"	18	44.6
	8	10	22.3	"	14	52.3
	9	6	30.0	"	11	0.0
	10	2	37.7	"	7	7.7
	12	15	0.8	"	19	30.8
	13	11	8.5	"	15	38.5
	14	7	16.3	"	11	46.3
	15	3	24.0	"	7	54.0
	17	15	47.1	"	20	17.1
	18	11	54.8	"	16	24.8
	19	8	2.5	"	12	32.5
	20	4	10.2	"	8	40.2
	22	16	33.4	"	21	3.4
	23	12	41.1	"	17	11.1
	24	8	48.8	"	13	18.8
	25	4	56.5	"	9	26.5
	27	17	19.6	"	21	49.6
	28	13	27.3	"	17	57.3
	29	9	35.0	"	14	5.0
	30	5	42.7	"	10	12.7

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. R Can Maj October East. Time.

	d	h	m		h	m
October	0	7	53.7	G	12	53.7
	1	11	9.5	"	16	9.5
	2	14	25.2	"	19	25.2
	3	17	41.0	"	22	41.0
	7	3	28.3	"	8	28.3
	8	6	44.1	"	11	44.1
	9	9	59.8	"	14	59.8
	10	13	15.6	"	18	15.6
	11	16	31.4	"	21	31.4
	15	2	18.7	"	7	18.7
	16	5	34.4	"	10	34.4
	17	8	50.2	"	13	50.2
	18	12	6.0	"	17	6.0
	19	15	21.7	"	20	21.7
	24	4	24.8	"	9	24.8
	25	7	40.6	"	12	40.6
	26	10	56.3	"	15	56.3
	27	14	12.1	"	19	12.1
	28	17	27.9	"	22	27.9

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 BD+17°4367 November, Each Time

November	d	h	m		h	m
	3	-1	48	6	10	12
	12	12	57	"	24	57
	17	8	10	"	20	10
	22	3	37	"	10	37
	27	-1	2	"	10	58

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 β Persei. Cash Line.

	d	h	m			
November	1	12	21	G	22	21
	4	9	10	"	19	10
	7	5	59	"	15	59
	10	2	48	"	12	48
	13	-0	23	"	9	37
	16	-3	35	"	6	25
	22	-9	07	"	0	3
	24	10	02	"	20	02
	27	7	41	"	17	41
	30	4	30	"	14	30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. λ Leonis Eastn. Time.

November	1d	7h	58m	6s	17h	58m
	5	6	50	"	16	50
	9	5	42	"	15	42
	13	4	34	"	14	34
	17	3	26	"	13	26
	21	2	19	"	12	19
	25	1	11	"	11	11
	29	0	3	"	10	3

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

S Cancri. Cash Time.

November	7^d	− 10^h	31^m	6	10^h	0^m	9
	16	1	7	"	22	37	
	26	−11	15	"	10	15	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj,.4440

1896. U Coronae East Time.

November	4	8	8	17	50
	11	5	50	15	32
	18	3	32	13	14
	22	−9	37	0	05
	25	1	14	10	56
	28	12	5	21	47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. μ Cephei. East Line.

	d	h	m		h	m
November	1	6	55	6	16	55
	6	6	35	"	16	35
	11	6	14	"	16	14
	16	5	53	"	15	53
	21	5	32	"	15	32
	26	5	11	"	15	11

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. 61 Ophiuchi. Local Time.

November	2d	14h	13.9m	to	18h	43.9m
	3	10	21.6	"	14	51.6
	4	6	29.3	"	10	59.3
	5	2	37.1	"	7	7.1
	7	15	0.2	"	19	30.2
	8	11	7.9	"	15	37.9
	9	7	15.6	"	11	45.6
	10	3	23.3	"	7	53.3
	12	15	46.4	"	20	16.4
	13	11	54.1	"	16	24.1
	14	8	1.9	"	12	31.9
	15	4	9.6	"	8	39.6
	18	12	40.4	"	17	10.4
	19	8	48.1	"	13	18.1
	20	4	55.8	"	9	25.8
	23	13	26.7	"	17	56.7
	24	9	34.4	"	14	4.4
	25	5	42.1	"	10	12.1
	26	1	49.8	"	6	19.8
	28	14	12.9	"	18	42.9
	29	10	20.6	"	14	50.6
	30	6	28.3	"	10	58.3

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae..proj..4440

1896. R Canis Majoris. East Time.

	h	m		h	m
November 1d	3	15.2	G	8	15.2
2	6	30.9	"	11	30.9
3	9	46.7	"	14	46.7
4	13	2.5	"	18	2.5
5	16	18.2	"	21	18.2
9	2	5.5	"	7	5.5
10	5	21.3	"	10	21.3
11	8	37.1	"	13	37.1
12	11	52.8	"	16	52.8
13	15	8.6	"	20	8.6
18	4	11.7	"	9	11.7
19	7	27.4	"	12	27.4
20	10	43.2	"	15	43.2
21	13	59.0	"	18	59.0
26	3	2.0	"	8	2.0
27	6	17.8	"	11	17.8
28	9	33.6	"	14	33.6
29	12	49.3	"	17	49.3
30	16	5.1	"	21	5.1

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 BD +17°4367 East Time.

December $2^d - 5^h\ 41^m$ to $6^h\ 19^m$

~~7 - 10 20 " 1 40~~

11 9 1 " 21 1

16 4 23 " 16 23

21 - 0 16 " 11 44

26 - 4 54 " 7 6

~~31 - 9 33 " 2 27~~

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. β Persei East Time.

	d	h	m		h	m
December	3	1	19	6	11	19
	6	−1	52	"	8	8
	14	12	34	"	22	34
	17	9	23	"	19	23
	20	6	12	"	16	12
	23	3	1	"	13	1
	26	−0	10	"	9	50
	29	−3	21	"	6	39

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.4440

1896. λ Tauri. East Time.

December	3	−1	5 m	6 h	55 m
	7	−2	13 "	7	47
	11	−3	20 "	6	40

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896 δ Librae. East Time.

		h	m		h	m
December	2d	6	1	G	18	1
	5	−10	7	"	1	53
	7	− 2	16	"	9	44
	9	5	35	"	17	35
	12	−10	33	"	1	27
	14	− 2	42	"	9	18
	16	5	9	"	17	9
	19	−10	59	"	1	1
	21	− 3	8	"	8	52
	23	4	44	"	16	44
	25	12	35	"	24	35
	28	− 3	34	"	8	26
	30	4	18	"	16	18

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.14440

1896. U Coronae. East. Time.

December	2d	-1h	4m	to	8h	38m
	5	9	48	"	19	30
	9	-3	21	"	6	21
	12	7	00	"	17	12
	19	5	12	"	14	54
	23	-7	57	"	1	45
	26	2	54	"	12	36
	29	13	45	"	23	27
	33	0	36	"	10	18

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Cephei. Epoch Time.

December	1d	4h	50m	G	14h	50m
	6	4	30	"	14	30
	11	4	9	"	14	9
	16	3	48	"	13	48
	21	3	27	"	13	27
	26	3	6	"	13	6
	31	2	46	"	12	46

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. R Canis Majoris. East Time.

	d	h	m		h	m
December	0	16	1.1	G	21	1.1
	4	1	48.4	"	6	48.4
	5	5	4.2	"	10	4.2
	6	8	19.9	"	13	19.9
	7	11	35.7	"	16	35.7
	8	14	51.5	"	19	51.5
	9	18	7.2	"	23	7.2
	12	0	38.8	"	5	38.8
	13	3	54.5	"	8	54.5
	14	7	10.3	"	12	10.3
	15	10	26.1	"	15	26.1
	16	13	41.8	"	18	41.8
	17	16	57.6	"	21	57.6
	21	2	44.9	"	7	44.9
	22	6	0.7	"	11	0.7
	23	9	16.4	"	14	16.4
	24	12	32.2	"	17	32.2
	25	15	48.0	"	20	48.0
	29	1	35.3	"	6	35.3
	30	4	51.0	"	9	51.0
	31	8	6.8	"	13	6.8

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1896. U Ophiuchi East Time.

	d	h	m		h	m
December	0	6	28.8	G.M.	10	58.8
	1	2	36.5	"	7	6.5
	3	14	59.6	"	19	29.6
	4	11	7.3	"	15	37.3
	5	7	15.1	"	11	45.1
	6	3	22.8	"	7	52.8
	8	15	40.9	"	20	15.9
	9	11	53.6	"	16	23.6
	10	8	1.3	"	12	31.3
	11	4	9.0	"	8	39.0
	13	16	32.1	"	21	2.1
	14	12	39.9	"	17	9.9
	15	8	47.6	"	13	17.6
	16	4	55.3	"	9	25.3
	17	1	3.0	"	5	33.0
	18	17	18.4	"	21	48.4
	19	13	26.1	"	17	56.1
	20	9	33.8	"	14	3.8
	21	5	41.5	"	10	11.5
	22	1	49.2	"	6	19.2
	23	18	4.7	"	22	34.7
	24	14	12.4	"	18	42.4
	25	10	20.1	"	14	50.1
	26	6	27.8	"	10	57.8
	27	2	35.5	"	7	5.5
	28	18	50.9	"	23	20.9
	29	14	58.6	"	19	28.6
	30	11	6.3	"	15	36.3

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. BD+17°4367 Earth Time

	d	h	m		h	m
January	4	9	47	=	21	47
	9	0	09	"	17	09
	14	0	30	"	12	30
	19	-4	08	"	7	0-2.
	23	10	12	"	27	12
	28	10	33	"	22	33

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. β Persei East Time.

	d	h	m		h	m
January	1	17	28	to	27	28 <
	3	14	16	"	24	16 <
	6	11	05	"	21	05 <
	9	7	54	"	17	54 <
	12	4	43	"	14	43 <
	15	1	32	"	11	32 <
	18	−1	39	"	8	21 <
	20	19	10	"	29	10 <
	23	15	59	"	25	59 <
	26	12	48	"	22	48 <
	29	9	37	"	19	37 <

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897 U Cephei. East Time.

	d	h	m		h	m
January	0	2	46	to	12	46
	5	2	21	"	12	21
	10	1	56	"	11	56
	15	1	31	"	11	31
	20	1	06	"	11	06
	25	0	41	"	10	41
	30	0	16	"	10	16

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897 R Cam Maj: East Time.

January	0	h 8	10.8	G	h 13	10.8
	1	11	26.6	"	16	26.6
	2	14	42.3	"	19	42.3
	3	17	58.1	"	22	58.1
	7	3	45.4	"	8	45.4
	8	7	1.2	"	12	1.2
	9	10	16.9	"	15	16.9
	10	13	32.7	"	18	32.7
	11	16	48.5	"	21	48.5
	15	2	35.8	"	7	35.8
	16	5	51.5	"	10	51.5
	17	9	7.3	"	14	7.3
	18	12	23.1	"	17	23.1
	19	15	38.8	"	20	38.8
	23	1	26.1	"	6	26.1
	24	4	41.9	"	9	41.9
	25	7	57.7	"	12	57.7
	26	11	13.4	"	16	13.4
	27	14	29.2	"	19	29.2
	28	17	45.0	"	22	45.0

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj,4440

1897 S Cancri East Time.

	d	h	m		h	m
January 7	2	31.	5	to	24	18
16	14	9.6	"	1	11	39.6
26	1	49.4	"		23	17.4

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897 λ Tauri. Cask Time.

	d	h	m		h	m
January	3	13	57.9	6	23	57.9
	7	12	42.8	"	22	42.8
	11	11	33.7	"	21	33.7
	15	10	24.6	"	20	24.6
	19	9	15.5	"	19	15.5
	23	8	6.4	"	18	6.4
	27	6	57.3	"	16	57.3
	31	5	48.2	"	15	48.2

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj .4440

1897. W Delphini. East Time.

	d	h	m		h	m
February	2	5	42	C	17	42
	7	1	3	"	13	3
	12	-3	36	"	8	24
	17	-8	15	"	3	45
	21	11	7	"	23	7
	26	6	28	"	18	28

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. μ Cephei. East Time.

	d	h	m		h	m	
February	1	12	30	"	22	30	
	4	0	20	"	10	20	
	6	12	9	"	22	9	
	9	−0	1	"	9	59	
	11	11	48	"	21	48	?
	14	−0	22	"	9	38	
	16	11	28	"	21	28	✓
	19	−0	43	"	9	17	
	21	11	7	"	21	7	
	24	−1	4	"	8	56	
	26	10	46	"	20	46	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj .4440

1897. β Persei. East Time.

	d	h	m		h	m
February	1	6	22	5	16	22
	4	3	11	"	13	11
	7	0	0	"	10	0
	10	−3	11	"	6	49
	15	14	27	"	24	27
	18	11	15	"	21	15
	21	8	4	"	18	4
	24*	4	53	"	14	53
	27	1	42	"	11	42

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae..proj..4440

1897. λ Tauri. East Time.

February	4d	4h	50m	G	14h	50m
	8	3	43	"	13	43
	12	2	35	"	12	35
	16	1	27	"	11	27
	20	0	19	"	10	19
	24	−0	48	"	9	12
	28	−1	56	"	8	4

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj,.4440

1897. R Canis Majoris. East. Time.

	d	h	m		h	m
February	1	3	32.3	G.M.T.	8	32.3
	2	6	48.0	"	11	48.0
	3	10	3.8	"	15	3.8
	4	13	19.6	"	18	19.6
	9	2	22.6	"	7	22.6
	10	5	38.4	"	10	38.4
	11	8	54.2	"	13	54.2
	12	12	9.9	"	17	9.9
	13	15	25.7	"	20	25.7
	18	4	28.8	"	9	28.8
	19	7	44.5	"	12	44.5
	20	11	0.3	"	16	0.3
	21	14	16.1	"	19	16.1
	26	3	19.1	"	8	19.1
	27	6	34.9	"	11	34.9
	28	9	50.7	"	15	50.7
	29	13	6.4	"	18	6.4

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae..proj..4440

1897. S Cancri. East. Time.

February 10d 1h 32m } = Gr. Times of minima.
" 19 13 9 }

February 9d 9h 47m = 9d 31h 17m
18 21 24 " 19 18 54

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. δ Librae. East Time.

		h	m		h	m
February	3	2	8	G	14	8
	5	10	0	"	22	0
	10	1	43	"	13	43
	12	9	34	"	21	34
	17	1	17	"	13	17
	19	9	8	"	21	8
	24	0	51	"	12	51
	26	8	42	"	20	42

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. U Coronae. East Time.

	d	h	m		h	m
February	2	2	15	Min	11	57
	5	13	6	"	22	48
	9	0	3	"	9	39
	12	10	48	"	20	30
~~+6~~	~~=2~~	21	"		9	21
	19	8	30	"	18	12
	26	6	12	"	15	54

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.4440

1897 W Delphini. Eph. Time.

		d	h	m		h	m
Mar	3		2	2	G	14	2
	8		-2	36		9	24
	13		-7	16		4	44
	17		12	v-		24	v-
	22		7	27		19	27
	27		2	48		14	48

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897 S Cancri. East Time.

		d	h	m	
March	Sun.	0	19	47	Times of minima
"	Wed.	10	7	25	
"	Fri.	19	19	3	
"	Mon.	29	6	40	

	d	h	m		d	h	m
March	0	9	2	G	1	6	32
	9	20	40	"	10	18	10
	19	8	18	"	20	5	48
	28	19	55	"	29	17	25

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.4440

1897 λ Tauri East. Time.

	d	h	m		h	m
March	4	-4	4	to	7	-6
	8	-5	12	"	6	48
	12	-6	20	"	5	40

Minima following above date to July 4, 97 inclusive, are in daylight.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. β Persei. East. Time.

	d	h	m		h	m
March	2	-3	29	=	8	31
	10	12	58	"	22	58
	13	9	47	"	19	47
	16	6	35	"	16	35
	19	3	24	"	13	24
	22	0	13	"	10	13
	30	14	40	"	24	40

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.4440

1897. δ Librae East Time.

		h	m		h	m
March	3	0	25	G	12	25
"	5	8	16	"	20	16
"	10	−0	1	"	11	59
"	12	7	51	"	19	51
"	17	−0	27	"	11	33
"	19	7	25	"	19	25
"	24	−0	03	"	11	7
"	26	6	59	"	18	59
"	31	−1	18	"	10	42

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897 U Cephei East Time.

	d	h	m		h	m
March	1	−1	20	to	8	35 <
	3	10	20	"	20	20 <
	6	−1	45	"	8	15 <
	8	10	4	"	20	4 <
	11	−2	6	"	7	54 <
	13	9	43	"	19	43 <
	16	−2	27	"	7	33 <
	18	9	23	"	19	23 <
	21	−2	48	"	7	12 <
	23	9	2	"	19	2 <
	26	−3	9	"	6	51 <
	28	8	41	"	18	41 <
	31	−3	30	"	6	30 <

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.4440

1897. U Coronae. East. Time.

	d	h	m		h	m
March	5	3	54	G	13	36
	8	14	40	"	24	27
	12	1	36	"	11	18
	15	12	28	"	22	10
	19	-0	41	"	9	1
	22	10	10	"	19	52
	26	-2	59	"	6	43
	29	7	52	"	17	34

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.:4440

1897. El Obscuro East Time

	d	h	m		h	m
March	1	16	30.3	U	21	0.3
	2	12	38.0	"	17	8.0
	3	8	45.7	"	13	15.7
	4	4	U 3.4	"	9	23.4
	7	13	24.3	"	17	U 4.3
	8	9	32.0	"	14	2.0
	9	U	39.7	"	10	9.7
	10	1	47.4	"	6	17.4
	12	14	10 U	"	18	40 U
	13	10	18.2	"	14	48.2
	14	6	26.0	"	10	U 6.0
	15 U	2	33.7	"	7	3.7
	17	14	U 6.8	"	19	26.8
	18	11	4 U	"	15 U	34 U
	19	7	12.2	"	11	42.2
	20	3	19.9	"	7	49.9
	22	15 U	43.1	"	20	13.1
	23	11	U 0.8	"	16	20.8
	24	7	U 8.5	"	12	28.5 U
	25 U	4	6.2	"	8	36.2
	27	16	29.3	"	20	U 9.3
	28	12	37.0	"	17	7.0
	29	8	44.7	"	13	14.7
	30	4	U 2.4	"	9	22.4

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. U Cephei. East Time.

April	2h	8h	20m	G	18h	20m
	7	7	59		17	59
	12	7	38		17	38
	17	7	17		17	17
	22	6	59		16	59
	29	6	36		16	36

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. U Coronae. East. Time.

April	5^d	5^h	34^m	15^h	16^m
	12	3	16	12	58
	15	14	7	23	49
	19	0	58	10	40
	22	11	49	21	31
	26	−1	20	8	22
	29	9	31	19	13

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.4440

1897 δ Librae. East. Time.

	d	h	m		h	m
April	2	6	33	G	18	33
	7	−1	44		10	16
	9	6	7		18	7
	12	−10	2		1	58
	14	−2	10		9	50
	16	5	41		17	41
	19	−10	27		1	33
	21	−2	36		9	24
	23	5	15		17	15
	26	−10	3		1	7
	28	−3	2		8	8
	30	4	49		16	49

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae..proj..4440

1897 S Cancri East Time

April	Wed	7d	18h	18m
	Sat	17	5	56
	Mon	26	17	34

} Times of minima

April	7d	7h	33m	G.T.	8d	5h	3m
	16	19	11	"	17	16	41
	26	6	49	"	27	4	19

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897 β Persei East Time.

April	2d	11h	29m	to	21h	29m
	5	8	18		18	18
	8	5	7		15	7
	11	1	55		11	55
	14	−1	16		8	44
	17	−4	27		5	33
	20	−7	38		2	22
	22	13	11		23	11
	25	10	0		20	0
	28	6	49		16	49

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. U Ophiuchi. East. Time.

	d	h	m		h	m
April	2	13	23.7	G−	17	5−3.7
	3	9	31.4		14	1.4
	4	4	39.1		10	9.1
	7	14	10.0		18	40.0
	8	10	17.7		14	47.7
	9	6	25.4		10	5−5.4
	12	14	5−6.2		19	26.2
	13	11	3.9		15−	33.9
	14	7	11.7		11	41.7
	15−	3	19.4		7	49.4
	17	15−	42.5−		20	12.5−
	18	11	5−0.2		16	20.2
	19	7	5−7.9		12	27.9
	20	4	5−.6		8	35.6
	23	12	36.5−		17	6.5−
	24	8	44.2		13	14.2
	25−	4	5−1.9		9	21.9
	28	13	22.7		17	5−2.7
	29	9	30.4		14	0.4
	30	5−	38.1		10	8.1

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. U Cephei. East. Time.

	d	h	m		h	m
April	2	8	20	to	18	20
	7	7	59		17	59
	12	7	38		17	38
	17	7	17		17	17
	22	6	57		16	57
	27	6	36		16	36

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. W Delphini. East. Time.

	d	h	m		h	m
April	1	-1	50	G	10	10
	6	-6	29		5-	31
	10	12	52		24	02
	15	8	13		20	13
	20	3	34		15-	34
	25-	-1	4		10	56
	30	-5-	43		6	17

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. S Cancri. East Time.

		d	h	m	
May	Thu.	6	5	17	Times of minimum.
	Sat.	15	16	49	
	Tue.	25	4	27	

	d	h	m		d	h	m
May	5	18	26	6	15	56	
	15	6	4	"	16	3	34
	24	17	42	"	25	15	12

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. Algol. β Persei Eastern Time.

May	1	d	h	m	h	m
			3	38	13	38
	4	0	27	"	10	27

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. δ Librae East. Time

	d	h	m		h	m
May	2	12	41	to	24	41
	5	−3	28		8	32
	7	4	24		16	24
	9	12	15		24	15
	12	−3	54		8	6
	14	3	58		15	58
	16	11	49		23	49
	21	3	32		15	32
	23	10	23		22	23
	28	2	6		14	6
	30	10	57		22	57

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. U Coronae East Time.

	d	h	m		h	m
May	6	7	13	G	16	55
	13	4	56	"	14	37
	20	2	37	"	12	19
	23	13	28	"	23	10
	27	0	19	"	10	1
	30	11	10	"	20	52

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. U Ophiuchi. East Time.

	d	h	m		h	m
May	0	5	38.6	to	10	8.6
	3	14	9.4		18	39.4
	4	10	17.1		14	49.1
	5	6	24.9		10	57.9
	8	14	55.7		19	25.7
	9	11	3.4		15	33.4
	10	7	11.1		11	41.1
	11	3	18.8		7	48.8
	13	15	41.9		20	12.9
	14	11	49.7		16	19.7
	15	7	57.4		12	27.4
	16	4	5.1		8	35.1
	18	16	28.2		20	58.2
	19	12	35.9		17	5.9
	20	8	43.6		13	13.6
	21	5	51.3		9	21.3
	24	13	22.2		17	52.2
	25	9	29.9		13	59.9
	26	5	37.6		10	7.6
	29	14	8.4		18	38.4
	30	10	16.1		14	46.1
	31	6	23.8		10	53.8

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. U Cephei. Earth Time.

		h	m		h	m
May	2	6	15		16	15
	7	5	54		15	54
	12	5	33		15	33
	17	5	13		15	13
	22	4	52		14	52
	27	4	31		14	31

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1897. W Delphini. East Time.

	da	h	m		h	m
May	4	13	38	tr	25	38
	9	9	0		21	0
	14	4	20		16	20
	19	-0	18		11	42
	28	14	24		26	24

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of June.

1897.

W Delphini

East Time

	d	h	m		h	m
June	2	9	45	to	21	45
	7	5	06	"	17	06
	12	0	28	"	12	28
	26	10	31	"	22	31

S Librae

	d	h	m		h	m
June	4	2	40	to	14	40
	6	10	32	"	22	32
	11	2	14	"	14	14
	13	10	06	"	22	06
	18	1	48	"	13	48
	20	9	40	"	21	40
	25	1	23	"	13	23
	27	9	14	"	21	14

U Coronae

	d	h	m		h	m
June	3	-1	59	to	7	43
	6	8	52	"	18	34
	13	6	34	"	16	16
	20	4	16	"	13	58
	27	1	59	"	11	41
	30	12	50	"	22	32

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj,.4440

Month of June

1897. S Cancri. East Time.

		d	h	m
June	Thu.	3	16	05
	Sun.	13	3	42
	Tue.	22	15	20

} Times of minima

	d	h	m		d	h	m
June	3	5	20	to	4	2	50
	12	16	57	"	13	14	27
	22	4	35	"	23	2	5

U Cephei.

	d	h	m		h	m
June	1	4	10	to	14	10
	6	3	49	"	13	49
	11	3	28	"	13	28
	16	3	7	"	13	7
	19	-9	3	"	0	57
	21	2	47	"	12	47
	24	-9	24	"	0	36
	26	2	26	"	12	26
	29	-9	45	"	0	15

Minima times of λ Tauri, Z Herculis & Y Cygni are in daylight.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of June

1897

β Persei.

East Line.

	d	h	m		h	m
June	27	11	56	to	21	56
	30	A	40	"	18	40

U Ophiuchi.

	d	h	m		h	m
June	4	11	28	to	15	32.8
	5	7	10.6	"	11	40.6
	9	11	49.1	"	16	19.1
	10	7	56.8	"	12	26.8
	11	4	40	"	8	34.0
	14	12	35.4	"	17	0.4
	15	8	43.1	"	13	3.1
	16	4	50.8	"	9	20.8
	19	13	21.6	"	17	51.6
	20	9	29.3	"	13	59.3
	21	5	37.0	"	10	7.0
	24	14	7.9	"	18	37.9
	25	10	15.6	"	14	45.6
	26	6	23.3	"	10	53.3
	30	11	1.8	"	15	31.8

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of July.

1897. δ Librae. East. Time.

July	2.	0h	57m	to	12h	57m
"	4.	8	48	"	20	48
"	9.	0	31	"	12	31
"	11.	8	22	"	20	22
"	16.	0	05	"	12	05
"	18.	7	56	"	19	56
"	22.	23	39	"	July 23.	11h	39m
"	25.	7	31	"	19	31
"	29.	23	13	"	July 30.	11h	30m

U Coronae

July	3d.	23hr	32m	to	July 4, 9h.	32m
	7.	10	23	"	20h	23m
	14.	8	5	"	18	5
	21.	5	47	"	15	47
	28.	3	29	"	13	29

U Cephei.

July	1.	2hr	5m	to	12h	5m
	3.	13	55	"	23	55
	6.	1	44	"	11	44
	8.	13	34	"	23	34
	11.	1	23	"	11	23

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of July.

1897 U Cephei (con.) East. Time.

July	13.	13^h	13^m	to	23^h	13^m
	16.	1	2	"	11	2
	18.	12	52	"	22	52
	21.	0	41	"	10	41
	23.	12	31	"	22	31
	26.	0	20	"	10	20
	28.	12	10	"	22	10
	30.	23	59	to July 31.	9^h	59^m

γ Delphini.

July 1.			I.	to	I.	
	6.		I.	"	13	1K
	11.		I.	"	A	3V
	20.	11	1A	"	I.	
	2V.	6	3A	"	I.	
	30.		I.	"	1K	0

U Ophiuchi

July	1,	7^h	10^m	to	11^h	40^m
"	5.	11	49	"	16	19
"	6.	7	56	"	12	26
"	7.	4	4	"	8	34
"	10,	12	35	"	17	5
"	11.	8	42	"	13	12
"	12.	4	45	"	9	20

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of July

1897 ζ Ophiuchi. (con.) East. Time

July	15,	13^h	21^m	to	17^h	37^m
"	16,	9	29	"	13	39
"	17,	5	36	"	10	6
"	20,	14	7	"	18	37
"	21,	10	15	"	14	45
"	22,	6	23	"	10	33
"	25,	14	53	"	19	23
"	26,	11	1	"	15	31
"	27,	7	9	"	11	39
"	31,	11	47	"	16	17

Y Cygni.

July	1.	15^h	4^m	to	23^h	4^m
"	3.	13	7	"	21	7
"	4.	14	59	"	22	59
"	6.	13	2	"	21	2
"	7.	14	53	"	22	53
"	9.	12	57	"	20	57
"	10.	14	48	"	22	48
"	12.	12	52	"	20	52
"	13.	14	42	"	22	42
"	15.	12	47	"	20	47
"	16.	14	37	"	22	37
"	18.	12	42	"	20	42
"	19.	14	31	"	22	31
"	21.	12	37	"	20	37
"	22.	14	26	"	22	26

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of July.

1897 — Y Cygni (con.) East. Time

July	24.	12^h	32^m	to	20^h	32^m
"	25.	14^h	20	"	22	20
"	27.	12	27	"	20	27
"	28.	14	15	"	22	15
"	30.	12	22	"	20	22
"	31.	14	9	"	22	9

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of August.

1897. β Persei East. Time.

Aug.	9.	12^h	9^m	to	22^h	9^m	
"	12.	8	58	"	18	58	
"	15.	5	47	"	15	47	
"	18.	2	36	"	12	36	
"	20.	23	25	"	Aug. 21.	9^h	25^m
"	29.	13	51	"	23	51	

δ Librae.

Aug.	1.	7^h	5^m	to	19^h	5^m	
"	~~3.~~	~~13~~	~~56~~	~~"~~	~~Aug. 4.~~	~~1^h~~	~~56^m~~
"	5.	22	47	"	" 6.	10	47
"	8.	6	39	"	18^h	39^m	
"	10.	14	30	"	Aug. 11.	2^h	30^m
"	12.	22	22	"	" 13.	10	22
"	15.	6	13	"	18^h	13^m	
"	17.	14	4	"	Aug. 18.	2^h	4^m
"	19	21	56	"	" 20.	9	56
"	22.	5	47	"	17^h	47^m	
"	24.	13	38	"	Aug. 25.	1^h	38^m
"	26	21	30	"	" 27.	9	30
"	29.	5	21	"	17^h	21^m	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of August.

1897. **U Coronae.** East. Time.

Aug.	4.	1h	11m	to	11h	11m	
"	7.	12	2	"	22	2	
"	10.	22	53	"	Aug. 11.	8h	53m
"	14.	9	44	"	19h	44m	
"	21.	7	26	"	17	26	
"	28.	5	8	"	15	8	

U Cephei.

Aug.	2.	11h	49m	to	21h	49m	
"	4.	23	39	" Aug. 5.	9	39	
"	7.	11	28	"	21	38	
"	9.	23	18	" Aug. 10.	9	18	
"	12.	11	7	"	21	7	
"	14.	22	57	" Aug. 15.	8	57	
"	17.	10	46	"	20	46	
"	19.	22	36	" Aug 20.	8	36	
"	22.	10	25	"	20	25	
"	27.	10	5	"	20	5	

W Delphini.

Aug.	3.	21h	21m	to	Aug. 4.	9h	21m
	13.	12	4	"	" 14.	0	04
	18.	7	25	"		19	25
	23.	2	46	"		14	46
	27.	22	07	"	Aug. 28.	10	07

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of August.

1897. U Ophiuchi. East. Time.

Aug. 1.	7^h	56^m	to	12^h	26^m
2.	4	4	"	8	34
6.	8	42	"	13	12
7.	4	50	"	9	20
10.	13	21	"	17	51
11.	9	28	"	13	58
12.	5	36	"	10	6
15.	14	7	"	18	37
16.	10	15	"	14	45
17.	6	22	"	10	52
21.	11	1	"	15	31
22.	7	8	"	11	38
26.	11	47	"	15	17
27.	7	55	"	12	25
28.	4	2	"	8	32
31.	12	33	"	17	3

Y Cygni.

Aug 2	12^h	16^m	to	20^h	16^m
" 3	14	4	"	22	4
" 5	12	11	"	20	11
" 6	13	58	"	21	58
" 8	12	6	"	20	6
" 9	13	53	"	21	53
" 11	12	1	"	20	1
" 12	13	47	"	21	47
" 14	11	56	"	19	56

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj...4440

Month of August.

1897. Y. Cygni. (con.) East. Time

Aug.	15	13h	42m	to	21h	42m
"	17	11	51	"	19	51
"	18	13	36	"	21	36
"	20	11	46	"	19	46
"	21	13	31	"	21	31
"	23	11	41	"	19	41
"	24	13	26	"	21	26
"	26	11	36	"	19	36
"	27	13	20	"	21	20
"	29	11	31	"	19	31
"	30	13	14	"	21	14

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of September.

1897. β Persei. East. Time.

Sept.	1.	10^h	40^m	to	20^h	40^m	
"	4.	7	29	"	17	29	
"	7.	4	18	"	14	18	
"	10.	1	7	"	11	7	
"	12.	21	56	"	Sept. 13.	7^h	56^m
"	18.	15	34	"	" 19.	1	34
"	21.	12	23	"	22^h	23^m	
"	24.	9	12	"	19	12	
"	27.	6	0	"	16	0	
"	30	2	49	"	12	49	

δ Librae.

Sept.	2.	21^h	4^m	to	Sept. 3.	9^h	4^m
"	5.	4	55	"	16^h	55^m	
"	7.	12	47	"	Sept. 8.	0^h	47^m
"	9.	20	38	"	" 10.	8	38
"	12.	4	30	"	16^h	30^m	
"	14.	12	21	"	Sept. 15	0^h	21^m
"	16.	20	12	"	" 17	8	12
"	19.	4	4	"	16^h	4^m	
"	21.	11	55	"	23	55	
"	23.	19	46	"	Sept. 24.	7^h	46^m
"	26.	3	38	"	15^h	38^m	
"	28.	11	29	"	23	29	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of September.

1897. U Coronae. East. Time.

Sept. 4.	2h	50m	to	12h	50m		
" 7.	13	41	"	23	41		
" 11.	0	32	"	10	32		
" 14.	11	23	"	21	23		
" 17.	22	14	"	Sept. 18.	8h	14m	
" 21.	9	5	"	19h	5m		
" 28.	6	48	"	16	48		

U Cephei.

Sept. 1	9h	44m	to	19h	44m		
" 6.	9	23	"	19	23		
" 11.	9	2	"	19	2		
" 16.	8	41	"	18	41		
" 21.	8	20	"	18	20	11 30 to 12 10	
" 26.	7	59	"	17	59		

γ Delphini.

Sept. 6.	12h	50m	to	Sept. 7.	0h	50m	
11.	8	10	"	20h	10m		
16.	3	32	"	15	32		
20.	22	53	"	Sept. 21.	10h	53	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of September.

1897. U Ophiuchi. East. Time.

Sept.	1.	8^h	42^m	to	13^h	12^m
"	2.	4	49	"	9	19
"	5.	13	20	"	17	50
"	6.	9	28	"	13	58
"	7.	5	36	"	10	6
"	10.	14	6	"	18	36
"	11.	10	14	"	14	44
"	12.	6	22	"	10	52
"	15.	14	53	"	19	28
"	16.	11	0	"	15	30
"	17.	7	8	"	11	38
"	20.	15	39	"	20	9
"	21.	11	46	"	16	16
"	22.	7	54	"	12	24
"	23.	4	2	"	8	32
"	26.	12	33	"	17	3
"	27.	8	40	"	13	10
"	28.	4	48	"	9	18

Y Cygni.

Sept.	1.	11^h	26^m	to	19^h	26^m
"	2.	13	9	"	21	9
"	4.	11	21	"	19	21
"	5.	13	4	"	21	4
"	7.	11	15	"	19	15
"	8.	12	58	"	20	58
"	10.	11	10	"	19	10

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of September.

1897. Y Cygni. (con.) East. Time.

Sept.	11.	12^h	53^m	to	20^h	53^m	
"	13.	11	5	"	19	5	
"	14.	12	47	"	20	47	
"	16.	11	0	"	19	0	
"	17.	12	42	"	20	42	
"	19.	10	55	"	18	55	
"	20.	12	36	"	20	36	
"	22.	10	50	"	18	50	
"	23.	12	31	"	20	31	
"	25.	10	45	"	18	45	
"	26.	12	25	"	20	25	
"	28.	10	40	"	18	40	(Even.)
"	29.	12	20	"	20	20	(Uneven)

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of October.

1897. β Persei. East. Time.

Oct.	2.	23h	38m	to	Oct. 3, 9h	38m
	11.	14	5	"	" 12. 0	5
	14.	10	54	"	20h	54m
	17.	7	43	"	17	43
	20.	4	32	"	14	32
	23.	1	21	"	11	21
	25.	22	9	"	Oct. 26, 8h	9m

U Coronae.

Oct.	5,	4h	30m	to	14h	30m
"	8,	15	21	"	Oct. 9, 1h	21m
"	12.	2	12	"	12h	12m
"	15.	13	3	"	23	3
"	18.	23	54	"	Oct. 19, 9h	54.
"	22.	10	45	"	20h	45m
"	25.	21	36	"	Oct. 26, 7h	36m
"	29.	8	27	"	18h	27m

S Cancri.

Oct.	4.	12h	30m	to	Oct. 5. 10h	0m
"	14.	0	8	"	21h	38m
"	24.	11	46	"	Oct. 25 9h	16m

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj...4440

Month of October.

1897. U Cephei. East. Time.

Oct. 1.	7h	38m	to	17h	38m
6.	7	18	"	17	18
11.	6	57	"	16	57
16.	6	36	"	16	36
21,	6	15	"	16	15
26.	5	54	"	15	54
31.	5	35	"	15	35

W Delphini.

Oct. 5.	8h	57m	to	20h	57m
10.	4	19	"	16	19
14.	23	40	"	Oct. 15, 11h	40m
19.	19	0	"	" 20, 7	0
24.	14	22	"	25 2	22
29.	9	43	"	21h	43m

λ Tauri.

Oct. 3,	7h	55m	to	17h	55m
7.	6	47	"	16	47
11.	5	39	"	15	39
15.	4	32	"	14	32
19.	3	24	"	13	24
23.	2	16	"	12	16
27.	1	8	"	11	8
31.	0	0	"	10	0

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of October.

1897. Y Cygni. East. Time

Oct. 1.	10^h	35^m	to	18	35^m	
2.	12	14	"	20	14	
4.	10	30	"	18	30	
5.	12	9	"	20	9	
7.	10	25	"	18	25	
8.	12	4	"	20	4	
10.	10	20	"	18	20	
11.	11	58	"	19	58	
13.	10	14	"	18	14	
14.	11	52	"	19	52	
16.	10	10	"	18	10	
17.	11	47	"	19	47	
19.	10	4	"	18	4	
20.	11	41	"	19	41	
22.	9	59	"	17	59	
23.	11	36	"	19	36	
25.	9	54	"	17	54	
26.	11	30	"	19	30	
28.	9	49	"	17	49	
29.	11	25	"	19	25	(Uneven)
31.	9	44	"	17	44	(Even)

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of October.

1897 — U Ophiuchi. — East. Time.

Oct. 1.	13h	19m	to	17h	49m
2.	9	27	"	13	57
3.	5	35	"	10	5
6.	14	6	"	18	36
7.	10	14	"	14	44
8.	6	21	"	10	51
9.	2	29	"	6	59
11.	14	52	"	19	22
12.	11	0	"	15	30
13.	7	7	"	11	37
14.	3	15	"	7	45
16.	15	38	"	20	8
17.	11	46	"	16	16
18.	7	53	"	10	23
19.	4	1	"	8	31
22.	12	32	"	17	2
23.	8	40	"	13	10
24.	4	48	"	9	18
27.	13	18	"	17	48
28.	9	26	"	13	56
29.	5	33	"	10	3

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of November.

1897. W Delphini. East. Time.

Nov. 3.	5^h	5^m	to	17^h	5^m	
8.	0	25	"	12	25	
12.	19	46	"	Nov. 13,	7^h	46^m
17.	15	8	"	" 18,	3	8
22.	10	29	"	22^h	29^m	
27.	5	51	"	17	51^m	

U Cephei.

Nov. 5.	5^h	12^m	to	15^h	12^m
10.	4	51	"	14	51
15.	4	31	"	14	31
20.	4	10	"	14	10
25.	3	49	"	13	49
30.	3	28	"	13	28

S Antliae.

Nov. 1.	13^h	33^m	to	17^h	33^m
11.	6	57	"	10	57
14.	12	45	"	16	45
24.	6	9	"	10	9
27.	11	57	"	15	57

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of November.

1897. β Persei. East. Time.

Nov. 3.	12h	36m	to		22h	36m
6.	9	25	"		19	25
9.	6	14	"		16	14
12.	3	3	"		13	3
14.	23	52	"	Nov. 15,	9h	52m
17.	20	41	"	" 18,	6	41
23.	14	18	"	" 24,	0	18
26.	11	7	"		21h	7m
29.	7	56	"		17	56

S Cancri.

Nov. 1.	23h	24m	to	Nov. 2.	20h	54m
11.	11	1	"	" 12.	8	31
20.	22	39	"	" 21.	20	9
30.	10	17	"	Dec. 1.	7	47

λ Tauri.

Nov. 3.	22h	53m	to	Nov. 4.	8h	53m
7.	21	45	"	" 8.	7	45
11.	20	37	"	" 12.	6	37
~~27.~~	~~16~~	~~5~~	"	~~" 28.~~	~~2~~	~~5~~

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of November.

1897 R Canis Majoris. East. Time.

Nov. 6.	10^h	55^m	to	15^h	55^m
7.	14	11	"	19	11
14.	9	46	"	14	46
15.	13	2	"	18	2
16.	16	18	"	21	18
23,	11	52	"	16	52
24,	15	8.	"	20	8

U Ophiuchi.

Nov. 3,	6^h	21^m	to	10^h	51^m
4,	2	29	"	6	59
8.	7	7	"	11	37
9.	3	15	"	7	45
14.	4	1	"	8	31
19.	4	47	"	9	17
24.	5	33	"	10	3
25.	1	41	"	6	11
29.	6	20	"	10	50
30.	2	27	"	6	57

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae_proj..4440

Month of December.

1897 — U Cephei. — East. Time.

Dec. 2.	15h	18m	to	Dec. 3.	1h	18m
5.	3	7	"		13h	7m
7.	14	57	"	Dec. 8,	0h	57m
10.	2	46	"		12h	46m
12.	14	36	"	Dec. 13,	0h	48m
15.	2	25	"		12h	25
17	14	15	"	Dec 18,	0h	15m
20	2	4	"		12h	4m
22	13	54	"		23	54
25	1	44	"		11	44
27	13	33	"		23	33
30	1	23	"		11	23

2t Delphini.

Dec. 2.	1h	12m	to		13h	12m
6.	20	32	"	Dec 7.	8h	32m
11.	15	54	"	"	12. 3	54
21.	6	37	"		18h	37
26.	1	57	"		13	57
30.	21	18	"	Dec. 31.	9h	18m

S Cancri.

Dec. 9	21h	55	to	Dec. 10.	19h	25m
19	9	32	"	"	20. 7	2
28	21	10	"	"	29. 18	40

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of December.

1897. Antliae. East. Time.

Dec.	7.	5^h	21^m	to 9^h	21
	10.	11	9	" 15	9
	13.	16	57	" 20	57
	20.	4	33	" 8	33
	23.	10	21	" 14	21
	26.	16	9	" 20	9

R Canis Majoris.

Dec.	1.	10^h	42^m	to 15^h	42^m
	2.	13	58	" 18	58
	3.	17	14	" 22	14
	8.	6	17	" 11	17
	9.	9	33	" 14	33
	10.	12	48	" 17	48
	11.	16	4	" 21	4
	16.	5	7	" 10	7
	17.	8	23	" 13	23
	18.	11	39	" 16	39
	19.	14	55	" 19	55
	20.	18	11	" 23	11
	25.	7	14	" 12	14
	26.	10	30	" 15	30
	27.	13	45	" 18	45
	28.	17	1	" 22	1

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of December.

1897 — Y Cygni. — East. Time

Dec. 1.	10^h	24^m	to	18^h	24^m
3.	8	48	"	16	48
4.	10	19	"	18	19
6.	8	43	"	16	43
7.	10	13	"	18	13
9.	8	38	"	16	38
10.	10	8	"	18	8
12.	8	33	"	16	33
13.	10	2	"	18	2
15.	8	28	"	16	28
16.	9	57	"	17	57
18.	8	23	"	16	23
19.	9	51	"	17	51
21.	8	18	"	16	18
22.	9	46	"	17	46
24.	8	13	"	16	13
25.	9	40	"	17	40
27.	8	8	"	16	8
28.	9	35	"	17	35
30.	8	2	"	16	2
31.	9	29	"	17	29

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of December.

1897. β Persei. East. Time

Dec. 2.	4h	45m	to	14h	45m
5.	1	34	"	11	34
13.	16	1	"	Dec 14	2h 1m
16.	12	50	"	22h	50m
19.	9	38	"	19	38
22.	6	27	"	16	27
25.	3	16	"	13	16
28.	0	5	"	10	5
30.	20	54	.	Dec. 31, 6h	54m

λ Tauri.

Dec. 1	14h	58	to	Dec. 2, 0h	58m
5.	13	50	"	23h	50m
9.	12	42	"	22	42
13.	11	35	"	21	35
17.	10	27	"	20	27
21.	9	19	"	19	19
25.	8	11	"	18	11
29.	7	3	.	17	3

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of January.

1898. U Cephei. Eastern Time

Jan 1,	~~+3~~ 1	~~11~~ 51	to	~~23~~ 11	~~11~~ 51
4	~~0~~	~~59~~	"	~~10~~	~~59~~
6	13 ~~12~~	40 ~~47~~	"	23 ~~22~~	40 ~~47~~
9	1 ~~0~~	31 ~~35~~	"	11 ~~10~~	31 ~~35~~
11	13 ~~12~~	20 ~~23~~	"	23 ~~22~~	20 ~~23~~
14	1 ~~0~~	10 ~~11~~	"	11 ~~10~~	10 ~~11~~
16	12 ~~11~~	59 ~~54~~	"	22	59
19	0	49		10	49
~~18~~	~~23~~	~~47~~	"	9	47
21	12 ~~11~~	39 ~~35~~	"	22 ~~21~~	39 ~~35~~
24	0	28		10	28
~~23~~	~~23~~	~~23~~	" ~~Jan 24,~~	~~9~~	~~23~~
26	12 ~~11~~	18 ~~11~~	"	22 ~~21~~	18 ~~11~~
29	0	7		10	7
~~28~~	~~22~~	~~09~~	" ~~Jan 29,~~	~~8~~	~~59~~
31	11 ~~10~~	57 ~~47~~	"	21 ~~20~~	57 ~~47~~

N Delphini

Jan 19 $2^h\ 44^m$ to $14^h\ 44^m$

Jan 23 $22\ 5$ to Jan. 24 $10^h\ 5^m$

S Cancri

Jan 7. $8^h\ 48^m$ to Jan 8, $6^h\ 18^m$

" 16 20 26 " " 17, 17 56

" 25 8 4 " Jan 26. 5 34

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of January.

1895 β Persei. Eastern Time

Jan. 5	14h	32m	to Jan 6.	0h	32m
8.	11	21	to	21h	21m
11.	8	10	"	18	10
14.	4	59	"	14	59
17.	1	48	"	11	48
19.	22	37	" Jan 20.	8h	37m
~~22.~~	~~19~~	~~26~~	~~" " 23.~~	~~5~~	~~26~~
25.	16	15	" " 26	2	15
28.	13	4	"	23h	4m
31.	9	54	"	19	54

λ Tauri.

Jan 2.	5h	54m	to	15h	54m
6.	4	45	"	14	45
10.	3	36	"	13	36
14.	2	27	"	12	27
18.	1	18	"	11	18
22.	0	9	"	10	9
25	23	0	" Jan 26.	9h	0m
29	21	51	" " 30.	7	51

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae..proj..4440

Month of January.

1896. S Antliae. East Time.

Jan 1.	12	36	to	16	6
2	11	57	"	15	27
3	12	18	"	14	48
4	10	39	"	14	9
5	10	0	"	13	30
6	9	21	"	12	51
7	8	42	"	12	12
8	14	50	"	18	20
9	14	11	"	17	41
~~10~~	~~5~~	~~45~~	~~"~~	~~19~~	~~15~~
10	13	32	"	17	2
11	12	53	"	16	23
12	12	14	"	15	44
13	11	35	"	15	5
14	10	56	"	14	26
15	10	17	"	13	47
16	9	38	"	13	8
17	8	59	"	12	29
18	8	20	"	11	50
19	7	41	"	11	11
20	7	2	"	10	32
25	11	34	"	15	4
26	10	55	"	14	25
27	10	16	"	13	46
28	9	37	"	13	7
29	8	58	"	12	28
30	8	19	"	11	49
31	7	40	"	11	10

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.14440

Month of February & March.

1896. R Canis Majoris. East. Time.

Feb.	h	h	m	to	h	m	
	5	7	56	"	12	56	9^h 56
	6	11	12	"	16	12	
	12	3	31	"	8	31	
	13	6	57	"	11	57	
	14	10	2	"	15	2	
	20	2	21	"	7	21	
	21	5	37	"	10	37	
	22	8	53	"	13	53	
	23	12	9	"	17	9	
Mar.	~~24~~ 24	5	28	"	9	28	
Mar.	2	7	53	"	12	53	
	9	3	18	"	8	18	
	10	6	34	"	11	34	
	11	9	59	"	14	59	
	17	2	8	"	7	8	
	18	5	24	"	10	24	
	19	8	50	"	13	50	
	26	5	14	"	9	14	
	27	7	30	"	12	30	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1898 **Algol.** Earth Time.

	d	h	m		h	m
Feb	3	6	41	G	16	41
	6	3	30	"	13	30
	9	0	19	"	10	19
	17	14	45	"	24	45
	20	11	34	"	21	34
	23	8	23	"	18	23
	26	5	12	"	15	12
Mar	1	2	1	"	12	1
	4	-1	10	"	8	50
	12	13	17	"	23	17
	15	10	5	"	20	5
	18	6	54	"	16	54
	21	3	43	"	13	43
	24	0	32	"	10	32
	27	-2	39	"	7	21

1898 **λ Tauri** Earth Time

	d	h	m		h	m
Feb	14	17	29	G	27	29
	18	16	22	"	26	22
	22	15	14	"	25	14
	26	14	6	"	24	6
Mar	2	12	58	"	22	58
	6	11	50	"	21	50
	10	10	43	"	20	43
	14	9	35	"	19	35
	18	8	27	"	18	27
	22	7	19	"	17	19
	26	6	11	"	16	11
	30	5	4	"	15	4

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

On hear. 25. begin as early as possible on S Cancri and get some observations.

S Cancri.

1898							East Time		
	d	h	m		d	h	m	Times of minimum	
Feb	4	19	41	Lo	5	17	11	Feb 5	6 26
	14	7	19	"	15	4	49	14	18 4
	23	18	57	"	24	16	27	24	5 42
— Mar	5	6	34	"	6	4	4	Mar 5	17 19
	14	18	12	"	15	15	42 —	15	4 57
—	24	5	50	"	25	3	20 —	24	16 35
Apr	2	17	28	"	3	14	58 —	Apr 3	4 13
—	12	5	5	"	13	2	35	12	15 50
	22	16	43	"	22	14	13 ~	22	3 28

δ Librae.

1898.	d	h	m		h	m	East Time
Feb	1	3	44	Lo	15	44	
	3	11	35	"	23	35	
	8	3	18	"	15	18	
	10	11	9	"	23	9	
	13	-4	59	"	7	1	
	15	2	52	"	14	52	
	17	10	43	"	22	43	
	22	2	26	"	14	26	
	24	10	18	"	22	18	
Mar	1	2	0	"	14	0	
	3	9	52	"	21	52	
	8	1	35	"	13	35	
	10	9	26	"	21	26	
	15	1	9	"	13	9	
	17	9	0	"	21	0	
	22	0	43	"	12	43	
	24	8	34	"	20	34	
	29	0	17	"	12	17	
	31	8	8	"	20	8	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

1898. U Cephei. Eastern Time.

						Times Minimum		
Feb. 3	-0h	13m	to 9h	47m	Feb. 3	4	47
5.	11	37	" 21	37	5	16	37
8.	-0	34	" 9	26	8	4	26
10.	11	16	" 21	16	10	16	16
13.	-0	55	" 9	5	13	4	5
15.	10	55	" 20	55	15	15	55
18.	-1	16	" 8	44	18	3	44
20.	10	34	" 20	34	20	15	34
23.	-1	37	" 8	23	23	3	23
25.	10	13	" 20	13	25	15	13
28.	-1	58	" 8	2	28	3	2
Mar. 2.	9	52	" 19	52	Mar. 2	14	52
5.	-2	19	" 7	41	5	2	41
7.	9	31	" 19	31	7	14	31
10.	-2	39	" 7	21	10	2	21
12.	9	10	" 19	10	12	14	10
15	-3	0	" 7	0	15	2	0
17	8	49	" 18	49	17	13	49
20	—			—	20	1	49
22	8	29	" 18	29	22	13	29
25	—			—	25	1	19
27	8	8	" 18	8	27	13	8
30	—			—	30	0	58

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.4440

Month of April.

1896. **β Persei.** Eastern Time

April.	7.	8^h	37^m	to	18^h	37^m
	10.	5	26	"	15	26
	13.	2	14	"	12	14
	16.	−1	57	"	9	03
	27.	10	19	"	20	19
	30.	7	08	"	17	08
May.	3.	3	57	"	13	57

δ Cancri.

								Times of Minima
April 2	17^h	25^m	to	April	3.	14^h	58^m	Apr. 3. 4^h 13^m
12	5	05	"	"	13.	2	35	12. 15 50
21	16	43	"	"	22.	14	13	22. 3 25

U Coronæ.

April.	6.	3^h	34^m	to	13^h	34^m
	9.	14	25	"	+0	25
	13.	1	16	"	11	16
	16.	12	07	"	22	07
	20.	−1	02	"	8	58
	23.	9	49	"	19	49
	30.	7	31	"	17	31

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

Month of April.

1896. U Cephei. Eastern Time.

April	1.	9h	47m	to	17h	47m
	6.	7	26	"	17	26
	11.	7	04	"	17	04
	16.	6	44	"	16	44
	21.	6	24	"	16	24
	26.	6	03	"	16	03

U Delphini.

April	1.	4h	00m	to	16h	00m
	6.	−0	40	"	11	20
	15.	14	02	"	+ 2	02
	20.	9	23	"	21	23
	25.	4	44	"	16	44
	30.	0	04	"	12	04

R Canis Majoris.

April	3.	3h	05m	to	8h	05m
	4.	6	21	"	11	21
	5.	9	36	"	14	36
	12.	5	11	"	10	11
	13.	8	27	"	13	27
	20.	4	02	"	9	02
	21.	7	18	"	12	18
	22.	10	33	"	15	33
	29.	6	08	"	11	08
	30.	9	24	"	14	24

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj.4440

Special Stars

Desig.	When last observed.
M. P. ☆ 1.	97. Jan. 16.
Nova Aurigae	96. Dec. 31.
T Andromedae	97. Jan. 23.
o Ceti.	" " 19.
U Cephei.	" " 25.
o Ceti.	" " 26.
" "	" " 29.
U Cephei.	" " 30.
o Ceti.	" Feb. 3.
U Cephei.	" " 4.
o Ceti.	" " 5.
U Cephei.	" " 9.
S Cancri.	" " "
" "	" " 10.
o Ceti.	" " "
S Cancri.	" " 11.
o Ceti.	" " "
M. P. ☆ 1.	" " "

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

R Canis Majoris

Date.	G.M.T.	Jul. Day	Epoch
98 Nov. 15.	11h 5.23	4609.4946	3743
" 16	15 8.0	4610.6306	3744
" 17	18 23.8	4611.7666	3745
" 18	21 39.6	4612.9025	3746
" 20	00 55.3	4614.0384	3747
" 21	4 11.1	4615.1743	3748
" 22	7 26.9	4616.3103	3749
" 23	10 42.6	4617.4462	3750
" 24	13 58.4	4618.5822	3751
" 25	17 14.2	4619.7182	3752
" 26	20 29.9	4620.8541	3753
" 27	23 45.7	4621.9901	3754
" 29	3 1.5	4623.1261	3755
" 30	6 17.2	4624.2619	3756
98 Dec. 1	9 33.0	4625.3979	3757
" 2	12 48.8	4626.5339	3758
" 3	16 4.5	4627.6698	3759
" 4	19 20.3	4628.8058	3760
" 5	22 36.0	4629.9417	3761
" 7	1 51.8	4631.0777	3762
" 8	5 7.6	4632.2136	3763
" 9	8 23.3	4633.3495	3764
" 10	11 39.1	4634.4855	3765
" 11	14 54.9	4635.6214	3766
" 12	18 10.6	4636.7573	3767
" 13	21 26.4	4637.8934	3768
" 15	00 42.2	4639.0293	3769
" 16	3 57.9	4640.1652	3770
" 17	7 13.7	4641.3012	3771

Date.	G.M.T.	Jul. Day	Epoch
98 Dec. 18	10 29.5	4642.4372	3772
" 19	13 45.2	4643.5730	3773
" 20	17 1.0	4644.7090	3774
" 21	20 16.8	4645.8450	3775
" 22	23 32.5	4646.9809	3776
" 24	2 48.3	4648.1169	3777
" 25	6 4.1	4649.2529	3778
" 26	9 19.8	4650.3888	3779
" 27	12 35.6	4651.5247	3780
" 28	15 51.4	4652.6607	3781
" 29	19 7.1	4653.7966	3782
" 30	22 22.9	4654.9325	3783

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj .4440

γ Cygni.

Date.	G.M.T.	Jul. Day.	Epoch.	Date	G.M.T.	Jul. Day.	Epoch.
'98. Nov. 11.	10 31.1	4605.4383	2907	98 Dec. 25	6 1.5	4649.2571	2936
" 13	7 13.1	4607.3008	2908	" 26	9 10.2	4650.3820	2937
" 14	10 25.8	4608.4346	2909	" 28	5 56.3	4652.2474	2938
" 16	7 8.1	4610.2972	2910	" 29	9 4.7	4653.3783	2939
" 17	10 20.3	4611.4308	2911	" 31	5 51.2	4655.2438	2940
" 19	7 3.0	4613.2938	2912				
" 20	10 15.0	4614.4271	2913				
" 22	6 57.9	4616.2902	2914				
" 23	10 9.5	4617.4233	2915				
" 25	6 52.7	4619.2866	2916				
" 26	10 4.2	4620.4195	2917				
" 28	6 47.0	4622.2830	2918				
" 29	9 58.7	4623.4158	2919				
'98. Dec. 1	6 42.4	4625.2795	2920				
" 2	9 53.4	4626.4121	2921				
" 4	6 37.3	4628.2759	2922				
" 5	9 47.9	4629.4082	2923				
" 7	6 32.2	4631.2723	2924				
" 8	9 42.6	4632.4046	2925				
" 10	6 27.1	4634.2689	2926				
" 11	9 37.1	4635.4008	2927				
" 13	6 21.9	4637.2652	2928				
" 14	9 31.8	4638.3971	2929				
" 16	6 16.9	4640.2617	2930				
" 17	9 26.3	4641.3933	2931				
" 19	6 11.8	4643.2582	2932				
" 20	9 21.0	4644.3896	2933				
" 22	6 6.7	4646.2547	2934				
" 23	9 16.5	4647.3858	2935				

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4440

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae.proj..4410

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

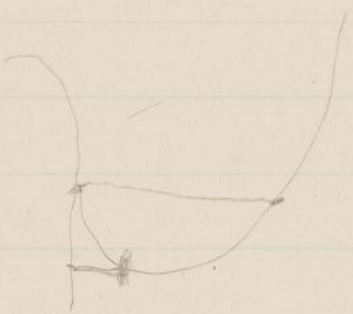
1896phae.proj..4440

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1896phae..proj...4440

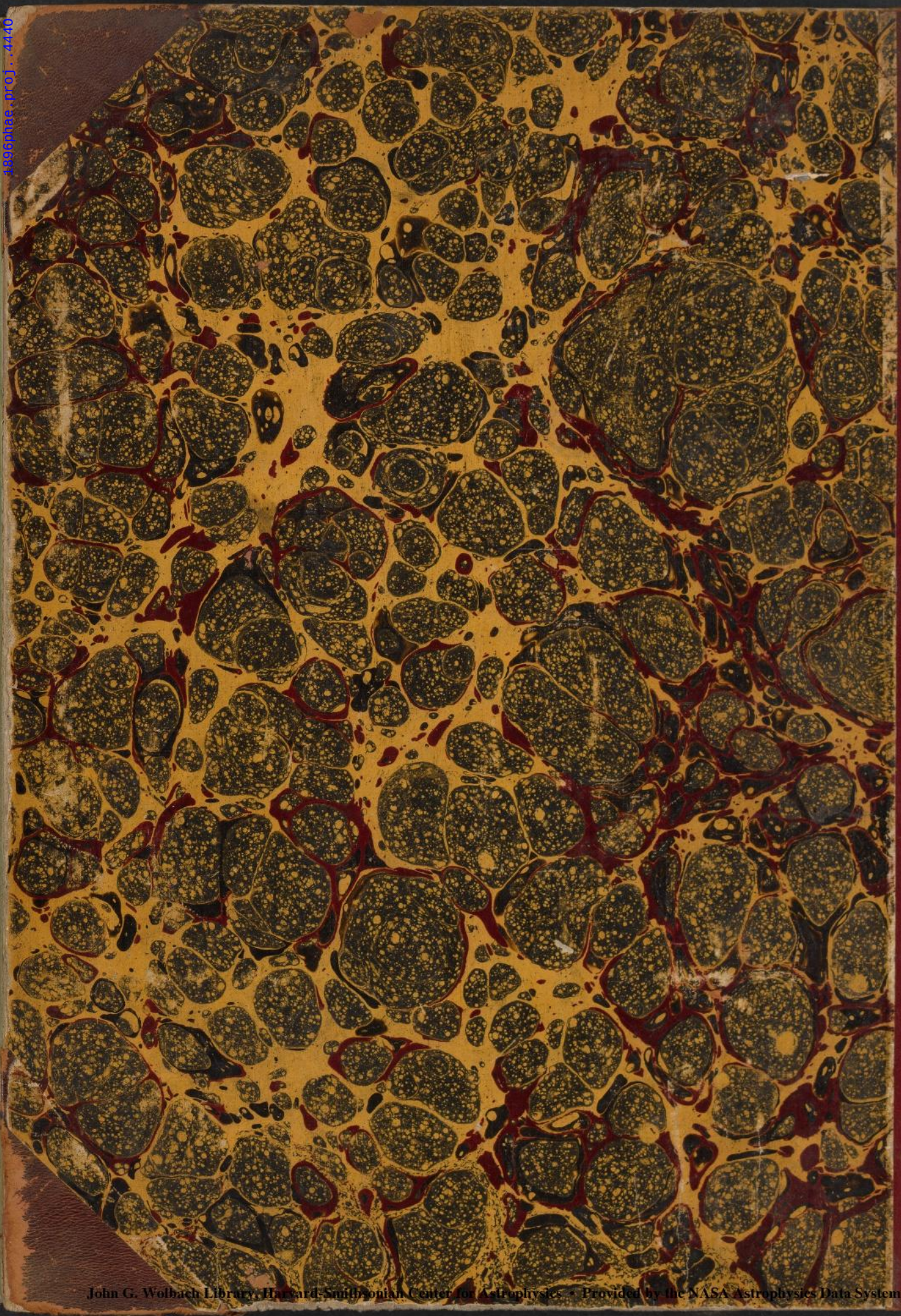
U Cephei.

On the front side of curve, the time when var. and comp. star are Equal, is 26. min. before time of min. on Oct. 1. 26. min. 1897.



John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

4396phae.proj.:4410



John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System