

KG
11366
v. 743

*Fundamental Stars.
Ephemeridies
and Constants for 1879*

Cygni
h^m 37 18.401
+ 44 50 54.78

^s
+2.0431
+12.710

NA. ^m 37 18.412
50 54.98

1879 L

Feb. 18 ^m 37 17.40
23 17.60
28 17.60
March 5 17.55
10 18.13
15 18.45
20 18.79
25 19.16
30 19.54
Apr. 4 19.92
9 20.29
14
19
May 4
9
14
19

^s
50 47.1
44.7
42.7
41.2
40.3
39.9
40.1
40.9
42.2
44.1

l sin. d 9.84832
l cos. d 9.85064
l tang. d 9.99768
l sec. d 0.14946
l tang. d + .995
sec. d + 1.411

15 cos. d tang. d
R₁
R₂
VR₁
VR₂
I

ϵ Cygni
 $20^h 41^m 18.947^s$
 $+33^\circ 31' 39''$
 $+2.4270$
 $+13.305$

$l_{\text{lin.}} \delta$ 9.74208
 $l_{\text{cos.}} \delta$ 9.92102
 $l_{\text{tang.}} \delta$ 9.82106
 $l_{\text{sec.}} \delta$ 0.07908
 $t_{\text{ang.}} \delta$ +.662
 $s_{\text{c.}} \delta$ +1.200
 $15 \cos. \delta \text{ tang. } i$
 R_1
 R_2
 lR_1
 lR_2
 I

S Cygni

 $21^{\circ} 7' 47.279''$
 $29^{\circ} 43' 53.30''$
 $+2.5522''$
 $+14.614''$

 N.A. m^s
 $7 47.180$
 $43 53.36$

1879

 α δ

Feb. 18 m^s
 23 $7 46.73$
 28 46.88
 March 5
 10 47.07
 15
 20 47.30
 25
 30 47.55
 Apr. 4
 9 47.83
 14
 19 48.14
 24
 29 48.46
 May 4
 9 48.80
 14
 19 49.13

 $43 46.2$ 46.3 44.8 43.7 43.0 42.8 43.1 43.9 45.2 46.9 $\sin \delta 9.69541$ $\cos \delta 9.93870$ $\tan \delta 9.75671$ $\sec \delta 0.06140$ $\tan \delta +.571$ $\sec \delta +1.152$ $15 \cos \delta \tan \delta$ R_1 R_2 LR_1 LR_2 I

B Aquarii

$$\begin{array}{r} 21^m 25^s 11.297 \\ - 6^m 6^s 10.11 \end{array}$$

$$\begin{array}{r} + 3.1628 \\ + 15.628 \end{array}$$

$$\begin{array}{r} N.A. 25^m 11.309 \\ 6^m 8.08 \end{array}$$

1879

 α β

$$\begin{array}{r} Feb. 18^m 25^s 11.47 \\ 23 \\ 28 \end{array}$$

5 71.2

11.61

71.1

March 5

10 11.78

70.8

15

20 11.98

70.3

25

30 12.21

69.5

Apr. 4

9 12.46

68.4

14

19 12.74

67.2

24

29 13.03

65.7

May 4

9 13.34

64.1

14

19 13.66

62.4

lin. β 9.02658m15000 tang. β loc. β 9.99753 R_1 tang. β 9.02905m R_2 sec. β 0.00257 LR_1 tang. β - .107 LR_2 sec. β + 1.006

I

1879 Pae. proj. 1747.

Pegasi
21^h 38^m 14.557^s
19[°] 19' 15.67"

+2.9458^s
+16.348"

N.A. 38^m 14.611^s
19' 16.40"

l_{sin} δ 9.20948
l_{cos} δ 9.99423
l_{tang} δ 9.21525
l_{sec} δ 0.00587
l_{tang} δ +.164
l_{sec} δ +1.013

l_{sec} l_{tang} δ
R₁
R₂
R₃
R₄
I

1879 x

δ

Feb. 18 38^m 14.58^s
23 38 14.71
March 5 10 14.86
15 15.05
20 15.26
25 15.41
Apr. 4 15.51
9 15.78
14 16.06
19 16.37
May 4 16.68

19' 13.4"
12.6
12.0
11.8
11.9
12.4
13.2
14.3
15.7
17.5

Scapicorni

21 40

-16 40

Conn de I ^m ^s

40 21.57

40 31.3

l sin. δ 9.45779ml cos. δ 9.98134ltang. δ 9.47645ml sec. δ 0.01876tang. δ - .299sec. δ + 1.044l sec. tang. δ R_1 R_2 lR_1 lR_2 I

Aquarii

21^h 59^m 34.10^s
 0° 54' 25.38"

+3.0829^s
 +17.347"

N.A. ^m 59 34.114^s
 54' 24.63"

1879

α

δ

Feb. 18^h 59^m 34.22^s
 23 34.32
 28 34.32
 March 5 34.45
 10 34.62
 15 34.82
 20 35.02
 25 35.30
 30 35.58
 Apr. 4 35.88
 9 36.19
 14 22.5
 19 20.9
 24 19.1
 May 29 35.58
 4 35.88
 9 36.19
 14 22.5
 19 20.9
 24 19.1

l sin δ 8.20010 n
 l cos δ 9.99994
 l tang δ 8.20016 n
 l sec δ 0.00016
 tang δ - .016
 sec δ + 1.000

15 cos δ tang i
 R₁
 R₂
 R₃
 R₄
 I

η Pegasi
$$\begin{array}{ccc} 22^h & 37^m & 19.900^s \\ +29^\circ & 35' & 19.78 \end{array}$$

+28060

+18740

lair. δ 9.69353lcos. δ 9.93931ltang. δ 9.75421lsec. δ 0.06079tang. δ + .568sec. δ + 1.15015cos δ tang. δ R_1 R_2 VR_1 VR_2

I

Aquarii
 $6^{\circ} 27' 48''$

Perm. de J. $48^{\circ} 13.57'$
 $27' 49.0''$

l sin. δ 9.45242 m

l cos. δ 9.98182

l tang. δ 9.47060 m

l sec. δ 0.01828

l ang. δ - .295

sec. δ + 1.043

1500 l tang. δ

R_1

R_2

lR_1

lR_2

I

α *Piscis Aust.*

$$\begin{array}{r} 22^{\circ} 50' \\ - 30^{\circ} 15' \end{array}$$

$$\begin{array}{r} N.A. \\ 50^m \quad 57.690 \\ 15 \quad 46.24 \end{array}$$

1879

 α δ

$$\begin{array}{r} Feb. \quad 18 \\ 23 \\ 28 \end{array} \quad \begin{array}{r} 50^m \quad 57.93 \\ 57.99 \end{array}$$

$$\begin{array}{r} 15' \quad 47.8 \\ 46.1 \end{array}$$

$$\begin{array}{r} March \quad 5 \\ 10 \\ 15 \end{array} \quad \begin{array}{r} 58.08 \\ 58.21 \end{array}$$

$$\begin{array}{r} 44.2 \\ 42.2 \end{array}$$

$$\begin{array}{r} 20 \\ 25 \end{array} \quad \begin{array}{r} 58.38 \end{array}$$

$$\begin{array}{r} 40.0 \end{array}$$

$$\begin{array}{r} Apr. \quad 4 \\ 9 \end{array} \quad \begin{array}{r} 58.58 \end{array}$$

$$\begin{array}{r} 37.7 \end{array}$$

$$\begin{array}{r} 14 \\ 19 \end{array} \quad \begin{array}{r} 58.82 \end{array}$$

$$\begin{array}{r} 35.4 \end{array}$$

$$\begin{array}{r} May \quad 29 \\ 4 \end{array} \quad \begin{array}{r} 59.10 \end{array}$$

$$\begin{array}{r} 33.1 \end{array}$$

$$\begin{array}{r} 9 \\ 14 \end{array} \quad \begin{array}{r} 59.40 \end{array}$$

$$\begin{array}{r} 30.8 \end{array}$$

$$\begin{array}{r} 19 \end{array} \quad \begin{array}{r} 59.73 \end{array}$$

$$\begin{array}{r} 28.6 \end{array}$$

$$\begin{array}{r} \text{lin. } \delta \quad 9.70242 m \\ \text{cos. } \delta \quad 9.93637 \\ \text{ltang. } \delta \quad 9.76605 m \\ \text{lsec. } \delta \quad 0.06373 \\ \text{tang. } \delta \quad - .583 \\ \text{sec. } \delta \quad + 1.158 \end{array}$$

$$\begin{array}{r} \text{Sec. Tang. } i \\ R_1 \\ R_2 \\ \ell R_1 \\ \ell R_2 \\ I \end{array}$$

Pegasi
 $2^h 58^m 44.066^s$
 $14^\circ 33' 16.89''$

$+2.9858^s$
 $+19.331''$

N.A. $58^m 44.042^s$
 $33' 17.58''$

1879

2

8

Feb. 18 $58^m 44.02^s$
 23
 28 44.08^s

33 $19.2''$

March 5
 10 44.13^s
 15
 20 44.24^s
 25
 30 44.38^s

17.4

16.9

16.6

Apr. 4
 9 44.57^s
 14
 19 44.79^s
 24

16.6

17.1

May 29 45.04^s
 4
 9 45.33^s
 14
 19 45.63^s

17.8

18.9

20.3

lin. d 9.40022

sec. d tang. d

lin. d 9.98583

R_1

ltang. d 9.41439

R_2

lin. d 0.01427

lR_1

tang. d +.259

lR_2

sec. d +1.033

I

1879phae.proj.1747.

