

KG  
11366  
v. 6/2

Fundamental Stars  
Observations and Reductions  
B<sub>3</sub>  
From Mar. 23. 1883 to Apr. 13. 1888























15 August

h m s

8 2 31

-23 58

1883

Mar. 23

2 Ophiuchi

h m s

14 39 24

+12 39

(1) Draco

h m s

17 37 38

+68 49



$\varphi'$  Dracon.h m s  
17 44 1

+92 12

 $\gamma$  Dracon

17 53 52

+51 31

 $\delta$  Uta Min.h m s  
18 10 21

+86 37



$\eta$  Serpentis

h m s

18 15 13

-2 56

1883

Mar. 33

 $\epsilon$  Lyrae

h m s

18 32 57

+38 41

 $\sigma$  Sagittarii

h m s

18 47 57

-26 26



$\gamma$  Aquilae  
h m s  
19 0 0  
+13 43

$\delta$  Draconis  
h m s  
19 12 32  
+67 27

$\beta$  Cygni  
h m s  
19 35 58  
+27 43

$\gamma$  Argush m s  
19 40 40

+10 20

1883

Mar. 23



Sun

h m s

0 13 41

+1° 29'

1883

Mar. 23  
24

X Androm

h m s

1 56 41

+41° 46'

Mar. 24

$\alpha$  Arietis

h. m. s.

3 0 33

+22 54

1883

Mar 24

 $\alpha$  Aurigae

h. m. s.

5 7 59

+45 52

 $\beta$  Tauri

h. m. s.

5 18 50

+28 30



$\alpha$  Leporis

h m s

5 27 32

-17 54

 $\epsilon$  Orionis

h m s

5 30 14

-9 17

 $\kappa$  Orionis

h m s

5 42 10

-9 43

*α Orionis**h m s*  
*5 48 47**+ 9 23**1883**Mar. 24**E Can. Maj.**h m s*  
*6 53 59**- 28 49**S Can. Maj.**h m s*  
*7 3 36**- 26 12*



$\delta$  Dracon L.C. $\begin{array}{r} \text{h} \text{ m} \text{ s} \\ 19 \ 12 \ 32 \\ + 12 \ 33 \end{array}$  $\beta$  Cass. Min. $\begin{array}{r} \text{h} \text{ m} \text{ s} \\ 20 \ 48 \\ + 8 \ 31 \end{array}$  $\alpha^2$  Geminor $\begin{array}{r} \text{h} \text{ m} \text{ s} \\ 27 \ 3 \\ + 32 \ 9 \end{array}$

2 Cor. Min.

$$\begin{array}{r} h \text{ m s} \\ 7 \ 38 \ 7 \\ +0 \ 1 \\ \hline 7 \ 39 \ 8 \end{array}$$

1883

Mar-24

3 Genmor

$$\begin{array}{r} h \text{ m s} \\ 7 \ 38 \ 8 \\ +0 \ 1 \\ \hline 7 \ 38 \ 19 \end{array}$$

Gen. 1374

$$\begin{array}{r} h \text{ m s} \\ 7 \ 46 \ 10 \\ +0 \ 1 \\ \hline 7 \ 46 \ 11 \end{array}$$



E. Dracon LC

$$\begin{array}{r} h \ m \ s \\ 19 \ 48 \ 34 \\ +110 \ 2 \\ \hline \end{array}$$

15 Argus

$$\begin{array}{r} h \ m \ s \\ 8 \ 2 \ 31 \\ -23 \ 58 \\ \hline \end{array}$$

Sun.

h m s

0 17 19

+1.53

1888

Mar. 24-25

B Tauri

h m s

5 18 50

+28 30

Mar. 25



*S. Cronus*
$$\begin{array}{r} h \ m \ s \\ 5 \ 25 \ 5.0 \\ - 0 \ 2.0 \end{array}$$
*S. Leforia*
$$\begin{array}{r} h \ m \ s \\ 5 \ 27 \ 32 \\ - 0 \ 17 \ 54 \end{array}$$
*S. Cronus*
$$\begin{array}{r} h \ m \ s \\ 5 \ 30 \ 14 \\ - 0 \ 17 \end{array}$$

*J. Dioneis**h m s*  
*5 34 39**- 2 0**1883**Mar. 25**K. Dioneis**h m s*  
*5 42 10**- 9 43**L. Dioneis**h m s*  
*5 48 47**+ 9 23*



$\sigma$  Sagittarii $\begin{array}{r} h \quad m \quad s \\ 18 \quad 47 \quad 54 \\ -26 \quad 26 \end{array}$  $\lambda$  Aquilae $\begin{array}{r} h \quad m \quad s \\ 19 \quad 0 \quad 0 \\ -5 \quad 1 \quad 3 \end{array}$  $\delta$  Draconis $\begin{array}{r} h \quad m \quad s \\ 19 \quad 13 \quad 32 \\ +67 \quad 27 \end{array}$

$\beta$  Cygnih m s  
19 25 58

+27 43

1888

Mar. 25

 $\delta$  Aquilaeh m s  
19 40 40

+10 20

 $\alpha$  Aquilaeh m s  
19 45 2

+8 24



$\beta$  Aquilae  
h m s  
19 49 32  
+ 6 4

Sun

h m s

0 30 57

0 1

+ 2 16

1883

Mar. 25

26

L. Can Min

h m s

6 39 57

0 1

- 16 33

Mar. 26



51 Cephei

h m s

6 44 42

+87 13

E Can. Maj.

h m s

6 53 59

-28 49

S Can. Maj.

h m s

7 3 36

-26 13

$\beta$  Cam Minh m s  
7 30 48

+28 51

1883

Mar. 26

 $\epsilon^2$  Gemmorh m s  
7 37 3

+23 9

 $\epsilon$  Cam Minh m s  
7 33 7

+28 19



B. Geminor

h m s  
7 38 5  
+ 38 19

Gr. 13 4/4

h m s  
7 46 10  
+ 34 15

$\gamma$  Aquilae $h m s$   
19 40 40  
+10 20

1883

Mar. 27

 $\alpha$  Aquilae $h m s$   
19 45 2  
+8 34 $\beta$  Aquilae $h m s$   
19 49 32  
+6 4



June

h m s

0 38 13

+ 0 13

1883

Nov. 27

38

3 Arctis

h m s

1 48 9

+ 20 14

Nov. 28

$\delta$  Andromh m s  
56 41

+41 46

1883

Nov. 28

 $\alpha$  Arietish m s  
2 0 33

+32 54

 $\alpha$  Taurih m s  
4 29 10

+16 16



*2 Camel*
$$\begin{array}{r} h \quad m \quad s \\ 4 \quad 42 \quad 35 \\ + 66 \quad 8 \end{array}$$
*1 Quinga*
$$\begin{array}{r} h \quad m \quad s \\ 4 \quad 49 \quad 19 \\ + 32 \quad 59 \end{array}$$
*Ellie Min LC*
$$\begin{array}{r} h \quad m \quad s \\ 16 \quad 58 \quad 0 \\ + 97 \quad 46 \end{array}$$

$\beta$  Eridani

h m s

5 2 3

-0 5 14

1883

Mar. 28

 $\alpha$  Aurigae

h m s

5 7 59

+45 52

 $\gamma$  Orionis

h m s

5 18 48

+6 15



*S. Orionis*
$$\begin{array}{r} h \ m \ s \\ 5 \ 35 \ 59 \\ -0 \ 33 \end{array}$$
*ι. Orionis*
$$\begin{array}{r} h \ m \ s \\ 5 \ 29 \ 40 \\ -5 \ 59 \end{array}$$
*α. Columbae*
$$\begin{array}{r} h \ m \ s \\ 5 \ 35 \ 23 \\ -34 \ 1 \end{array}$$

*K. P. ...**h m s*  
*5 42 10**- 9 43*

1883

*Mar. 28**S. Dracou L. C.**h m s*  
*19 12 33**+ 1 12 33**Jan. 13 74**h m s*  
*7 46 10**+ 9 4 13*



15 Argus

 $\begin{array}{r} h \ m \ s \\ 8 \ 2 \ 31 \\ - 38 \ 58 \end{array}$ 

X Cephei for L.C.

 $\begin{array}{r} h \ m \ s \\ 20 \ 12 \ 48 \\ + 102 \ 38 \end{array}$ 

Gr 3241 L.C.

 $\begin{array}{r} h \ m \ s \\ 20 \ 30 \ 30 \\ + 107 \ 52 \end{array}$

Br. 79 L.C.

h m s  
20 53 57

+89 53

1883

Mar. 28

w. Dracow

h m s  
17 37 38

+68 49

4' Dracow

h m s  
17 44 1

+72 12



$\gamma$  Draconis - $\begin{array}{r} h \ m \ s \\ 17 \ 53 \ 52 \\ 0 \\ +51 \ 31 \end{array}$ 

22 H Camel L.C.

 $\begin{array}{r} h \ m \ s \\ 6 \ 5 \ 57 \\ 0 \\ +110 \ 38 \end{array}$  $\delta$  Uls Min $\begin{array}{r} h \ m \ s \\ 18 \ 10 \ 31 \\ 0 \\ +86 \ 37 \end{array}$

*γ Serpentis**h m s*  
*18 15 13**- 2 56**1883**Mar. 28**ε Lyrae**h m s*  
*18 53 57**+ 38 41**δ Draconis**h m s*  
*19 12 32**+ 67 27*



*B. Lygni*
$$\begin{array}{r} h \ m \ s \\ 19 \ 36 \ 58 \\ + 27 \ 45 \\ \hline \end{array}$$
 *$\delta$  Aquilae*
$$\begin{array}{r} h \ m \ s \\ 19 \ 40 \ 40 \\ + 10 \ 20 \\ \hline \end{array}$$
 *$\alpha$  Aquilae*
$$\begin{array}{r} h \ m \ s \\ 19 \ 45 \ 2 \\ + 8 \ 34 \\ \hline \end{array}$$

$\odot$  Aquilae

h m s

20 5 14

- 0 10

1883

Mar. 28



Sun

$$\begin{array}{r} h \ m \ s \\ 0 \ 31 \ 51 \\ + \ 0 \ 1 \\ \hline + \ 8 \ 46 \end{array}$$

1883

Mar.  $\frac{28}{29}$ 

S Persei

$$\begin{array}{r} h \ m \ s \\ 3 \ 34 \ 35 \\ + \ 0 \ 1 \\ \hline + \ 4 \ 24 \end{array}$$

Mar. 29

$\gamma$  Taurih m s  
3 40 29

+23 44

1883

Mar. 29

 $\zeta$  Perseih m s  
3 46 44

+31 22

 $\epsilon$  Aurigaeh m s  
4 49 19

+22 29



$\alpha$  Aurigae $\begin{array}{r} h^m s \\ 5^{\circ} 7' 59'' \\ +45^{\circ} 52' \end{array}$  $\beta$  Orionis $\begin{array}{r} h^m s \\ 5^{\circ} 8' 52'' \\ -1^{\circ} 20' \end{array}$  $\beta$  Tauri $\begin{array}{r} h^m s \\ 5^{\circ} 18' 50'' \\ +28^{\circ} 30' \end{array}$

*S. Cronus**h m s*  
*5 25 59**-0 23**1883**Mar. 29**α. Sictoria**h m s*  
*5 27 32**-17 54**E. Cronus**h m s*  
*5 30 14**-1 17*



*S Cam Maj.*
$$\begin{array}{r} h \ m \ s \\ 7 \ 3 \ 36 \\ 0 \ 1 \\ -36 \ 12 \end{array}$$
*S Dracon LC.*
$$\begin{array}{r} h \ m \ s \\ 19 \ 12 \ 32 \\ 0 \ 1 \\ +112 \ 33 \end{array}$$
 *$\beta$  Cam Min*
$$\begin{array}{r} h \ m \ s \\ 7 \ 20 \ 48 \\ 0 \ 1 \\ +8 \ 31 \end{array}$$

$\alpha^2$  Geminorh m s  
y 27 3

+32 9

1888

Mar. 29

 $\alpha$  Can Minh m s  
y 33 7

+5 32

 $\beta$  Geminorh m s  
y 38 5

+38 19



Gr. 1374

 $\begin{array}{r} h \ m \ s \\ 7 \ 46 \ 10 \\ + 94 \ 13 \end{array}$ 

E. Dracon. L.C.

 $\begin{array}{r} h \ m \ s \\ 19 \ 48 \ 34 \\ + 110 \ 2 \end{array}$ 

15 Argus

 $\begin{array}{r} h \ m \ s \\ 8 \ 2 \ 31 \\ - 23 \ 58 \end{array}$

$\alpha$  Cephei spec L.C.h m s  
30 42 48

+102 58

1883

Mar. 29

 $\gamma$  3241 L.C.

h m s

30 50 30

+107 52

 $\beta$  79 L.C.

h m s

20 52 51

+99 53



$\omega$  Dracon $h m s$   
17 37 38  
+68° 49' $\phi'$  Dracon $h m s$   
17 44 1  
+72° 12' $\chi$  Dracon $h m s$   
17 53 52  
+51° 31'

22 H. Canab L.C.

 $\begin{matrix} h & m & s \\ 6 & 5 & 57 \end{matrix}$ 

+110 38

1883

Mar 29

S Urs Min.

 $\begin{matrix} h & m & s \\ 18 & 10 & 31 \end{matrix}$ 

+86 37

 $\eta$  Serpentic $\begin{matrix} h & m & s \\ 18 & 15 & 13 \end{matrix}$ 

-2 56



$\alpha$  Lyrae $h m s$   
18 32 57  
+38 41

$\alpha$  Lyrae

h m s

18 52 57

+38 41

1883

Mar 30

 $\sigma$  Sagittarii

h m s

18 47 57

-26 26

 $\lambda$  Aquilae

h m s

19 00 00

-5 13



S Draconis

h m s  
19 12 32  
+67 37

$\beta$  Cygni

h m s  
19 35 58  
+27 43

$\gamma$  Aquilae

h m s  
19 40 40  
+10 20

$\alpha$  Aquilae

h m s

19 45 2

+ 8 34

1883

Mar. 30

 $\beta$  Aquilae

h m s

19 49 32

+ 6 4

 $\theta$  Aquilae

h m s

20 5 14

- 1 10



$L^2$  Capricorn -

h m s

20 11 31

-12 54

Sun

$$\begin{array}{r} \text{h m s} \\ 0 \ 39 \ 8 \\ 0 \ 1 \\ + 4 \ 13 \end{array}$$

1883

Mar.  $\frac{30}{31}$  $\gamma$  Androm.
$$\begin{array}{r} \text{h m s} \\ 1 \ 56 \ 41 \\ 0 \ 1 \\ + 41 \ 46 \end{array}$$

Mar. 31



$\alpha$  Arietes

h m s

2 0 33

+23 54

Sun.

h m s

0 42 46

+4 36

1883

April

L Persei

h m s

3 15 56

+49 36



*S Persei**h m s*  
3 34 33  
+ 07 24*ζ Persei**h m s*  
3 46 44  
+ 31 33*ε Aurigae**h m s*  
4 49 19  
+ 32 59

$\beta$  Eridani

h m s

5 3 3

-5 12

1883

Apr. 1

 $\gamma$  Orionis

h m s

5 18 48

+6 15

 $\delta$  Orionis

h m s

5 25 59

-0 23



*u. Cronis*
$$\begin{array}{r} h \text{ m } s \\ 5 \text{ } 39 \text{ } 40 \\ - 0 \text{ } 1 \\ \hline 5 \text{ } 39 \end{array}$$
*γ Cronis*
$$\begin{array}{r} h \text{ m } s \\ 5 \text{ } 34 \text{ } 39 \\ - 0 \text{ } 1 \\ \hline 5 \text{ } 34 \end{array}$$
*K Cronis*
$$\begin{array}{r} h \text{ m } s \\ 5 \text{ } 42 \text{ } 10 \\ - 0 \text{ } 1 \\ \hline 5 \text{ } 43 \end{array}$$

$\alpha$  Orionis

h m s

5 48 47

+ 9 23

1883

Apr. 1

 $\eta$  Serpentis

h m s

18 15 13

- 2 56

 $\alpha$  Lyrae

h m s

18 32 57

+ 38 41



3-1 Cephei L.C.

h	m	s
6	44	42
+92 47		

σ Sagittarii

h	m	s
18	47	57
-36 36		

λ Aquilae

h	m	s
19	0	0
-5 3		

*SDracon**h m s*  
*19 12 32**+07 37**1883**Apr. 1**B. Lygna**h m s*  
*19 35 58**+37 43**γ Argulae**h m s*  
*19 40 40**+10 30*



$\alpha$  Aquilae

h m s  
19 45 2  
+ 8 34

$\beta$  Aquilae

h m s  
19 49 32  
+ 6 4

$\theta$  Aquilae

h m s  
20 5 14  
- 1 10

$\alpha^2$  Capricorni

h m s

20 11 31

-12 54

1883

Apr. 1.

 $\gamma$  Cygni

h m s

20 18 1

+39 53



Sun

$$\begin{array}{r} h \ m \ s \\ 0 \ 46 \ 35 \\ + 4 \ 59 \\ \hline \end{array}$$

1883

Apr.  $\frac{1}{2}$ 

L Tauri

$$\begin{array}{r} h \ m \ s \\ 4 \ 39 \ 10 \\ + 16 \ 16 \\ \hline \end{array}$$

Apr. 2

*1. Aurigae**h m s*  
*4 49 19**+32 59**1883**Apr. 2**2. Aurigae**h m s*  
*5 47 59**+45 52**3. Aurigae**h m s*  
*5 18 48**+16 15*



*L. Leforis**h m s*  
*5 27 32**- 12 54**E. Crissie**h m s*  
*5 30 14**- 9 17**L. Cass. Min.**h m s*  
*7 33 7**+ 5 32*

$\beta$  Gemmaeh m s  
38 5

+28 19

1883

Apr. 2

Gr. 1374

h m s  
46 10

+94 13

E Dracon LC

h m s  
19 48 34

+110 2



15 Argus  
h m s  
8 3 31  
-33 58

K Cephei L C  
h m s  
20 13 48  
+10 3 58

Gr. 3241 L C  
h m s  
20 30 50  
+10 7 52

$\beta_{79} LC$  $h m s$   
20 52 51 $+99^{\circ} 53'$ 

1883

Apr. 2

 $\alpha Ceph LC$  $h m s$   
31 15 48 $+117^{\circ} 55'$  $\alpha Hydrae$  $h m s$   
9 21 47 $-8^{\circ} 9'$



X Dracon

h m s

18 23 10

+92 41

X Lynce

h m s

18 02 57

+38 41

5-1 Cephei L.C.

h m s

6 44 43

+92 47

$\sigma$  Sagittarii $\begin{array}{r} h \quad m \quad s \\ 18 \quad 47 \quad 5.4 \\ -26 \quad 26 \end{array}$ 

1883

Apr. 2

 $\gamma$  Aquilae $\begin{array}{r} h \quad m \quad s \\ 19 \quad 0 \quad 0 \\ +13 \quad 42 \end{array}$  $\delta$  Draconis $\begin{array}{r} h \quad m \quad s \\ 19 \quad 12 \quad 32 \\ +67 \quad 37 \end{array}$



$\beta$  Cygni $\begin{array}{r} h \ m \ s \\ 19 \ 25 \ 58 \\ + 27 \ 43 \end{array}$  $\gamma$  Aquilae $\begin{array}{r} h \ m \ s \\ 19 \ 40 \ 40 \\ + 10 \ 20 \end{array}$  $\delta$  Aquilae $\begin{array}{r} h \ m \ s \\ 19 \ 45 \ 2 \\ + 8 \ 34 \end{array}$

$\beta$  Aquilae

h m s

19 49 32

+6 4

1883

Apr. 2

 $\theta$  Aquilae

h m s

20 5 14

-1 10

 $\alpha^2$  Capricorni

h m s

20 11 31

-12 54



1883phae-poj-1616

$\gamma$  Cygni  
h m s  
20 18 1  
+89 53

Sun.

$$\begin{array}{r} h \ m \ s \\ 0 \ 50 \ 3 \\ + 5 \ 22 \\ \hline \end{array}$$

1883

Apr. 3

L Com Min

$$\begin{array}{r} h \ m \ s \\ 7 \ 33 \ 7 \\ + 5 \ 32 \\ \hline \end{array}$$

Apr. 3



$\beta$  Geminor $\begin{array}{r} h \quad m \quad s \\ 7 \quad 38 \quad 5 \\ + 28 \quad 19 \end{array}$ 

Ga. 1374

 $\begin{array}{r} h \quad m \quad s \\ 7 \quad 46 \quad 10 \\ + 9 \quad 13 \end{array}$ 

E. Dracon. L.C.

 $\begin{array}{r} h \quad m \quad s \\ 19 \quad 48 \quad 34 \\ + 110 \quad 2 \end{array}$

15 Argues.

 $\begin{array}{r} h \ m \ s \\ 8 \ 2 \ 31 \end{array}$  $-33 \ 58$ 

1883

Apr. 3

Br. 79 LC.

 $\begin{array}{r} h \ m \ s \\ 20 \ 52 \ 51 \end{array}$  $+89 \ 50$  $\alpha$  Cephei LC $\begin{array}{r} h \ m \ s \\ 21 \ 15 \ 48 \end{array}$  $+117 \ 55$



$\alpha$  Hydrae $h^m s$   
9 31 47  
-8 9 $\chi$  Draconis $h^m s$   
18 33 10  
+9 41 $\alpha$  Lynce $h^m s$   
18 32 54  
+38 41

51 Cephei L C

h m s

6 44 42

+92 47

1883

Apr. 3

T Sagittarii

h m s

18 47 57

-26 36



*z Aquilae*
$$\begin{array}{r} h \ m \ s \\ 19 \ 0 \ 0 \\ + 13 \ 42 \end{array}$$
*S Draconis*
$$\begin{array}{r} h \ m \ s \\ 19 \ 12 \ 32 \\ + 6 \ 27 \end{array}$$
*B Cygni*
$$\begin{array}{r} h \ m \ s \\ 19 \ 35 \ 58 \\ + 2 \ 43 \end{array}$$

$\gamma$  Aquilae $\begin{array}{r} h \ m \ s \\ 19 \ 40 \ 40 \\ + 10 \ 20 \end{array}$ 

1883

Apr. 3

 $\alpha$  Aquilae $\begin{array}{r} h \ m \ s \\ 19 \ 45 \ 2 \\ + 8 \ 34 \end{array}$  $\beta$  Aquilae $\begin{array}{r} h \ m \ s \\ 19 \ 49 \ 32 \\ + 6 \ 4 \end{array}$



$\theta$  Aquilae

h	m	s
30	5	14
0		1
-1		10

 $\alpha^2$  Capricorn

h	m	s
20	11	31
0		1
-12		54

 $\delta$  Cygni

h	m	s
20	18	1
0		1
+39		50

$\alpha$  Aquariih m s  
21 59 45

-0 58

1883

Apr 8

 $\delta$  Cassih m s  
0 49 38

+60 5



Sun.

h m s

0 58 42

+ 5 45

1883

Apr. 2  
4

V. Auburn

h m s

1 56 41

+ 4 46

Apr. 4

Jan. 13/4

h m s

46 10

+ 9/4 10

1883

Apr. 4

15 Argus

h m s

p 2 31

- 23 58

K. Ceph. pr. L. C.

h m s

20 12 48

+ 10 3 38



Gr 3241 LC

h m s

30 30 30

+10<sup>h</sup> 4<sup>m</sup> 52<sup>s</sup>

Dn. 79. L.C.

h m s

20 53 51

+99 53

1883

Apr. 4

 $\alpha$  Cephei L.C.

h m s

21 15 48

+117 55



$\alpha$  Hydrae

h	m	s
9	21	47
-8	9	

 $\theta$  Urs. Maj.

h	m	s
9	24	56
+52	13	

$\delta$  Cass.

h m s

0 49 38

+60 5

1883

Apr 5

Sun.

h m s

1 01 01

+6 31



$\beta$  Gem

h m s

6 15 29

+22 34

Apr 6

 $\gamma$  Gem

h m s

6 30 54

+16 30

 $\alpha$  Crv Min

h m s

6 39 54

-16 23

*S Com. Maj*
$$\begin{array}{r} h \ m \ s \\ 7 \ 3 \ 36 \\ 0 \ 1 \\ - 26 \ 12 \end{array}$$

1883

Apr. 6

*S Dracon. L.C.*
$$\begin{array}{r} h \ m \ s \\ 19 \ 13 \ 32 \\ 0 \ 1 \\ + 112 \ 33 \end{array}$$
*B Com. Min*
$$\begin{array}{r} h \ m \ s \\ 7 \ 20 \ 48 \\ 0 \ 1 \\ + 8 \ 31 \end{array}$$



$\alpha^2$  Geminor

h m s  
7 27 8  
10 1  
+32 9

$\alpha^1$  B Geminor

h m s  
7 38 5  
0 1  
+28 19

E Diakon LG

h m s  
19 48 34  
0 1  
+110 03

15 Argus.

h m s  
p 2 31

-23 58

1883

Apr. 6

K Cephei LC

h m s  
20 13 48

+02 38

Gr 3241

h m s  
20 30 00

+107 52



Bm 79 LC

$$\begin{array}{r} h \quad m \quad s \\ 20 \quad 52 \quad 51 \\ 0 \\ +99 \quad 53 \end{array}$$
 $\alpha$  Cephei L.C.
$$\begin{array}{r} h \quad m \quad s \\ 21 \quad 15 \quad 48 \\ 0 \\ +117 \quad 55 \end{array}$$
 $\alpha$  Hydorae
$$\begin{array}{r} h \quad m \quad s \\ 9 \quad 21 \quad 47 \\ 0 \\ -8 \quad 9 \end{array}$$

O Uu Maj

h m s

9 24 56

+52 13

1883

Apr. 6



$\alpha$  Aurigaeh m s  
5 7 59

+45 52

1883

April

 $\beta$  Taurih m s  
5 18 50

+28 30

 $\delta$  Orionish m s  
5 35 59

-6 23

*1. Orionis**h m s*  
*5 29 40**- 5 49**1883**Apr. 8**5 Orionis**h m s*  
*5 34 39**- 2 1**K Orionis**h m s*  
*5 42 10**- 9 43*



$\alpha$  Orionis $\begin{array}{r} h\ m\ s \\ 5\ 48\ 47 \\ +\ 2\ 33 \\ \hline \end{array}$ 

Gr. 3241

 $\begin{array}{r} h\ m\ s \\ 8\ 30\ 30 \\ +\ 10\ 52 \\ \hline \end{array}$ 

Br. 49

 $\begin{array}{r} h\ m\ s \\ 8\ 52\ 51 \\ +\ 9\ 53 \\ \hline \end{array}$

$\alpha$  Cephei

h m s

9 15 48

117 55

1883

Apr. 8

 $\alpha$  Hydrae

h m s

9 21 47

- 8 9

 $\theta$  Urs. Maj

h m s

9 24 56

+ 52 13



$\chi$  Draconis $h m s$   
18 23 10  
+ 92 41 $\chi$  Lyrae $h m s$   
18 32 57  
+ 38 41

51 Cephei LC.

h	m	s
6	44	42

+93	1	47
-----	---	----

1883

apr. 8

5 Sagittarii

h	m	s
18	47	57

-26	26	
-----	----	--



$\lambda$  Aquilae $\begin{array}{r} h \quad m \quad s \\ 19 \quad 0 \quad 0 \\ - \quad 0 \quad 3 \end{array}$  $\delta$  Draconis $\begin{array}{r} h \quad m \quad s \\ 19 \quad 13 \quad 32 \\ + \quad 6 \quad 2 \end{array}$  $\beta$  Cygni $\begin{array}{r} h \quad m \quad s \\ 19 \quad 35 \quad 58 \\ + \quad 2 \quad 43 \end{array}$

$\delta$  Aquilae

h	m	s
19	40	40
	+10	20

1883

Apr. 8

 $\alpha$  Aquilae

h	m	s
19	45	2
	+8	34

 $\beta$  Aquilae

h	m	s
19	49	32
	+6	17



$\alpha^2$  Capricorni

h m s  
20 11 31  
0 1  
-12 54

$\gamma$  Cygni

h m s  
20 10 1  
0 1  
+39 53

$\alpha$  Cygni

h m s  
20 37 36  
0 1  
+24 52

E Cygni

h m s

20 41 24

+33 22

1883

Apr. 8



X Cass

h m s  
0 49 38  
+60 5

1883

Apr. 8

Sum

h m s  
4 11 59  
+9 38

$\gamma$  Androm. $h^m s$   
56 41 $+41^{\circ} 46'$ 

1888

Apr. 9

 $\beta$  Orionis $h^m s$   
5 8 52 $-8^{\circ} 30'$  $\gamma$  Orionis $h^m s$   
5 18 48 $+6^{\circ} 15'$



$\alpha$  Leporis - $\begin{array}{r} h \ m \ s \\ 5 \ 27 \ 32 \\ -9 \ 54 \end{array}$  $\epsilon$  Orionis $\begin{array}{r} h \ m \ s \\ 5 \ 30 \ 14 \\ -9 \ 17 \end{array}$  $\kappa$  Orionis $\begin{array}{r} h \ m \ s \\ 5 \ 42 \ 10 \\ -9 \ 43 \end{array}$

*L. Cronis*
$$\begin{array}{r} h \ m \ s \\ 5 \ 48 \ 47 \\ + \ 9 \ 23 \\ \hline \end{array}$$

1883

Apr. 9

*Gr. 1374*
$$\begin{array}{r} h \ m \ s \\ 7 \ 46 \ 10 \\ + \ 9 \ 4 \ 13 \\ \hline \end{array}$$
*E. Dracon. LD*
$$\begin{array}{r} h \ m \ s \\ 19 \ 48 \ 34 \\ + \ 9 \ 0 \ 2 \\ \hline \end{array}$$



15 August

h m s

8 2 31

-28 58

K Cephei L.C.

h m s

20 13 48

+102 38

Gr. 3241 L.C.

h m s

20 30 30

+104 52

$\beta$  79 L.C.h m s  
20 52 51

+99 53

1883

Apr 9

 $\alpha$  Cephei L.C.h m s  
21 15 48

+117 55

 $\alpha$  Hydraeh m s  
9 21 47

-8 9



O Ura. Maj.

$$\begin{array}{r} h \ m \ s \\ 9 \ 24 \ 56 \\ 0 \ 1 \\ +52 \ 13 \end{array}$$
 $\alpha$  Lyrae.
$$\begin{array}{r} h \ m \ s \\ 18 \ 22 \ 57 \\ 0 \ 1 \\ +38 \ 41 \end{array}$$

51 Cephei L.C.

$$\begin{array}{r} h \ m \ s \\ 6 \ 44 \ 42 \\ 0 \ 1 \\ +92 \ 47 \end{array}$$

Sun

h m s

1 15 40

+ 8 0

1883

Apr. 9

10

 $\beta$  Eridani

h m s

5 2 3

- 5 14

Apr. 10



$\beta$  Orionis $\begin{array}{r} h \quad m \quad s \\ 5 \quad 8 \quad 52 \\ - 0 \quad 20 \end{array}$  $\beta$  Tauri $\begin{array}{r} h \quad m \quad s \\ 5 \quad 18 \quad 50 \\ + 28 \quad 50 \end{array}$  $\delta$  Orionis $\begin{array}{r} h \quad m \quad s \\ 5 \quad 25 \quad 59 \\ - 0 \quad 23 \end{array}$

1. *Orion*

h m s

5 29 40

-5 59

1883

Apr. 10

3. *Orion*

h m s

5 34 39

-2 0

K. *Orion*

h m s

5 42 10

-9 43



L Orionis

h m s  
5 48 47  
+7 23

$\mu$  Gemmor

h m s  
6 15 39  
+22 34

X Dracon L.C.

h m s  
18 23 10  
+107 19

$\gamma$  Geminor

h m s

6 30 54

+16 30

1883

Apr. 10

 $\alpha$  Can. Maj.

h m s

6 39 57

-16 33

 $\delta$  Can. Maj.

h m s

7 3 56

-36 12



S. Dracow. L.C.

from 2

19 12 32

+1/2 33

$\gamma$  Cass.li m 2  
0 49 38

+60 5

1883

Apr.  $\frac{11}{12}$



X Draconis

h m s

6 23 10

+107 19

1883

Apr 13

γ Gemmae

h m s

6 30 54

+16 30

α Cass. Major

h m s

6 39 54

-16 33

E Cam Maj

h m s

6 53 59

-28 49

1883

Apr 13

S Cam Maj

h m s

7 3 36

-26 12



















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