

1894phae.proj:186K

KG
11366
n.560

Variable Star Obs'n
H.C.B. Ledger
1906-1-24

Variable Stars
1894. H.C.B.

No

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31

1894-1895

Variable Stars & Observations H.B.

No.	Region	R.A.	Dec.	Page	No.	Region	R.A.	Dec.	Page
1	^S Min Sculptor	0 10.4	-32 36	58	32	✓ T Car Auct	18 55.3	-37.5	64
2	R "	1 22.4	-33		33	✓ Min Sagittarii	19 49.7	-29 26	44
3	- Horologium	2 49.7	-50 21		34	✓ — "	19 51.8	-42 7	48
4	R Reticuli	4 32.5	-63 14		35	✓ — "	20 9.4	-39 29	50
5	R Doradus	4 35.6	-62 16		36	✓ R Pis Auct	22 12.3	-30 6	
6	- Carli	4 37.1	-38 26		37	✓ R Eridi	22 28.9	-67 48	72
7	- Octantis	5 56.8	-86 26		38	✓ R Phoenicis	23 51.3	-50 21	54
8	L ₂ Puppis	7 10.5	-44 29	* 2	39	✓ — Tuccanae	23 52.2	-65 56	
9	S "	7 43.8	-47 52	* 8	40	✓	13 36.0	-33 6	* 34
10	E Delorum	8 34.4	-47 0	* 4	41	✓	14 46.7	-46 12	* 58
11	N "	9 28.2	-56 36	* 14	42	✓	19 46.8	-59 27	66
12	✓ R Carinae	9 29.7	-62 21	* 10	43	✓	20 38.9	-29 9	74
13	✓ L "	9 42.5	-62 3	* 6	44	✓ — Pictoris	4 43.5	-49 25	
14	✓ Min —	9 54.8	-58 23	* 18	45	✓ R Columbae	5 47.2	-29 19	
15	✓ R Antares	10 5.5	-37 14	* 20	46	✓ — Scorpii	17 35.2	-43 41	* 42
16	✓ S Carinae	10 6.2	-61 4	* 24	47	✓ — Pavonis	18 3.3	-63 38	* 46
17	✓ Min 2	10 10.	-58 21	16	48	✓ — Telocopi	20 7.6	-47 15	74
18	✓ N Argus	10 41.2	-59 10	* 32	49	✓ — Eridi	20 47.1	-54 48	68
19	✓ Min — Centauri	12 28.0	-54 6	* 26	50	✓ — Octantis	20 53.5	-82 36	70
20	✓ R. Muscae	12 36.0	-68 51	18	51	✓ — Aquarii	22 10.7	-21 40	
21	✓ R Centauri	14 9.4	-59 27	22	52	Librae	15 18.5	-22 34	* 52
22	✓ R. Tri Auct	15 10.8	-66 8	30	53				
23	✓ Min Nova Normae	15 22	-50		54				
24	✓ (R) Lupi	15 47.0	-36 0	56	55				
25	✓ — Scorpii	16 48.4	-44 57	* 36	56				
26	✓ Min (R) "	16 50.3	-30 26	62	57				
27	✓ — "	16 56.8	-36 46	60	58				
28	✓ — Octantis	17 25.9	-86 46	* 38	59				
29	✓ γ Pavonis	18 46.6	-67 21	* 40	60				
30	✓ S Car Auct	18 54.4	-37 5	64	61				
31	✓ R "	18 55.2	-37 0	64	62				

Those with the asterisk have been observed

* Signific Sequence made

#8

 L_2 Puppis. #9197

h	m	Dec.	mag	min	Period	class
7.	10.5	-44.29	3.5	6.3	136.0	= II



✓ 9652_5^a 10343_5^b 9176_3^c 9244_5^d $\{9135_3^e\}$ 8936_3^f 9243_3^g

a_5 b_5 c_3 d_3 e_3 f_3 g_5 h

✓

Month Date Hour

May 19th 8.30

10343, 9197₄ 9186

1895

V April 20 10-15

C₁ Var₂ D

Look up 9194 Var same name.

#10 E Delorum.

RA. 8 34 H — 47.0

A₃ B₂ C₃ D₃ E₃ F₃ G.

1895—

April 18 ✓ 945— Observed Var. identified surely but not
time to make sequence —

Apr 20 ✓ 11, 15. D_2 Var, E

(#13)

l Carinae. # 13336

R.A.	Dec.	Mag	Min	Period	Star
9 ^h 42.5 ^m	-62.3	37	52	31.0	II?

13389₅ 12175₃ 12557₃₄ 13112₃ 13217₂ 12782

A₅ B₃ C₂ D₂ E₃ F

↓

Month	Date	Time
May	26	8.50

13112,
~~13112~~ 13336 13117
 2

✓ 1895

April	17 TH	9.30
-------	------------------	------

C, Van, D.

9

S. Pappis

7 43.8 — 47.52 (1900)

 a_3 B_3 C_8 D_2 E_3 F_2 G_3 H

✓

✓ 1895
April

20th

9 30

E₂ Var, 7.

(#12)

R Carinae # 13073

R.A.	Dec	Mag	Min	Period	Class
9. 29.7	-62.21	4.3	10.	312.1	II

12557₆ 13217₃ 12782₃ 12984₃ 13006

a₅ B₃ c₂ D₂ E₃ F₅ G₂ H₂ I₂ K₂ L₂ M₂ n₂ o₅ p₂.

Sequence down to F

✓

found on #11, the same
as used for N. Vel + L. Carinae¹³.

Month	Date	Hour	
May	31	10 30	12984 ₂ 13073, 13006
1895 April	~ 17 th	9,30	Observed Var, but not time to make sequence. should estimate about 7 th May.
"	~ 18	8 35	4 ₂ Var ₃ G.

#14

— Carinae

 $\gamma^k 54.8^m - 58^\circ 23'$ $A_3^4 B_3 C_2 D_3^4 E_3^2 \gamma$

✓

1895

May = 10^h = 8-9 ✓C, Var, Φ D

"

13

7.30 ✓

S, Var₃ E

(#11)

M. Velorum

R.A.	Dec	Mag	Min.
9 29.7	61.14	4.3	
9 28.2	-56.36	3.4	4.4.

13389₃ 13593A₅ B₃ C₂ D₂ E

~

Wants	Date	Hour
-------	------	------

July

6th

8.0

Star over 5th west & therefore seen, poor.

✓ 1895

April 17

17th

9 30

1888₂ "Var", 13593 -

A₅ Var_{1/2} B (Var + B very near same)

#17

Region of New ?

R.A. $15^{\text{h}} 10^{\text{m}} 4$ — 56.21 Mag 9.4 Period 383

3 May 1895 [✓] 1st 8.00 Identified region but star not visible in 5-mic

(# 20)

R. Muscae # 17263

	R.A.	Dec	Mag	Min
	12.34	68.51	6.6	7.4
Obs.	12.34	68.43		

1 2

A B

A' A B C D E

3 0 4 0 3

Month	Date	Hour
-------	------	------

July 6	6 ¹⁵ ₄	9 510
--------	------------------------------	-------

17344
 Since grade as $\pm F$ in chart.
 This decision given after looking carefully through
 5" telescope. In field glass it cannot be
 a triple brighter

" 23	23 ⁵	8-9	17344 1, R. 2	17170 (?)
------	-----------------	-----	------------------	-----------

1895

May	✓ 16	9 45
-----	------	------

A₂' Var, A, S.

July	x 15	8 30
------	------	------

A₂' Var, A

Aug	✓ 6	8 00
-----	-----	------

A₁ Var, C

"	✓ 21	7 20
---	------	------

A₂' Var, A

#15

R. Aulicr.

	10	5.5	—	37	14	Max	Min
agc.	10	4.22	—	37	7	6.5	<8

~~Sequence plate confirmed 10 + 10~~

~~a₃ B₁ b₃ D₃ E₃ F~~

✓

1895

May [✓] 10 9 40 D_2 var, E." [✓] 13 9 50 E_0 var $\frac{7}{3}$

([#]21)

R. Centauri.

R.H. Dec

14. 9.4 -59.27 1900

14. 7.6 -59.20 asc.

1 2

simple star 18 ft. than B.

A B C D E F G H K L M N
5 2 4 4 2 3 3 2 3 2

✓

Day Month date Year Hour

Monday July 23^d 1894 8^h 59^m

1, RE₂ 2

1895

May	✓	17 th	9 30	No Var (the same grade)
July	✓	15	10 55	f ₁ Var, G
Aug 5	✓	5	10 00	B ₃ Var ₂ C
" 21	✓	21	8 10	B ₄ Var, C
Sep 10	✓	10	9 00	B ₃ Var ₂ C

#16

S. carnica

10^k 6^m 2 — 61° 4' Max Min
(1900) 6.2 9

a $\overset{13947}{B}$ C D $\overset{4}{E}$ F G
 3 4 3 3 3

1895-

May 11[✓] 8 PM.E, Var₁ 7" 13[✓] 9 .E, Var₃ 7

E. Cent

(*19)

Region of — Centauri. (New)

R.H.

Dec.

1900

12 28.0

-54.6

approx. etc.

12 27.0

-54.3

1 2 3 4 5 6 7 8

16992

17078

16960

17107

A

B

C

D

E

F

G

H

K

5

5

5

5

3

2

2

3

Month Day hour

1894

July 24 8-9 The same mag as ~~8~~ 8

1895

May 1st 9- ✓ $10_3 \text{ Var } 21 \text{ E}$

July 15 7 30^v Var barely visible in 8' K_2 Var

Aug 6 9 00^v Var not visible in 8' (full moon)

" 12 7 30^v Var not visible in 8' (no moon seen, good)

41

S
— Lupi $14^h 46^m 7^s_{(1900)} - 46^\circ 12'$ $B_3 C_3 D_3 E_3 F_3 G_3 H_3$

✓

1895-

May $1^{\frac{25}{2}}$ v 11.00 Var same as E

July 20 v 10.30 F_1 , Var, G_1

Aug 5 v 9.30 G_0 V (equal)

Aug 21 v 8.30 Var just visible in 8" ~~HH~~, Var

~~Sep 7 8.45 var not visible.~~

Sept 10 v 8.35 var not visible

(#22)

R. Tri. Aust.

	<i>R. A.</i>	<i>Dec.</i>	<i>Max</i>	<i>Min</i>	<i>Period</i>	<i>of</i>
<i>1900</i>	<i>15 10.8</i>	<i>66.8</i>	<i>6.6</i>	<i>8.0</i>	<i>3.40</i>	<i>IV</i>
<i>all</i>	<i>15 8.36</i>	<i>66.2</i>				

$\frac{1}{4}$ — $\frac{2}{8}$ — $\frac{3}{3}$

$\frac{a}{5}$ $\frac{b}{3}$ $\frac{c}{4}$ $\frac{d}{2}$

Month	Day	hour		
July	30	9 510	2_2 R.T.H. ₁	3
or Sept	3	8-9	2_1 R.T.H. ₂	3

field glass only.
5' not in order

1895-

May	✓ 17	10 45-	A_3 Var ₂ B
July	✓ 16	7 45	A_2 Var ₃ B
Aug	✓ 5-	7 30	A_4 Var ₁ B
Aug	✓ 21	9 00	Var = B
Sep	✓ 7	8 30	B_2 Var ₁ C

#18

M Argus,

				Max	Min
1900	10 41.2	59 10	>1	74	
1875	10 40.2	59 2			

A B C D E F G H

5 3 3

1895

May 14^v 8-45 $\frac{F}{2}$ Var, G.July 11th ^v 7³⁰₄₅ $\frac{F}{2}$ Var, G.

#40

 $13^h 36^m - 33^{\circ} 6'$

α β γ δ ϵ ζ η
 3 3 4 0

1895-

May 16 9^r C₁ Var₁ D.July 15 10^r E₂ Var₂ ~~D~~ FAug 6 9-15^r E₂ V₂ FAug 21 8 0^r C₂ Var₁ D.

(#25)

— Scorpii
1648.4 — 44.57

A₄ B₅ C₃ D₃ E₃ F₆ G₁



Month	Date	Hour	
Aug	29 th	8-10	22819, Var ₃ D, (22795-?)
1895- May	27 th	✓ 10	B ₃ Var ₂ C
July	20	✓ 9.	C ₁ Var ₂ D.
Aug	5-	✓ 10 15	D ₀ Var ₃ E (equal with D.)
"	21	✓ 10 10	E ₀ Var (equal with E)
Sep	9	✓ 9 15	F ₂ Var ₄ G.

#28

— Octantis

 $17^h 25^m.9 - 86^\circ 46'$ $H_0 - P_3 \quad b_3 \quad D_3 \quad E_3 \quad F_3 \quad H$

✓

1895

May 29 ✓ 10.00 C₂ Var, D.July 24 ✓ 830 H₂ Var. barely visible but identified sureAug 7 ✓ 740 Var not visible in A' a clear
dark night before moon has risen
+ seeing Jucé,
region sure

Aug 22 ✓ 1030 Var not to be seen

Sept 7 ✓ 845 " " " "

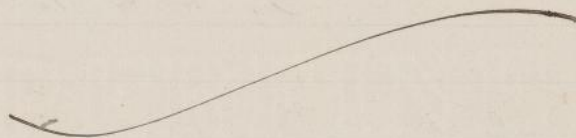
(729)

K. Parnis.

	R.A.	Dec.
(1900)	18 46.6	— 67 21
A.S.C.	18 44.0	— 67 23

Mag	M _{ini}	Period	Jan	A.S.C. No.
4.0	5.5	9.10	IV	25786

A_6 B_6 Le_6 D_5 E marked stars in Catalogue (Map)



Month	Date	Hour.		
Aug	30	10.4	25692 ₃ 25786 ₇ 26091	
Sept	3	8.40	25692 ₁ 25786 ₉ 26091	
1895-				
May	27	✓ 11	C ₃ Var ₃ D	
July	5	✓ 8	C ₂ Var ₄ D	
Aug	22	✓ 11 20	B ₃ Var ₃ C	
Sept	9	✓ 10 45	B ₄ Var ₂ C	seeing rather poor
"	10	✓ 8 15	Var = C	seeing good
Oct	31 st	7.30	A ₁ Var ₄ E	full moon

#46

— Scorpii

(1900)	17 ^h	35 ^m .2	— 43° 41'
(1875)	17	33.4	— 43 38

C_3 D_3 E_3 F_3 G_3 H_3 K_3

H_3 is star close to Var-

K. L.

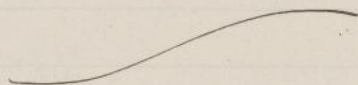
✓

1895
 May 28 ✓ 10-11 G_3 Var₂ H₁ (?) Observation no good
 made on wrong star.
 " 29 ✓ 1030 H₃ Var Var is on the extreme
 Aug. 5 ✓ 1245 H₀ Var edge of visibility in 8"
 (equal)
 " 22 ✓ 1100 G_3 Var₂ H₁
 Sep 7 ✓ 900 G_1 Var₄ H₁
 Oct 31 8,05 D_1 Var₂ E full moon

#33

Sagittarii "New" A.C.C. No. 27271

19497 — 29.26

g₄ s₄ T

✓ 1894

Aug

31

955

27284₂ Var₅ A1895

✓ 1895

✓ Sept

28

84

var = 8

#47

R
— Pavonis $18^h 03^m - 63^\circ 38'$

sequence intended Aug 12

A B C D E F G H
 5 5 2 3 3 3 3

✓

1895-

May 29 ✓ 1100 D_1 var E_2
 July 25 ✓ 900 Not visible in '8'
 Aug 5 ✓ 10 55 " " " (full moon)
 Aug 12 ✓ 7 45 Var extreme verge of visibility.
 H_2 Var, no moon, seeing fine.
 Aug 22 ✓ 1105 Var not seen, night rather hazy
 Sept 9 ✓ 1030 E_2 Var, \neq

" 1

#34

— Sagittarii

19 51.8 — 42.7

Sept 25/95 $f_3 g_4^h$

~~~~~

1894

Aug 31 11 Var same as 27/11

Sep 3 3 10 Var same as 27/11 possibly 1 grade brighter  
only seen this full moon  
& seen, rather poor.

1895

✓ Sept 28<sup>th</sup> 8.15 Var = gOct - 31 - 9.00  $F_1$  Var  $_2$  G, full moon.

(~~14~~ 35)

— Sagittarii

20 9.4 — 39.29

Sept 28/95—

S<sub>4</sub> T<sub>3</sub> U<sub>3</sub> V<sub>5</sub> W

~~~~~


Month	Date	Hour
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Sept	4	P.M. 10 +
------	---	--------------

✓ 1₃ 2₂ Var 3₃

1895

Rep	28	1200
-----	----	------

Var = V

#52

Var in Librae

15^h 78^m 0^s — 22° 34' (1900)

α'_3 α_3 β_3 γ_5 δ_3 ϵ_3 ζ

1895

May	31	✓	9	C_2 Var ₃ C D
July	25	✓	10	A' , Var ₂ A
Aug	5	✓	10	Var ₀ A (equal)
Aug	21	✓	9.20	$C = Var$
Sept	10	✓	1000	C_4 Var ₁ D

(#38)

R. Phoenix

				Mag	Min.	Class
23	61.3	—	5021	8.5(?)	11(?)	<u>II</u>

Month Date Hour -

Sept 4 11:30 Var E 6.10 0.2

#24

R. Lupi.

$$15^{\circ}45'4'' - 35^{\circ}55'3''$$

9-11

$$A_8 \quad B_3 \quad C_3 \quad D_2 \quad E_3 \quad F_4 \quad G_3 \quad H_2 \quad K$$

✓

1895[✓]Aug 5 - 9:20 E_2 var, F_1 Aug 21 ✓ 9:30 F_3 var, G_1 Sept 10[✓] 9:30 h_1 var, K

#1

'New' Sculptor. C.C. No 137

 $\alpha^h 10.4 - 32^\circ 36' (1901)$ $\alpha^h 09.05 - 32^\circ 44.4' (1875)$

1895(?)

Month Date Hour

Nov 30 9-11 — 182 Var 176 V

#27

R. Scorpi

16 56.8 — 36, 46



1895

Aug 5th 12 vVar not visible
in 8' — full moon —

Aug 12 11 30 v

Var not visible in 8' (new moon)

" 21 11 10 v

Var not visible in 8' no moon
see good

Sp 9 9 00 v

" " " " "

#26

New Var in Scorpiu

 $16^h 50^m 3$ $-30^m 26'$ (1900)

a. ₄ B. ₃ b. ₃ d. ₃ e. ₃ f. ₆ g. ₃ h. ₃ k. ₃ l.

✓

1895 ✓

Aug 6 12.20

 $K_1 \text{ var}_2 l$

" 21 ✓ 10.20

 $K_2 \text{ var}_1 l$

Sept 9 ✓ 10.00

 $K = \text{var}$

#30
31
32

S. Cor Aueb	18528	—	37.7
R " "	18535	—	37.7
J " "	18536	—	37.7

} 1875

a B b ~~d~~ E 9 K
3 2 3 3 4 3

✓

1895
 Aug ✓ 12 10.30 $\delta_2 \delta_1 K$
 " ✓ " " $H_2 R_1 \delta$
 " ✓ " " J not visible.

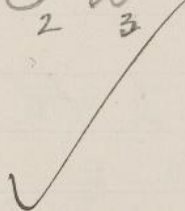
Sept ✓ 10 1000
 ✓
 ✓
 S not visible
 R extreme edge of visibility
 T not visible
 } seeing rather poor

" ✓ 10 830
 ✓
 ✓
 $\delta_2 \delta_1 \delta$
 $\delta_1 R_2 K$
 T not visible
 } seeing good.

#42)

19 46.8 - 59.27
19 44.39 - 59.3055

a₄ B₃ C₂ d₃ E₂ F.



1895Sept $\sqrt{16}$ 9 a_1 var₃ BOct 31^{st} 8-30 var = C full moon

49

20 47.7 — 54 48
21 47.1 — 54 47.7

A_2 B_5 C_4 D_3 E
~~~~~



1895—

Sept 16  $\sqrt{930}$  $\sigma, \text{var}_2 \approx$ Oct 31<sup>st</sup> 11.00

Var not vis. Full moon

~~#~~ 50

- Octantis

20 53.5 - 82 36

$$a_3 \quad b_4 \quad c_2 \quad d_4 \quad e_0 \quad f_3 \quad g_3 \quad h_3 \quad i$$

✓

1895  
Sept 16 10 30  $I_2$  Var, G

Oct 31 11 30 Var = 13. Full moon -



#37

TR Indi.

 $22^h 28.9 \text{ --- } 67^m 48^s \quad (1900)$ 
 $O_3 \quad D_4 \quad E_3 \quad F_3 \quad G_3 \quad H_4 \quad K_3 \quad l$ 


1895Sep 16<sup>Y</sup> 11 30 D<sub>3</sub> Var, EOct 31<sup>st</sup> 10 20 H, Var<sub>3</sub> K full moon

#43 ✓

20 32.3

-29 14

 $B_4 C$ 

#48 ✓

— Telescopii

20 0.7.6 — 47.15



1895 ✓

Sept 28 9<sup>00</sup> Var not vis. moon  $\frac{2}{3}$  full.

Oct 31 - 9-30 B<sub>2</sub> Var<sub>2</sub> C full moon

✓ Sept 28 9<sup>35</sup> Var not vis. moon  $\frac{2}{3}$  full.

Ledgered  
to here.







1624rhae.proj.1848