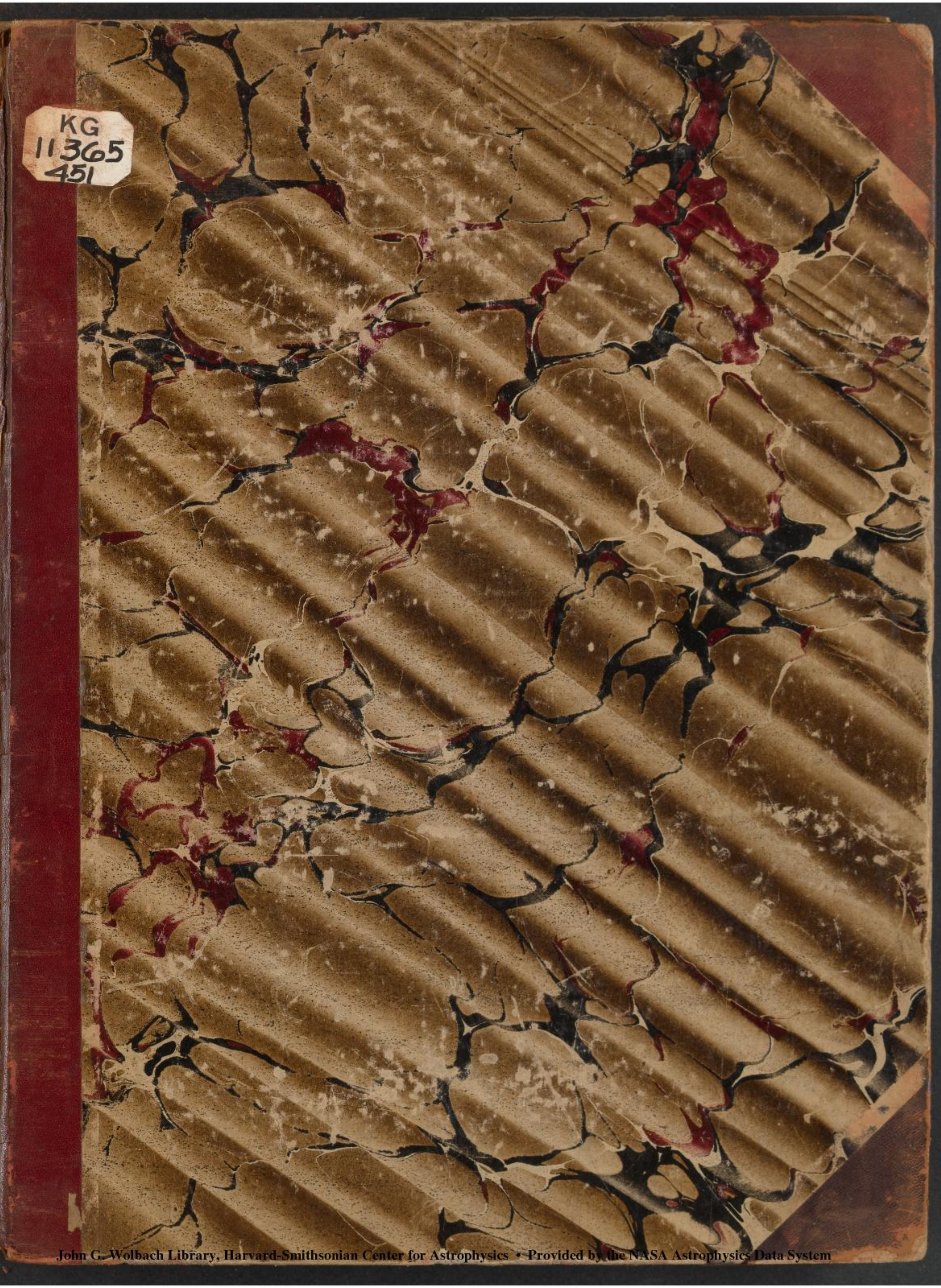

KG
11365
451

KG11365.451

West Equatorial

Record

W. M. Reed

KG11365.451

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Thursday July 19 1894

9.0 No aurora clouds on N horizon

5338 √ U Bootis atmos. hazy.

9.3 b = v

v 2-3 v

v = 9.5

haze makes obs. difficult,

√ 4791 S Canum Venatici

9.6 m 3 v

v 4 0

v = 9.

M.

4 29.5
13 . 8.5
17 38.0

Friday July 20 1894

h m

9:10 Aurora

Arch faint

alt of lower Edge 12° at N.

Thickness 6°.

Slight clouds in sky.

R Ursae Maj.

9.5 g1v

v=7.5.

21.2
590
8.02

S Ursae Maj

9.8 e–v

v5f

v=7.5

12.9
14.1
13.5
676
8.11

clouds may affect obs.

T Ursae Maj

9.9 v=e

v4f

v=7.5

obs. very doubtful.

9:55 Aurora practically disappeared. only mere traces left.

S Bootis

10.0 g2v

v4k

v=9.5

Mr

10.1 5190 R Camelop

Invisible

Friday July 20 1894

10.2 7220 √ S Cygni M
Invisible

7169 √ T Cephei
10.3 d 2 v
v 5 e
v = 6.5

10.5 7779 √ S Cephei M
d 2-3 v
v 4 e
v = 8.1

color makes var very difficult to obs.
sometimes I think d = v and then ? d 4-5 v

11.0 No Aurora M
Clouds on horizon.

F 20
S 1
Sm 2
R 3
T 4

Tuesday July 24 1894

9.0 √ Slevo R Cassiop
d 5 v
v 2 e'
(v 7-8 e)
v = 6.0

No Aurora.

9.2 432 √ S Cassiop
o = v
v 4 h
v = 9.5

Meteor
slow white g^{mgni} motion S.

9:11 S.T. $17^h 35^m$ / h a $7^h 36^m$ W $\alpha = 1^h 12^m$ $\delta = +72^\circ$

9.3 10~~6~~9 √ T Cassiop
g $\overset{2}{\cancel{3}}$ v
v $\underset{3}{\cancel{4}}$ h
v = 8.4

9.5 7779 √ S Cephei
d 2 v
v 5 e
v = 8.

9.6 7609 √ T Cephei
d 2 v
v 3 e
v = 6.

9.9 √ R Lyrae
v 1 k
ζ 2 v
v = 5

Tuesday / July 24 1894

10.1 5511 – Sitae Σ

v = n

v seen by glimpses.

v = 10.

5704 RR Sitae

10.2 h = v Z

v 2-3 k

v = 7.5

clouds make obs doubtful within small range.

Fog

12.3 No Aurora

6733 R Scuti B m

12.3 g 8-9 v 12.5

v 6 k 10.5

h 1 v 11. 10.8

v = 7.

h K 4 v 14.0 Tele —

12.4 v 2 k 15.0 14.5 1.

v = 7.3 m

6834 V Aquilae

α 5 v m

12.5 v 7 β

v = 7.5

Tuesday July 24 1894

6903 T Sagittarii
12.8
l 3 m
m 4 n
l 2 v
v 1 m
v = 8. Mn

12.9 6905 R Sagittarii
d 6 v
v = e
v 4 f
v = 7.8

6921 S Sagittarii
v = β
13.0 v = 11.

on account of M vary. seen only by glimpses obs. approximate.

6923 Z Sagittarii
13.1 v Invisible < 9.5 Mn

7468 T Aquarii
13.2
o d 1 v
v 3 ~~γ~~ β
v = 9.5

13.3 7733 γ Capricorni
Invisible < 9.5 Mn

β Lyrae Mn

13.5 6849 A Aquilae
γ 1 β
13.6 k 2 v
v 5-6 l
v = 6. Mn

Tuesday July 24 1894

√ η Aquilae m

13.7

β = 1 η

η 4 ε

6943 √ T Sagittae

14.0

h 3 k'

k 5 α

α 3 k

h 2 v

v 2 k'

v = 8.

14.1 7242 √ S Aquilae m

v ≠ 2 γ

v = 9.5

7257 √ R Sagittae

14.2

$\underline{k}$ 3 v

v = l

v = 9.5

7261 √ R Delphini m

α 2 v

v 6 γ

v = 7.5

14.3

atmosphere hazy.

8290 √ R Pegasi m

15.1

δ 5 v

v 4 α

v = 7.5

15.1

No Aurora

Smith 15 Camera

Tuesday July 24 1894

15,2 1855 √ R Aurigae
f 1-2 v
v 6 g
v = 8.

15,3 814 √ S Persei
d' = v
v 2 d
v = 8

Wednesday ~~Aug~~ July 25 1894

no Aurora

6733 R Scuti M

11.8 h 5 v 15. Tele

v 1 k 16. 15.5

v = 7.

6044

φ 4 v S Herculis

v 4 0

v = 9.

5950 W Herculis

12.2 <10. invisible β visible

clouds.

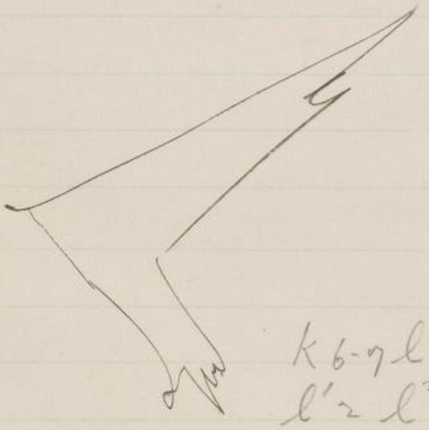
13.7 no aurora.

clouds

6005 S Draconis

14.4 m 3 l M

l 1 n



h 1 v

v 3 m

14.5 v = 9.

k 6-7 l'

l' 2 l²

l² 4-5 h hazy.

7351 RW Cygni

15.2

v 2 h

v = K hazy M

clouds.

Organ Tutoring in Sac. & Art.

Thursday ~~Aug.~~ July 26 1894

3825 √ R Ursae Majoris

9.7

e 2 v
v 3 f
v = 7.5

15.2
14.5
~~9.7~~

14.8
5.90
7.28

clouds

12.3 107 √ T Cassiop

g 1 v
v 4 h
v = 8.

12.6 432 √ S Cassiop

v ≠ 0
v = 10.5

hazy

clouds

13.4 7439 √ X Cygni

m 3 v
v 2 m

√ 7456 RR Cygni

m 5 v

13.5

v 1 n
v = 8.

13.7 7795 √ RV Cygni

k 6 v
v 1 l
v 6 m
v = 7.

Thursday July 26 1894

243 V Cassiop.

13.9 π 6 v M

v = α

v 6 ψ

v = 7.8

6798 ✓ U Persei

q 3 h M

14.2 h 4 k

h 1 v

v 3 k

v = 9.5

906 ✓ R Trianguli

14.3 Invisible M

✓ 1279 Camelop.

c 6-7 v

14.6 v 2 d

v 6 e

v = 6.5

1981 ✓ S Camelop.

v 2 α M

14.7 v = 9.5

Saturday July 28 1894

Aurora

9:25 bright band of Aurora in N.
alt of lower edge at north = 20°
band 8° wide.

11.0 no Aurora

6739 R Scuti
h 5 v
11.9 v 2 k
v = 7.8

5770 R Herculis
Invisible < 11
12.0 β visible.

12.0 no Aurora
5889 U Herculis
n 1-2 v
12.1 v 3 0
v = 8.

7431 S Delphini
m 6 n
n 3 0
12.2 o 4/2.
o 2-3 v
v 2 q
v = 10.5

12.4 T Delphini
7444
m 2 v
v 2 n
v = 8.5

Saturday July 28 1894

13.2 782 ✓R Arietis

v 2 ξ

v = 11.5,

13.3 976 ✓T Arietis

m = v

v 5 m

v = 9.,

13.7 432 ✓S Cassiop

o' 2 v

v 2-30

v = 10.

Monday July 30 1894

3825 ✓ R Ursae Maj

9.8
e 2 v
v 3 f
v = 7.

15.2
14.5
14.8
5.90
7.38

No Aurora

4511 ✓ T Ursae Maj.

10.0
b 3 v
v 1 c
v 5 d
v = 7.5

10.0 4557 ✓ S Ursae Maj
d 9 v
v 1-2 e
v = 7.7

13.8
11.4
12.6
676
8.02

5157 ✓ S Bootis

10.4
h k 4 v
v = k
v = 10

n seems > K
South of these stars.

10.5 5190 ✓ R Camelop
e 5 v
v = f
v 5 g
v = 9.

10.6 5955 ✓ R Draconis
n 6 v
v = 0
v = 10.

Monday July 30 1894

10.8 7609 √ T Cephei

d' 1 v

v 3 d — Opera

d 4 v !

v 4 d ? — Tele

109 7779 √ S Cephei

d 6 v

v 1 e

v = 8.

√ No Aurora

8600 R √ Cassiop

11.1 v = 6. — Opera

e' = v

v 4-5 e

11.2 √ R Cygni

ζ 2 v

d 1 = v

K = v

11.2 √ β Cygni

ξ 1 v

v 2 0

11.6 6636 √ U Sagittarii

v 2 g

v = 7

11.8 √ V Sagittarii

α 4 v

v = β

v = 8.

Monday July 30 1894

11.9 6834 V Aquilae

α 6 v

v 2 ξ

v = 7.

6905 R Sagittarii

e 3 v

12.1 v = f

v 3 g

v = 8.5

6921 S Sagittarii

12.2 α 5 ~~β~~ v

v = β

v = 11.

7909 U Aquarii

12.3 e = v

v 5 b

v = 10.5

12:16 No Aurora

R Aquarii

8512 b' 3 v

12.4 v 2 b

v = 6.8

8597 V Ceti

12.5 ~~d 4 v~~ f 4 v

~~v 1 f~~ v 1 ε

v = 9.

MP4411 ~~H~~1279 — Camelop

12.7 d 2 v

v 2 e v = 7.8

~~ξ~~ ξ too bright to compare with v perhaps ξ 8 v

Monday July 30 1894

1623 ✓ T Camelop

11.8 There is a cluster of 12m stars
around var. so that I can not
identi. v. with the chart now at hand.

v < 10.5

107 ✓ T Cassiop

g 5 v
v 1 h
v = 8.5

432 ✓ S Cassiop

13.4 o' 3 v
v = 0
v = 10.5

No Aurora

13h.25

432 S Cassiop

R seen steadily = 11.5

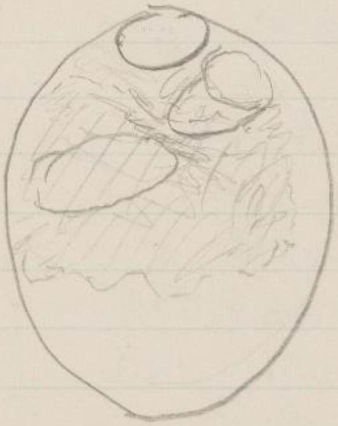
22 ☞ S.T. 22^h 30^m S/ with difficulty = 11.7

814 ✓ S Persei

13.9 v = 8.
d' 2 v
v = d

S.T. 22^h 45^m R seen w. diffi. = 11.6
O " by glimpses = 12.0

☞



Wednesday Aug. 1 1894

9:30 No Aurora

5156 X Bootis

Z

h 3 v

10.0 v 6 k

v = 9.

clouds + haze make obs. not precise

5237 R Bootis

Same conditions as 5156

g ~~4~~ 5 v

10.1 v 2 h

v = 7.8

10.3 6733 R Scuti

h 6 v

v = k

v 3 l

v = 7.5

10.4 432 S Cassiop

o 1-2 v

v 2 0

Reduced
Aug. 6 1894
W.M.R.

Sunday Aug. 6^5 1894

8:48 No Aurora.

√ 5494 S Librae

9.0 K 5 v

v = l

v 6 m

v = 9.5

√ 5430 T Librae

9.1 g = V (circum)

v = 10.5

Meteor

w slow white 7.5

Compar 9.^{m} mag. distant from meteor 5′

9:46 S.J. 1852 h a ~~ta~~ 3^h 15^m w α 15^h 30^m δ −21°

5583 √ X Librae

Invisible < 12

q visible

5617 √ U Librae

K 5 l

l 3 m

v 1 k

9.8 v = 8.5

5795 √ W Scorpii

v = n

10.1 v = 10.5

5830 √ R Scorpii

r 5 v

v = 10.5

5831 S Scorpii √ Invisible < 11. q visible

10.3 5836 T Scorpii Invisible

Sunday Aug. 5 1894.

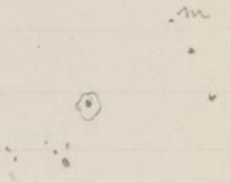
11.0 Gegenschein

Eq See tracing for position It appears ~~ea~~ round the center being about $\frac{1}{4}$ from θ Capricorni to 18 Aquarii.

The Scale Aquila – Aries band was seen ~~at le~~ as far as Aquarius The small branch which starts at Aquarius and runs SW toward but not into Capricorni was also seen. The Eastern end of Capricorni was dark as hitherto ~~seen~~. observed. In fact I noticed no band or patch of light (except the Gegenschein) in the area bounded on the N by the Aquila band the W by the Milky Way and the E by Capricornus. But I had not time to study this region as it should be studied

The brightness of the Gegenschein was equivalent to that of the Milky Way 7/10 ~~/10~~ from $\overset{\theta}{\zeta}$ Aquilae to λ η Aquilae.

√ R Lyrae



11.5 k 3 v
ζ 3 v
δ 1 v
v 2 m

√ β Lyrae

11.5 √ ζ 2 v
v 1 o

√ δ Cephei
ζ 6 v
11.7 v 3 ε

Sunday Aug. 5 1894

11.8 √ η Aquilae

β = v

v 4 ε

√ μ Cephei

γ 3 v

δ

ε 7 v

11.9 v = a

v 4 b θ

See Klein for a + b.

a = ε Draconis.

12.2 √ R Scuti

k 2 v

v 2-3 l

v = 7.

432 √ S Cassiop

12.3 m 1-2 v

v = o'

v 4 o

v = 9.

5190 √ R Camelop

13.0 e 5 v

v = f

v = 8.5

13.1 S.T. 22 10 l diff 11.6

m " 11.7

n invisible

Sunday Aug. 5 1894

5955 √ R Draconis
m 3 v
v 1 n
14.6 v = 10.

S.T. 23h 45m √ p seen steadily = 11.5
q " by glimpses = 12.

7220 √ S Cygni
v invisible
S.T. 23h 55m o seen steadily 11.5
p " by glimpses 12.0

15.0 7609 √ T Cephei — Tele
v 5 d
v = 6.

S.T. 24h 6m √ T seen steadily = 11.5

7779 √ S Cephei
e 7 v
v 2 d
v = 7.8

S.T. 24h 20m √ p seen w. diff. = 11.7
q " by glimpses 12.

1855 √ R Aurigae
15.3 g 1 v
v 2 h
v = 8.5

15.4 . 2478 √ R Lyncis
e 3 v
v 3 f
v = 7.7

Sunday Aug. ~~6~~5 1894

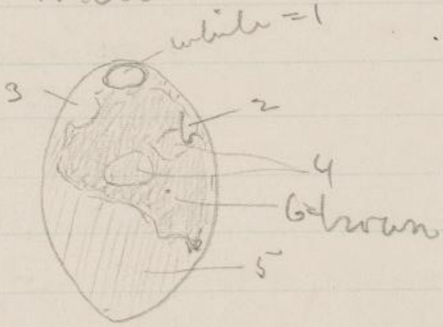
8600 √R Cassiop

15.5 e' 5 v opera
v = e
v = 6.5

7609 √T Cephei
v 6 d opera Dawn
v 2 d' ---- obj. uncertain within
obs diff∴ dawn in small range.
v = 6.5

Mars.

15:15



no Aurora at 12^h 13^h 14^h 15^h

Monday Aug. 6 1894

10:30 No Aurora.

10.8 3825 √ R Ursae Maj

v 2-3 g

v = 7.5

11.0 4511 √ T Ursae Maj

a 5 v

v = b

v 2-3 e

v = 7.

No, No Aurora

4557 √ S Ursae Maj

d 3 v

11.1 v 3 e

v = 7.5.

5157 √ S Bootis

k 6-7 v

v = l

11.3 v 6 m

v = 10.

11:30 Gegenschein

Position on tracing, brightness = 8/10 from θ Aquilae to η Aquilae.

Monday Aug. 6 1894

Sequence at Pole.

(Pole star) α 3.5 β Ursae Min   Eye
β 2 γ Draconis
γ 5.5 δ Cassiop
δ 3 β Draconis
β 2 γ Ursae Min.
γ 2 ξ Draconis
ξ 3 χ Draconis
χ 5 ε Draconis
~~ε 3 a~~
Draconis ε 4 ε Ursae Minoris
Ursae Min ε 1 δ " "   Eye
δ 5 a   opera
a 2 b   "
b 4 c
c 3 d
d 4 e
e 5 f
f 3 g
g 2 h   opera

h is close to Polaris, 20' south, & therefore a bad star for a standard of magn. h is as faint as I care to obs. w. opera glass.

14.1 R Lyrae
ξ 3 v
δ 1 v
v 2 k
v 3 m

14.1 β Lyrae
γ 3 v
γ 3 ξ

Monday Aug. 6 1894

14.2 √ μ Cephei
γ 2 v
v = a
14.2 √ δ Cephei
γ 3-2 v
v 6 ξ
14.6 107 √ T Cassiop
h 1 v
v 4 k
v = 8.8
14.8 432 √ S Cassiop
l 5 v
v = o'
v 4 o
v = 10.
14.9 814 √ S Persei
d' = v
v 2 d
v = 7.8
15.0 1855 √ R Aurigae
g = v
e 12 h
v = 8.
15.1 2478 √ R Lyncis
e 4-5 v
v = f
v 5 g
v = 8.5

Monday Aug. 6 1894

15.2 2478 R Cygnis

0

S.T. ~~24~~ 20

O seen steadily = 11.4
p " w. diff. = 11.7
q " by glimpses = 12.

J M.P. 441 1279 Camelop

15.4 } > V perhaps 7 grades.
d 3 V
v 3 e
v = 7.5

Thursday Aug. 9 1894

15.0 See tracing of faint band
B. between Taurus & Aries
brightness = 6/10 from α Aurigae to Pleiades.
I suspect that the ~~S~~.Zodiacal Light may
influence this band. although I do not see the
Z.L. on account of the Milky Way.

~~R Lync~~

1855. √R Aurigae

15.1 g6v
v=h
v=10.

15.3 2478 √R Lyncis
f6v
v2g
v=8.5

Friday Aug. 10 1894

10.8 5237 ✓ X Boötis M

l2v

v5m

v=8.

10.9 5889 ✓ V Herculis

o~~4~~2v

v4h

v=8.5

11.1 6044 ✓ S Herculis

k1v

v4μ

v=8.7

11.2 6849 ✓ R Aquilae

l4v

v3m

v=7.

11.7 6943 ✓ T Sagittae M

g4v

v=h

v2-3k'

v=8.

11.8 7242 ✓ S Aquilae M

d1v

v=11.

11.8 7257 ✓ R Sagittae

k5v

v=l

v=9.5

Friday Aug. 10 1894

11.9 ✓ 7261 R Delphini

γ 1 v
v 2 δ
v = 8.

✓ 7431 ✓ S Delphini

μ 2 v
v = 9
12.1 v = 11.5

μ 4 q
q = 11.7 seen w. diff.

~~7431~~ 7446 ✓ U ~~S~~ Delphini

12.2 ~~ξ 1 v~~
~~v 2 η~~
~~v = 6.~~

ξ 4 v
v = η
v = 6

12.5 ✓ 7444 T Delphini

v 2 l
l 3 m
v = 8.7

✓ 8290 R Pegasi

K 3 v
v 3 l
12.9 v = 8.7

✓ 782 R Arietis

13.0 α 2 v
v 1 β
v = 10.

Friday Aug. 10 1894

13-13.6 Sagittarium
see tracing for position apparent position
of center was 4/10 from 18 Aquarius to 46 Capricorni.

976 ✓ T Arietis
m 1 v
13.7 v 4 n
v = 9.

13.9 1574 ✓ W Tauri
v 3-4 μ
v = 10.5

14.0 1577, 1582 ✓ R + S Tauri
invisible

1717 ✓ V Tauri
d ≤ 4 v
f 1 = v
v 3 d
v = 10.2

Meteor

14:22 motion W 15° N Mag = 8. swift. white
S.T. XL 23 48 ha $5^h 5^m$ E | α = $5^h 54^m$ δ = +8

1761 ✓ R Orionis
14.4 h 3 v
v 3 k
v = 9.5

1855 ✓ R ~~Cygnis~~ Aurigae
14.6 g 3-4 v
h 1 v
v 2 k
v = 10.

Friday Aug. 10 1894

5190 ✓ R Camelop.

14.7 d 2 v
v ~~x~~2 e
v = 8.5

✓ R Lyrae

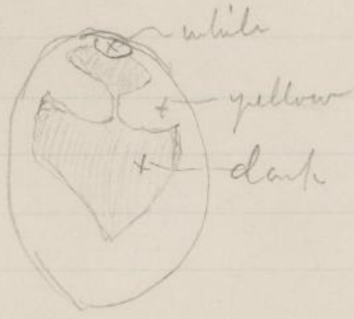
14.7 x 5 v
v 2 l

Meteor

15.1 9^m white w motion short tail (15′)
S.T. 12 28 $\alpha = 1^h 12^m$ $\delta = +70°$ h a 45^m w

1 432 ✓ S Cassiop.

15.2 Clouds interfered with obs. var hastily observed as follows: O′ = a v
v 2 O
v = ~~9.5~~ 10.



Sent to Camb.

Saturday Aug. 11 1894

10.0 no ✓ Aurora

3825 R Ursae Maj — M
e 4 v
v 2 f
v 4 g
v = 7.5

~~R Ursae Maj~~

10.3 4511 ✓ T Ursae Maj — M
a 6 v
v = 6
v 4 c
v = 7.5

10.4 4557 S Ursae Maj — M
d 6 v
v 2-3 e
v = 8.

10.5 5955 R Draconis — M
m 2 v
v 3 n
v = 9.8

Aw

Meteor

10.45 motion S 40° E S.T. 20h 18m white 6. mag. swift. trail=field
β $\alpha = 14^h\ 26^m$ $\delta = +40°$ h.a. $5^h\ 51^m$

10.8 5194 V Bootis — M
k 5 v
v 3 l
v = 8.5

10.9 5675 V Coronae — M
δ 2-3 v
v 3 l
v = 9.5

Friday Aug 17 1894

432 ✓ S Cassiop

12.0 m 5-4 v ~~[: v 4. m (see below)~~ Am

v = l

v = 9.

m seems > l by above amount.

no Aurora

Clds in Horizon

Saturday Aug. 18 1894

10.0 no Aurora

11.0 " "

11.5 6682 X Ophiuchi

q 4 p
R 6 v
v 2 q
v = 7.

7120 X Cygni

12.3 invisible

no Aurora

7259 R S. Cygni

R 6 v
13.0 p 1 v
v 4-5 0
v = 8.

13.0 no Aurora

6005 S Draconis
cloudy.

13.3 v 4 Am
l^2 5 ± v
v = 8.5

obs approximate.

Tuesday Aug. 21. 1894

10.0 No Aurora. M

.5190 √ R Camelop.

c 4 v

10.1 v 2-3 d M

v = 8.

5955 √ R Draconis

10.2 g 6 v M

v = h

v 5 k

v = 8.5

10.4 7609 √ T Ophi. M

b 1 = v

c 5 v

v = 5.5

Clouds

11.0 No Aurora

107 T Cassiop.

h 7 v M

v = k

11.0 * v 3 l

v = 9.

432 √ S Cassiop. M

11.1 m 2 v

v 1 l

v = 8.5

m 7 l

Tuesday Aug. 21 1894

7045 √R Cygni M
β 1 v,
11.4 ~~β~~ ψ ~~4~~ 6 v
v = 7.8

7085 √RT Cygni
11.6 ~~k~~ = v = 2 k M
v 3-4 m
v = 9.
clouds make obs. doubtful.

11.7 7192 √Z Cygni M
θ 2
v = 11.
a very scanty glimpse

7299 √U Cygni
11.7 b 2 v M
v = 9.

12.0 any Aurora

7351 √RW Cygni
12.0 l = v M
v 2 m
v = 8
v = 9 R.

Wednesday Aug. 22 1894

7220 √ S Cygni — M
11.8 l 5-6 v
v = m
v = 10.5

12.0 No Aurora — M

7437 √ X Cygni
m
l 2 v
12.3 v 3 m — M
v = 7.0

7456 √ RR Cygni
m 4 v
12.4 v 1 n — M
v = 8.5

7783 √ RU Cygni — M
c 2 v
12.5 v 1 k
v 5 d
v = 7.5

7795 √ RV Cygni
l 2 v — M
12.8 v 6 m
v = 7.8
v = 10R

8068 √ S Lacertae
g 2 v — M
13.4 v 2 b
v = 8

Wednesday Aug. 22 1894

13.6 8116 √ W Cephei M

l1ev

v2m

v=7.5

13.6 8157 √ R Scutum M

α4v

v2β

v=8.

432 √ R Aurigae M

l5v

v1m

v=10.5

15.1 bright M + haze makes obs. diff. + of doubtful precision

Mr Cummer M

243 √ U Cassiop M

15.2 v=ε

v3ζ

δ6-7v

v=10

bright Mn make obs diff.

Aug 31 Friday 1894.

1340 7779 S Cephei
c 6 v
v = e
v = 8-

very difficult
to obs. Cloudy

Thursday Sept. 6 1894

10.7 7729 √S Cephei

d=v

v 5 e

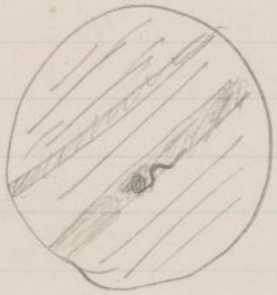
v=9.8

v=10. Redness

11.3 8600 √R Cassiop Tele

v 4 g

v= 7.



Tuesday Sept 11 1894

5190 √R Camelop.

12.0 v=b

v=8.

12.9 5955 √R Draconis

c 5=6v

v 2 d

v=7.5

7220 √S Cygni

f 2 v

13.2 v 2 g

v=9.

13.6 432 √S Cassiop

k 5 v

v 2 l

~~X m 2 v~~ v 2 m

13 v=8.5

seeing unsteady

m 2 l

1855 √R Aurigae

13.8 0 3 v

v=p

v=11.

13.9 2478 R Lyncis

k 2 v

v 5 m

v=10

Friday Oct. ~~6~~5 1894

13.7 7609 √ T Cephei
v 7 ± d

13.8 7779 √ S Cephei
e 2 v
v 2-3 f
v = 8.5

13.9 8levo √ R Cassiop
v = g
v 5 h
v = 7.8

14.0 10M √ T Cassiop
o = v
v = 10.

14.3 432 √ S Cassiop
k 5 v
v = l
v 2 m
v = 9.5

14.5 814 √ S Persei
d' 1 v
v 1 d

~~14.9~~ 1855 √ R Aurigae
14.9
p 4 v
v 1-2 q
v = 11.8

Saturday Oct. ~~7~~6 1894

11.8 7468 √ T Aquarii
h 5 v
v 1 k
v 4 l
v = 8.

11.9 7907 √ U Aquarii
c 3 v
v 4 b
v = 11.2

12.0 8512 √ R Aquarii
c 4 v
v 2 f
v = 7.8

12.2 8597 √ V Ceti
c = v
v 3 b
v = 10.5

12.4 8290 √ R Pegasi
χ 2 v
v = 10.5

12.6 1574 √ W Tauri
a 2 v
v 4 b
v = 8.5

12.7 1717 √ V Tauri
Invisible < 11.5

1761 √ R Orionis
l 2 v
v 4 m
v = 9.

k 4 l
l 5 m

Saturday Oct 5–~~7~~6 1894

14.5 7795 √ R V Cygni

l 4 v

v 2 m

v = 8.

14.7 8068 √ S Lacertae

$\beta = v$

v 2 g v = 7.4.

some doubt about identification of β, clouds now present verifying above statement.

Sunday Oct. ~~8~~7 1894

8.1 √ β Lyrae
γ 6 v
v 2 ~~ε~~ }
ʒ

8.2 √ R Lyrae
o 3 v
v 1 ξ
v 2-3 δ

8.2 √ δ Cephei
ε 7 v
v = 1 ζ

8.3 4557 √ S Ursae Maj
h 4 v
v 2 k
v = 9.5

8.5 4511 √ T Ursae Maj
Invisible

5190 √ R Camelop.
8.6 b = v
v 6-7 e
v = 7.

5955 √ R Draconis
8.7 d 2-3 v
v 3 e
v = 7.5.

5950 √ W Herculis
8.8 b 2 v
v 4 c
v = 8.

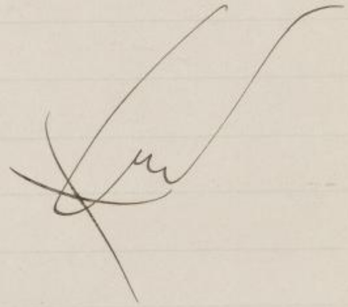
Sunday Oct. ~~8~~ 7 1894

8.9 6005 S Draconis
l^2 3 v
v 3 h
v = 8.

9.3 7045 R Cygni
α 2 v
v 4 β
v 2 χ ξ
v = 9.5

9.4 7085 RT Cygni
π 5 v
v 5 φ
v = 11.5

7192 Z Cygni



9.6 θ 6 μ
μ 2-3 v
v = 11.8

9.8 7299 U Cygni
μ 5 v
v 6 θ
v = 10.

10.0 7351 RW Cygni
g 5 v
v 1-2 h
v = 8.5

7437 X Cygni
l 1 v

10.1 v 6-7 m
v = 6.5

Sunday Oct. ~~8~~7 1894

7456 √ R R Cygni

10.2

m 6-7 v

v = m

v = 8.8

7783 √ RU Cygni

d 6-7 v

10.3

v = e

v = 7.0

906 √ R Trianguli

Invisible < 11.5

10.8

If properly identified

+ verify position on small chart

clouds.

1279 √ M.P. 441

v = d

12.0

Wednesday
~~Tuesday~~ Oct. ~~9~~ 10 1894

5190 √ R Camelop — m

8.7 b 3 v
v 6 e
v = 7.5

8600 √ R Cassiopeiae

8.9 g 1-2 v
v 4 h
v = 7.3

9.0 432 √ S Cassiop.

g 5-6 h'
h' 6 k

h' 5 v — m
v 1-2 k
v 4-5 l
v = 9.0

√ β Lyrae

9.1 γ 1 = v

√ R Lyrae

9.2 γ 4 v
v = 0
v 3 δ

√ δ Cephei

9.3 ε 1 v
v 5 ζ

243 √ V Cassiop — m

9.5 ζ 3 v
v = 10.5

~~Tuesday~~ Wednesday Oct ~~9~~ 10. 1894

678 U Persei

Mn

9.7 α 3 v
v = 10.

1279 Camelop 4111
c ~~5~~ 3 v
9.9 v 5 d
v 2 x
v = 7.

1623 ~~R~~ T Camelop
g 3 v
10.3 v = h
v = 8.5

d 4 f
f = e
e 5 e'
e' x 5 m.
m 6 g
g 5 h
h 6-7 e^2
e^2 3 x o
o 5 β

1981 S Camelop
11.3 v 2 ~~x~~ q
v = 9.0

k 5 l
q is ½ between o and Var. l 4 m
m 5 n
q Same as α n 3 o
o 4 p $11^{h}.7$ p 2 v
p 3 q v 1 q

Wednesday Oct 10

~~Tuesday Oct. 9~~ 1894

782 ✓ R Arietis

12.0 d 2 v M

v 1 e

v = 8.

13.8 1923 ✓ S Aurigae

Invisible < 11.5

2013 ✓ V Aurigae

14.0 Invisible < 11.5

14.2 513 ✓ R Piscium

Invisible < 11.5

✓ g visible

1113 ✓ V Arietis

14.5 v = d

v 3 e

v = 7.2

d 3 e

e 4 f

2100 ✓ U Orionis

14.6 φ 1 v

v 4 φ

v = 10.6

14.7 2362 ✓ R Monocerotis

Invisible < 11.5

2539 ✓ R Canis Min.

d 4 v

15.0 v = β

v = 11.8

Wednesday Oct 10
~~Tuesday Oct. 9~~ 1894

15.1 2684 ✓ S Canis Min.
l 5 v
v 1-2 m
v = 10.2

15.3 2735 ✓ U Canis Min.
α 3 v
v 3 β
v = 10.

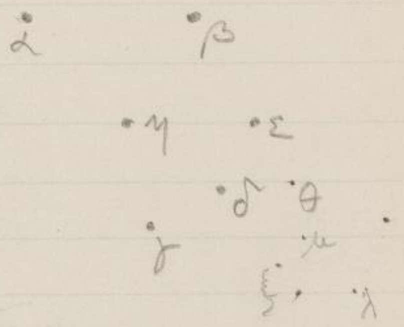
obs. not precise. (clouds.)

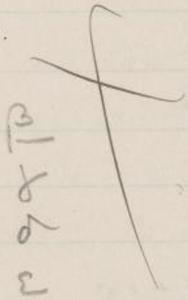
✓ 2780 T Geminorum
m 2 v
15.7 v 1 n
v = 10.

2742 S Geminorum
k 4 d
15.8 ✓ k 3 v
v 1 = l
v = 9.

Thursday ~~Wednesday~~ Oct. 11 ~~10~~ 1894

Pole Stars.





α	3	β
β	4	γ
γ	3	δ
δ	6	ε
ε	4	η
η	2	θ
θ	6	λ
λ	5	μ
μ	3	ξ
ξ	6	α

Sunday Oct 14 1894

5190 √ R Camelop.

7.9 v 1 b M

v = 7.5

5955 √ R Draconis

8.2 d 3 v

v 5 e

v = 7.5

432 √ S Cassiop.

8.5 g' 3 v

v 1 = h'

v = 9.

814 √ S Persei

d' 1 v

8.7 v = d

v = 8.

M makes obs. diff.

6512 √ T Herculis

too bright Moon-light to observe T Her. Perhaps ~~quite~~ just visible.

7259 √ R S Cygni

R = v

9.1 v 3 p

v = 7

9.5 6682 √ X ophiuchi

q' = v

v 1 p

v = 7.

Sunday Oct. 14 1894

9.6 6726 √ T Aquilae **Mu**

k 5 v
v 1 l
v = 9.5

9.8 √ MP 441 **Mu**

t v 1-2 e
v = 7.

10.3 6943 √ T Sagittae

k 3 v
v 4 l
v = 9.5

724~~8~~2 √ S Aquilae

β 4-5 v
10.5 v 1 χ
v = 10.

obs. diff :: 1 m.

7257 R Sagittae

10.7 ~~[illegible]~~ l 6 m
m 6 m

m 6 v
v = m
v = 10.

7446 √ U Delphini

η 4 v
10.8 v 1 θ
v = 7.5

Sunday Oct. 14 1894

11.0 1623 √ T Camelop Am

v = g
v 3 h
v = 8.

7779 √ S Cephei

12.2 Am

d 2 v
v 4 e
v = 8.

Sent to Camb.

Monday, Oct. 15 1894

7.9 5190 √R Camelop. M

v=6

v=7.5

second look

v1=6

8.2

5955 √R Draconis

d2v

v4e

v=7.5

7220 √S Cygni

8.3 p2v M C

v=10.

8.9 7779 √S Cephei

v=d

v5e

v=8

9.2 8400 √R Cassiop.

h2-3v

v3k

v=7.5

T Cassiop.

9.3

v=m

v=10.

9.9 but identification of n is ? :. of M.

√432 S Cassiop.

g′2v,

v1h′

v=9.5

Monday Oct. 15 1894

9.9 814 √ S Persei m

c 7 v

v 1 d'

√ = 7.8

clouds

11 4' √ S Ceti

10.2 Invisible < 10

bright moon light

Tuesday Oct. 16 1894

Aurora M

13:35 faint arch in North
alt of lower edge 7°
band 7° wide.

MP 441 M

13.9 v 2-3 c
v = 7.

14.0 3825 R Ursae Maj. M
v 2 m
v = 9.

7783 RU Cygni
c 1 v
14.4 44 v 6 d
v = 7.

14.7 8068 S Sagittae
b 6 v
v 1-2 b M C
v = 8.

clouds probably affected this obs.

clouds

g ζ Geminorum M
15.8 δ 2 v
v 1 c

Wednesday Oct 17 1894

8.0 ✓ δ Cephei M
ε 2 v
v 2 ζ

8.1 ✓ β Lyrae
γ = v̲

8.2 ✓ R Lyrae
θ 2 v
v 1 ι
v 3 δ

8.3 R ✓ Scuti
v = 6.5
v = h̲

8.4 ✓ η Aquilae
δ 2 v
v 2-3 β

8.5 ✓ S Sagittae
b 2 v
v 1 g
v = 7.

8.7 6943 ✓ T Sagittae
k 6 v̲
v = l̲
v = 8.8

Wednesday Oct. 17 1894

7242 S Aquilae
9.3 γ = v m
v 2 β
v = 9.

9.5 7257 R Sagittae
vari not certainly seen
perhaps ~~var~~ = m.
v = 11.5

7261 R Delphini
9.7 n 3-4 v m
v = 10.5
6005 S Draconis
l² 5 v
10.0 v 2 h
v = 8.5

K 6 l'
l' 3 l²
l² 7 h
h 3 m
m 3 n

m 2-3 l
l 3 m
7045 R Cygni
10.3 ξ 2 v
v = γ
v = 10.1

Wednesday Oct 17 1894

M

✓ RT Cygni

10.4 7085

$\pi = v$ (circum)
v = 11.5

var not certainly identified

11.2 7351 ✓ RW Cygni
g 5 h'
h' 6 h
h 4 m

h = l
h = k

g 7 v
v = h'
v 6 h
11.2
v = 8.7

11.3 7437 ✓ X Cygni
l 1 v
v = 1 m
v = 6.7

11.4 7456 ✓ RR Cygni
m 5 v
v 1 = m
v = 8.7

7783 RU Cygni
m 5 o
o 3 p
p 5 c
c 6 d
d 7 β

Wednesday Oct 17 1894

7783 √ RU Cygni

β 3 ε
ε 2 a
a 5 η

M

c 5 k
k 5 d

c 1 v
v 3 k
v = 7.

M

12.5

k 2 d
α 2 d
α = 8.0

η 6 φ

η 6 ξ
ξ = φ
ξ = 9.2

β 2 δ
δ 1-2 ε
δ = 9.2

k 5 b
b 1 d
b 4 β
b = 8.

Wednesday Oct. 17 1894

14.4 ✓ +62.596 M.P. 441 M

v 1 γ
v 1 ξ
v = 6.8

14.6 243 ✓ U Cassiop M

ξ 3-4 v
v = 10.5

obs. difficult.

4
13.9 1981 ✓ S Camelop. M

μ 3 v
v 1-2 q
v = 10.

2509 ✓ S Geminorum

ι 2 v

15.0 v 2-3 m

Oct. 18 1894 Thursday

✓ R Scuti

7.5

g = v

v 3 h

v = 6.5

7.6 ✓ η Aquilae

β 2 η

η 2 ε

7.7 6636 ✓ U Sagittarii

~~g 2 v~~ v 2 g

v 5 h

v = 7.8

7.8 ✓ V Sagittarii

α ~~β~~ 4 V

V = ~~α~~ β ?

v = 8.5

6834 ✓ V Aquilae

8.0

α 3-4 V

v = γ

v = 7.8

6905 ✓ R Sagittarii M

8.5

v = R

v = 11.0

obs very diff. 6903 ✓ T Sagittarii

8.6

invisible < 11.

R visible

806. ✓ o Ceti M

8.8

α = v

v 6 β

v = 8.8

Oct 18 1894 Thursday

9.3 6849 √ R Aquilae
R 3 v
v 2 S
v = 11.
R 5 S
M

9.5 6624 √ T Serpentis
invisible < 10
M

9.6 6682 √ X Ophiuchi
p 1 v
v 2 δ
v = 7.6
M

9.7 6726 √ T Aquilae
l 2 v
v 3 m
v = 9.5
M

l 4 m
7106 √ S Vulpeculae
k 5 v
v 1 l
v = 8.9
9.9 M

10.0 √ β Lyrae
γ = 1 β
M

10.1 √ R Lyrae
v 1 ζ
v 3-4 δ
M

10.1 √ δ Cephei
γ 5 v
v 6 ζ

Thursday Oct 18 1894

10.2 √ μ Cephei M

a 1 v
v 4 e

10.4 434 √ S Piscium M

k 3 v
v 2 l
v = 10.

1113 √ U Arietis

10.7 c 2 v M
v 3 d
v = 6.0

Notify observatory of this brightness!
Catalogue gives Max. brightness as 7.8 min < 11.

1367 √ X Tauri

10.9 m = 1 v M
v 6 m
v = 7.9

√ MP 441 1279 — Camelop. M

11.2 c = v
v 2 f
v = 7.

11.3 5190 √ R Camelop

v 2-3 b
v = 7.8

11.5 5955 √ R Draconis

d 2 v
v 4 i
v = 7.5

Thursday Oct 18 1894

11.6 7220 ✓ S Cygni M
p = v
v = 10.5
obs very diff.

11.7 7779 ✓ S Cephei M.
α d = v
v 4 e
v = 8.

8600 ✓ R Cassiop. M
h 1 v
11.9 v 2 k
v = 7.

432 ✓ S. Cassiop
g 7 v
12.2 v = 1 h' M
v = 9.

~~Dinner~~

874 ✓ S Persei
13.8 d' 2 v M
v = d
v = 8.

13.9 1855 ✓ R Aurigae M
invisible

13.9 2478 ✓ R Lyncis M
invisible

3825 ✓ R Ursae Maj.
14.0 v 1 m
v 5 n
v = 9.

Thursday Oct 18 1894

1944 S Orionis M

14.3 v = w (circum)

v = 10.5

obs. very diff. + uncertain on account of M

2266 V Monocerotis

14.4 ~~a~~ α = v M

v = ~~9~~ 10.0

14.7 8153 R Lacertae M

Invisible

243 U Cassiop.

14.7 v 1 L M

v = 10.

1623 T Camelop

15.1 f 5 v M

v 1 g

v = 7.

3477 R Leonis Min

15.2 m 1 v

v 5 n

v = 9.

906 R Trianguli M

var seen by glimpses about

15.4 equal to α. But obs. uncertain

v = 10.5

2684 S Canis Min.

15.6 h 6 v M

v = k

v 2 l

v = 9.

Thursday Oct 18 1894

15.7 2735 ✓ U Canis Min M

α 3 v
v 3-4 β
v = 9.

15.8 2780 ✓ T Geminorum M

m 6 v
x m 1 v
v = 9.

15.9 2742 ✓ S Geminorum M

α 5 v
v = ~~10.5~~ = 11.
v scarcely glimpsed

16.0 2946 ✓ R Cancri M

g 4 v
v = h
v = 8.0

16.1 3060 ✓ U Cancri M

invisible

3109 ✓ S Cancri

16.2

d = v
c 7 v
v = 8.3 M

3170 ✓ S Hydrae M

16.3 invisible

16.4 3186 ✓ T Cancri

b 5 v
v 1 θ
v = ~~8.5~~ 8.4 M

16.4 3567 ✓ V Leonis M

invisible

Thursday Oct 18 1894

16.5 3712 ✓ U Scorpii M
Invisible

Friday Oct. 26 1894

√ δ Cephei

11.5 ε 2 v

v 2 γ

7259 √ RS Cygni

11.7 R 2 v

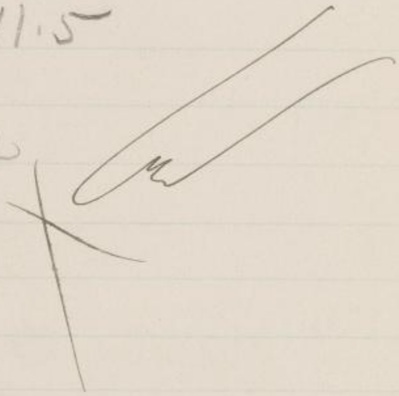
v 1 g

7428 √ V Cygni

11.9 Invisible < 11.5

8153 √ R Lacertae

12.0 ξ 7 ± θ



θ = v

v = 12

both θ + v seen by glimpses.

7351 √ RW Cygni

v 1 h'

12.2 v 4 h

v = 7.5

7437 √ χ Cygni

12.3 v 1 l

v 3 m

v = 6.5

7456 √ RR Cygni

m 4-5 v

12.3 v = m

v = 8.5

Friday Oct. 26 1894

7783 √ R U Cygni
12.4 c 2 v
v 2-3 k
v = 7.5

7795 √ R V Cygni
12.5 l 4 v
v 2 m
v = 7.8

8068 √ S Lacertae
12.9 a 3-4 v
v 3 c
v = 8.8

7609 √ T Cephei
13.0 v 5 d
v = 6.5

7779 √ S Cephei
d 1 v
13.2 v 4 e
v = 8.

8600 √ R Cassiop.
13.3 h 4 v
v 1 k
v = 7.4

15.0 432 √ S Cassiop.
g 4 v
v 3 h'
v = 8.5

814 √ S Persei
15.3 d' 3 v
d 1 v
v 4 e
v = 8.0

Friday Oct. 26 1894

15.5 1855 √ R Aurigae
Invisible
√ p visible = 11.7
5948 √ R Ursae Maj.
15.7 v=0
√ v4m
v=9.
4557 √ S Ursae Maj.
16.0 √ l4v
v1m
v=10.
5190 √ R Camelop
16.1 √ v=b
v=8.
√ MP 441
v2e
16.2 √ v4 χ
v=7.
√ S Geminorum
16.4 x2v
v2m

Saturday Oct. 27 1894

7468 T Aquarii
ϕ = 8.5 magn.
Is chart correct in giving it a magn of 6.0

7.3 7468 T Aquarii
~~Aa~~ n 5 a v
v 3 0
v = 9.

7.6 6834 V Aquila
γ 5 v
v 2 δ
v = 7.8

7.8 6905 R Sagittarii
q 7 R
R 3 v
v = 11.9

7.9 6921 S Sagittarii
Invisible < 11.5

6849 R Aquilae
8.4 s 3 t
t 5 u
u 5 w
w = 11.5

T 1 v
v 5 u
v = 10.3

Saturday Oct. 27/1894

6943 √ T Sagittae

8.7 K5V

l1V

V=9.

7242 √ S Aquilae

8.7 α7V

V1x

V3y

V=10.

7257 √ R Sagittae

8.8 l $\overset{2}{3}$V

V1m

V=9.

8.9 √7261 R Delphini

Invisible

7431 √ S Delphini

l4V

m1V

V3n

V=10.

~~7431 S Delphini~~

9.0 7446 √ U Delphini

θ5V

V=7.

11.1 7437 √ X Cygni

m1-2V

V1n

V=6.0

Saturday Oct. 27 1894

√T Cephei

11.3 d' = v B

v 3 d

v = 6.8

v 3 d Tele

S.T. ~~14~~ 2^{h}:0^{m} S seen easily = 11.4 Magn.

12.2 7779 √S Cephei

d = v

v 3 e

v = 7.8

S.T. ~~14~~ 2^{h}:45

p seen easily = 11.4

q " w. diff. = 11.8

432 √S Cassiop.

S.T. ~~15~~ 3^{h}:0

s seen easily = 11.6

t Invisible.

12.5

f 6 v

v 1 g

v 1 f'

√δ Cephei

14.5

L 2 v

v 3 γ

Saturday Oct. 27 1894

✓ S Persei

14.6 S.T. $5^h 20^m$

d' 2 v
v = d
v 4 e
v = 8.

n seen w. diff = 11.7
o " by glimpses = 12.0

15.0 5190 ✓ R Camelop
v = b
v = 7.5

✓ M.P. 441

15.2 v 2 c
v 4 x
v = 7.5

Aurora

12:30 a faint arch alt of lower edge 4°

14:30 Arch same as above.

15:10 Aurora Invisible

✓ S Geminorum

15.3 λ 4 v
v 1 n

Sunday Oct. 28 1894

10.0 √ δ Cephei
j 1 v

10.3 7437 √ X Cygni
l 4 v
v = m
v 3 m
v = 6.

7220 √ S Cygni
10.8 S.T. ~~0~~:30
1
p = seen with diff. = 11.7
q = " by glimpses = 12.0

o 2 v
v 1 p
v = 11.6

7609 √ T Cephei
1:34
S.T. 1~~b~~
S = seen easily = 11.5

10.9 v 3 d tele.

d' = v
11.0 v 3 d B.
v = 6.2

7779 √ S Cephei
11.2 d = v
v 3 e
v = 8.

S.T. 2:8
p = 11.4 easily.
q = 11.7 difficult.
r = 12.0 glimpses.

~~Saturday~~ Oct. ~~27~~ 28 1894
Sunday
Cloud

R Cassiop.

S.T. 2:25 u seen by glimpses = 11.8

But var was so close a star at 7.5 mag. that I do not consider this estimate reliable.

11.8

h 5 v
v = k
v = H 7.5

432 S Cassiop.

S.T. 3:10 t invisible
s = 11.9 seen by glimpses

f 5-6 v
v 1-2 g
v = 8.0

12.7

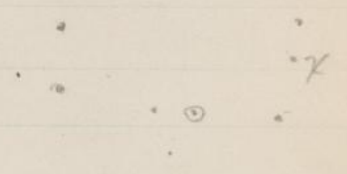
S Persei

o = 11.8 = seen with diff.
p = 12.0 = " by glimpses

14.7

S Geminorum

n 1 v
v 3 x



Monday Oct. 29 1894

Aurora

11:54 at the lower edge of very faint arch = 5°

11.9 δ Cephei

β 2 v

ξ [illegible]

11.9 m 1 = v

v 2 χ

7437 χ Cygni

12.0 m 2 v

v 3 0

v = 7.2

Meteor

and 3 obs since Sept. 15

Polar Sequence

ξ 5 π

π 5 ρ

13.9 ρ 3 φ

ρ = seen w. diff. = 11.7

φ = " by glimpses = 12.0

14. a' has been abandoned in sequence.

α 5 γ abandon β & δ

γ 4 ε

ε 2 η

η 3 θ

θ 6 λ

λ 3 μ

μ 2-3 ξ

ξ ξ

Monday Oct. 29 1894

2478 R Lyncis

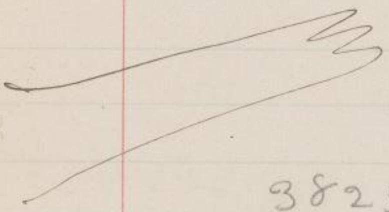
O4v
v2p
v=11.

16.0 S.T. 6:45

q = 11.5 Seen Easily
R = 12.0 " by glimpses

3825 √ R Ursae Maj

O2v
v3n



Meteor

6. magn white

3825 R Ursae Maj

t = seen w. diff. = 11.6
u = " by glimpses = 12.0

5190 √ R Camelop

b=v
v=7.5

16.4 S.T. 7:10

n = 11.7 Seen w. diff.
o = 12.0 Seen by glimpses

Wednesday / Oct. 31 1894

7437 X Cygni

12.3 m 3 v

v 2 0

v = 7.5

7220 S Cygni

12.5 o 4 v

v 2 p

v = 11.6

S.T. 3:20 p = 11.8 seen w. diff.

q invisible

T Cephei

S.T. 3:30 s seen w. diff. = 11.8

v 3 d Tele

v

12.7 v = d

d' 2 v B.

v = 6.8

1855 R ~~Camelop.~~ Aurigae

R = 12.0 glimpses

S.T. 16:0 q = 11.7 diff.

13.2 v = R

v = 12.0

243 U Cassiop.

l 1 v

13.3 v = 10.

Wednesday Oct. 31 1894

U Persei

α − v
v = 11.7

c 1 − 2 d
d 7 e
e 3 f
f 4 g
g 5 h
h 5 k
k 5 l
l 4 m
m 3 n
n 7 o
o = 11.5

h 2 y
y 2 k

z 1 h
z 6 k

3825 R Ursae Maj.

S.T. 6:15

t seen by glimpses = 11.9

o 1 v
v 2 n
v = 9.

15.5

5190 R Camelop

b = v
v = 8.

15.6

Wednesday Oct. 31 1894

√ M.P. 441

15.8 v 2 e

v 4 γ

v = 7.5

3477 √ R Leonis Minoris

16.0 n 5 v

v 1 o

v = 9.1

2 meteors seen to-night.

ζ Geminorum

16.1 λ 4-5 v

* v = n

v 2 γ

η Geminorum

μ 1 = v

16.2 v 3 δ

Thursday ~~Oc~~ Nov. 1 1894

1855 R Aurigae

14.0 $5^{h}0^{m}$ S.T.

q seen w. diff. = 11.7
r " by glimpses = 12.0

√ v invisible < 12.0 magn

3825 √ R Ursae Majoris

14.3 S.T. $5^{h}11^{m}.5$

t seen w. diff. = 11.8
u invisible
0 1 v
v 1 n
v = 9.

√ M.P. 441

15.

v 1 c
v 3 x
v = 7.5

1623 √ T Camelop

15.2

f 5 v
v 2 g
v = 8.5

Friday Nov. 2 1894

8.0 √ δ Cephei

ι 2 v

v 2 γ

8.3 7437 √ X Cygni

l 4 v

v = m

v 2 n

v = 7.5

8.5 1933 S Aurigae

v = q

v 3 R

v = 10.3

q 3 R

R 2 S

S 5 t

t = 11.9

Saturday Nov. 3 1894

5.8 6905 √ R Sagittarii m
invisible < 10.
Moon too bright –

5.9 6834 √ V Aquilae m
α 3 v
v = ζ
v 6 β
v = 7.5

6.0 7468 √ T Aquarii m
v = 8.8
v 2 0

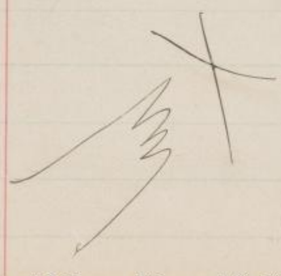
m 3 n
n 7-8 o

6.2 8512 √ R Aquarii m
h 2 v
v 2 k
v = 8.5

6.3 5889 √ U Herculis
invisible < 11.

6.4 6044 √ S Herculis m
g = v
v 1 h
v = 8.2

~~g~~ g 1 h
h 6 k
k = μ
k 2 γ
γ 2 φ
φ 5 O
O = 9.3 0.3/n



Saturday Nov. 3 1894

Slm χ

12^h 12^m $+1^\circ$

6.7 — m

α 6 v

v 6 β

v = 10.5

6849 R Aquilae — m

6.8

t = v

v 3 u

v = 10.6

p 6 q

q 4 R

R 7-8 ~~s~~ t

R too bright to compare w. ~~t~~ S

t 2 S

t 4 u

k 4 l

l 6-7 m

m = n

n 7 o

o 3 p

β Lyrae

7.2

σ 2 { 2 χ v

v 1 o

R Lyrae

ξ 1 v

v 1 δ

v 3 κ

η Aquilae

β 2 v

v 1 ε

Saturday Nov. 3 1894

7.3 √ R Scuti

d = v

v 2 f

v = 5.5

√ S Sagittae

b 1-2 v

v 3 g

7437 √ X Cygni

~~S.T.~~

10.9 ~~14.0~~

l = v

v 2 m

v = 7.0

Polar Sequence

X

ξ 3 ξ'

ξ' 2 π

π 2 π'

π' 4 ρ

ρ 3 ρ'

ρ' seen by glimpses = 12.

ρ " w. diff. = 11.8

~~S.T.~~

11.8 ~~14.9~~

√ δ Cephei

γ 1-2 v

v 4 ξ

1981 √ S Camelopardi

~~Sext.~~

12.0 ~~15.1~~

p 4 v

v = 12

v = 9.

Saturday Nov 3 1894

2013 U Aurigae
m6v
12.2 ~~S.T. 15.3~~ v=12.0
V seen by glimpses.
m6 m

13.0 434 S Piscium
l2v
v1m
v=10.

782 R Arietis
13.1 f4v
v1g
v=8.5

14.0 T Arietis
l2v
v1m
v=8.5

1113 U Arietis
14.1 c too bright for comparison
v3d
v=7.

14.2 1574 W Tauri
a5v
v=d
v=8.

1717 V Tauri
14.3 invisible <11.5

Saturday Nov. 3 1894

14.5 1761 √R Orionis
l4v
v2m
v=10.

14.6 2100 √U Orionis
φ3v
v3ψ
v=9.

14.7 2539 √R Canis Min.
β2v
v=11.6

14.8 2625 √V Geminorum
Invisible <11.5

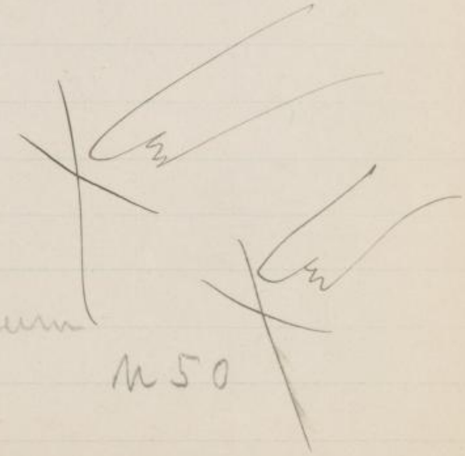
14.9 2684 √S Canis Min.
g1v
v4h
v=8.2

15.0 2735 √U Canis Min.
γ=v ~~α6~~
v6β

α5γ
γ6β

15.3 2780 √T Geminorum
m5v
v=0
v=9.5

n50



Saturday Nov. 3 1894

2742 S Geminorum
15.3 k 5 v
v = l
v = 8.8

2946 R Cancri
15.4 v 1 f
v = 7.

15.5 3060 U Cancri
v invisible <12.0

3170 S Hydrae
φ 1 v
15.6 v 2 φ
v = 10.

3186 T Cancri
θ 2 v
v 2 k
15.8 v = 8.

δ 3 ε
ε 2 ζ
ζ = η
ζ 5 θ
θ 3 k

16.0 3994 S Leonis
invisible

4300 X Virginis
16.1 h 3 v
v = k
v = 10.

Saturday Nov. 3 1894

16.2 5190 √ R Camelop

b = v

v = 7.8

16.3 5955 √ R Draconis

v 1 = e

v 6 f

v = 8.

16.4 5157 √ S Bootis

Invisible < 11.5

16.4 √ ζ Geminorum

δ 2 v

v = h

16.5 √ η Geminorum

v 2 μ

ζ 4 v

~~ζ is ζ Auri~~gae

ζ is ζ Tauri

16.5 8591 √ V Cassiae

h > 1 v

v 2 l

v = 7.

Tuesday Nov. 6 1894

11.9 ~~11.9~~ 806 ✓ O Ceti M

α 1-2 v
v 3 β
v = 8.8

12.0 ✓ α Cephei M

ζ 5 v
v 1 = v

12.1 7437 ✓ X Cygni M

v 5 m
v = 6.5

1944 ✓ S Orionis

12.6 ~~M~~

s 4 v
t 1 = v
v 6 w
v = 10.

Polar Sequence
9¾h

Saturday Nov 10 1894

11.3 7609 √ T Cephei
~~d 4 v~~ d 3-4 v
v 1 e
v = 7.5

11.5 7779 √ S Cephei
e 3 v
v = 9.

8600 √ R Cassiopeiae
11.8 h 6 v
v = k
v = 7.5

12.1 432 √ S Cassiop
v 1 e
v = 8.

12.6 814 √ S ~~Cassiop~~ Persei
d 2 v
v 1 e
v = 8.

13.9 5190 √ R Camelop.
b 1-2 v
v = 7.8

13.9 √ ζ Geminorum
ι 5 v
κ = v
v 2 χ

14.0 √ η Geminorum
v = μ

Monday Nov 12 1894

6.8 β Lyrae M

$\underline{\beta}$ 2 γ

6.8 η Aquilae M

$\underline{\epsilon}$ 2 η

7437 X Cygni M

11.4

l = v

$\underline{v}$ 2-3 m

v = 7.0

7456 RR Cygni

11.7 M

m 4 v

v = m

v = 8.5

11.7 δ Cephei M

$\underline{\epsilon}$ 6 v

$\underline{\zeta}$ 1-2 v

$\underline{v}$ 4 γ

Monday Nov. 20 1894

10.3 7609 √ T Cephei
d 5 v
v = e
v 6 f
v = 8.

Meteor
8. magn.

7779 √ S Cephei
10.4 f 2 v
v 4 h
v = 8.5

√ β Lyrae

7.0 β = γ made at R.R. Station.

8600 √ R Cassiop.
10.7 k 4 v
v 1 l
v = 8.

107 √ T Cassiop
Invisible < 11.

432 √ S Cassiop.
10.8 f 1 e
v 3 f
v = 8.0

Monday Nov. 20 1894

2478 R Lyncis
11.2 invisible < 11.

11.4 3825 R Ursae Majoris
v 2 β
v = 9.

11.6 806 o Ceti
α 4 v
v = β
v' = 9.0

11.8 1944 S Orionis
q 3 R
R 5 S

q 2 v
v 1 R
v 6 S
v = 9.

var. diff. to obs. on account of close companion: t.

2266 V Monocerotis
12.0 α 5 v
v 4 β
v = 8.

243 U Cassiop. m
13.5 I 2 v
v = 10.5

906 R Trianguli m
13.6 invisible < 11.

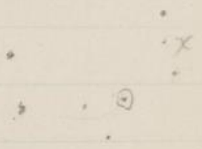
Monday Nov. 20 1894

√ M.P. 441 M
14.1 v 2 c
v 6 d

d 4 x
14.3 1623 √ T Camelop. M
f 2 v
v 4 g
v = 8.7
14.7 1113 √ U Arietis m
d 1 v
v 2 e
v = 7.8
1574 √ W Tauri M
a 5 v
v 3 b
14.8 v = 8.5

obs. diff.
√ 5190 R Camelop.
14.9 b 2 v M
v = 8.

√ ζ Geminorum



15.0 m 2 v
v 1 x

√ η Geminorum
15.0 ζ 2 v
v 1 = μ

Wednesday Nov. 21 1894

15.2 √ R ~~Cet~~ Camelop.

6 10

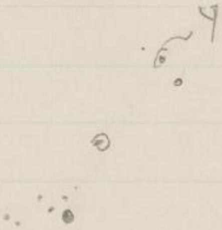
v = 8.

Seeing poor on account of haze.

Thursday Nov. 22 1894

7.8 √ β Lyrae
θ 3 v
R = v
v 2 ζ
v 3 δ

8.0 √ R Lyrae
v 1 χ
v 4 ζ
v = y



8 ~~7~~.3 7045 √ R Cygni
δ 3 v
v = 10.2

8.4 7085 √ RT Cygni
ε 3 v
v 2 a
v = 8.5

8.8 7120 √ χ Cygni
β 5 v
v 6 α
v = 8.

8.9 7259 √ RS Cygni
R 4 v
μ 1 v
v 3 θ
v = 8.1

Thursday Nov. 22 1894

7351 RW Cygni
9.1 h' = v
v 2-3 h
g 5-6 v
v = 8.8
9.2 7428 V Cygni
invisible < 11.
9.3 7437 χ Cygni
v 5 l v = 8.5 7.0
l 2 m
7456 RR Cygni
9.4 m 5 v
v = n
v = 9.
7783 RU Cygni
9.5 c 6 v
v = d
v 5 β
v = 8.7
7795 RV Cygni
10.0 m 2 v
v = 9.
8068 S Lacertae
f 2 v
v 5 h
10.2 v = 10.5
δ Cephei
10.3 ζ 3 v
v = ι
v 5 γ

Thursday Nov. 22 1894

8116 √ W Cephei
10.3 l 6 v
v = m
v = 8.5

8153 √ R Lacertae
10.5 Invisible < 11.

678 √ U Persei
11.0 v 1 = k
v = 9.5
obs diff, condi'i uncertain.

906 √ R Trianguli
11.2 invisible < 11.0

1981 √ S Camelop.
o 1 v
11.5 v 1 p
v = 9.
— hazy

Sunday Nov. 25 1894

11.0 δ Cephei
f 1 v
v 3 ξ

11.1 806 o Ceti
v = β
α 6 v
v = 9.

11.6 1944 S Orionis
g = v
v 5 R
v = 8.8

12.0 2857 U Puppis
Invisible < 12:0

13.6 2539 R Canis Minor
α 6 v
v = β
v = 11.6

13.7 2684 S Canis Min
f 1-2 v
v 2-3 g
v = 8.5

13.8 2735 U Canis Min
α 4 v,
v 1 β
v = 8.9

14.0 2780 T Gemin.
v = t about
v = 12.
var seen with diff. obs. doubtful.

Sunday Nov. 25 1894

2742 S.
~~2780~~ ~~T~~ Geminorum
14.2 m 3 v
v 2 m
v = 9.

l 6 m
m 5 m

2946 R Cancri
put in Comp. stars

3170 S Hydrae
14.4 m 4 v
v 3 β
v = 8.6

3186 T Cancri
14.~~4~~5 θ 2 v
v 2 k
v = 8.~~6~~3

4731 S Canum Venatici
14.6 m 2 v Lack of chart.
v = 0
v = 8.5

5955 R Draconis
14.9 h 2 v
v 1 = k
v = 8.6

15.0 814 S Persei
d 5 v
v = e
v 2-3 f
v = 8.7

Sunday Nov. 25 1894

15.1 ✓ ζ Geminorum

δ 2 v

v 1 m

15.2 ✓ η Geminorum

$\underline{v} = \mu$

Tuesday
~~Monday~~ Nov. 26 1894

6834 √ V Aquilae Twilight.
5.4 α 5-6 v
v = I
v = 8.
7468 √ T Aquarii
5.5 v = α approximately
v = 11.5
obs. diff & doubtful. twilight & haze
6943 √ T Sagittae
l 3 v
5.7 v = m
v = 10.
obs. diff. & doubtful.
7242 √ S Aquilae
5.9 v 2 γ
v = 10.
7254 √ R Sagittae
6.0 l 6 v
v 1 m
v = 10.5
7431 √ S Delphini
l ~~2~~ 4 v
6.1 v = m
v = 10.
6.2 √ β Lyrae
6.2 √ δ Cephei 2 v
γ 3 v
v 4 ε

Tuesday Nov 26 1894

7783 RU Cygni
8.5 d4v
v4 ~~α~~ β
v= 8.1
7437 X Cygni
8.7 v1l
v4-5m
v= ~~7.6~~ 6.8
8.8 7795 RV Cygni
v= m
v2-3m
v= 8-2
9.0 8068 S Sagittae
e3v
v1h
v= 10.8
9.4 8116 W Cephei c7-8 m
v1m
v= 7.9
243 U Cassiop.
9.5 v2 ζ
v= 10.
1574 W Tauri
d4v
9.8 v3c
v= 8.6
1761 R Orionis
m3v
10.0 v= n
v= 10.1

Tuesday Nov. 26 1894

21ua ✓ U Orionis Copied to here

φ 3 v

10.2 v 1 ψ

v = 10.2

Wednesday Nov. 27 1894

very cold + windy

8.4 7609 √ T Cephei

e 3 v
v 3 f
v = 8.

8.5 7779 √ S Cephei

ed 3 v
v = f
v 2 g
v = 9.

diff. to obs. ∵ of redness

8.6 7085 √ RT Cygni

d 6 v
v = f
v 2-3 d
v = 7.8

8.7 7120 √ χ Cygni

v 1 f
v = 6.5

8.8 7351 √ RW Cygni

h = v
v 4 h
v = 8.6

8.9 7437 √ X Cygni

v 1 l
v 6 m
v = ~~7.~~ 6.9

Wednesday Nov. 27 1894

9.9 8116 √ W Cephei
v 1 m
v = 7.8

√ δ Cephei
10.0 ξ 5 v
v = ε
v 5 ζ

1981 √ S Camelop.
10.2 m 3 v
v 2 n
v = 8.7

10.4 √ 2013 U Aurigae
invisible < 12.0
m invisible

806 √ o Ceti
10.6 v 5 β
v 1 α
v = 8.8

1944 √ S Orionis
10.7 k = v
v 3 q
v = 8.2

v 3 q
10.8 2266 √ V Monocerotis
α 2-3 v
v = 7.0

Wednesday Nov. 27 1894

2857 ✓ U Puppis
10.9 Invisible < 11.5
R invisible

11.2 8600 ✓ R Cassiop.
K 4 v
v 2 l
v = 7.9

432 ✓ S ~~T~~ Cassiop
13.5 c 7 v
v = d
v 4-5 e
v = 6.5

814 ✓ S Persei
13.7 d 4 v
v 2 e
v = 9.

13.6 1855 ✓ R Aurigae

Invisible < ~~11.2~~ 12.0
R Ursae Majoris
14.1 ~~10~~ 3825 ✓ p 5 v
v = 10.5

m 5 0
O 2 m
m 2-3 p'
p' 4-5 p

Wednesday Nov. 27 1894

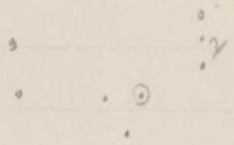
14.5 4557 √ S Ursae Maj.
~~An~~ m 6 v
v = 0
v = 11.89
var. rarely glimpsed.

14.9 5757 √ S Bootis
k = v
v 2 l
v = 11.3

15.0 5190 √ R Camelop.
b 6 v
v = e
v 6 d
v = 8.5

√ 1279 — Camelop.
15.2 v 3 e
v = 7.0

15.3 √ ζ Gemin.
m 1 v
v 1 χ



~~15.5~~ √ η Geminorum
15.3 ζ ~~Aur.~~ 4 v
v 2 μ

Thursday Nov. 29 1894

6.2 √ β Lyrae
ξ 3 v
v = 0

6.2 √ β Lyrae
κ 4 v
v = $\underline{1}$

6.2 √ η Aquilae
δ 4 v
v 2 β

Saturday Dec. 1 1894

6.7 ✓ β Lyrae

$\underline{\gamma}$ 1-2 β

✓ R Lyrae

v 3 ξ

v ~ χ

v ~ O

✓ η Aquilae

6.7 β 1 v

v 2 ε

8512 ✓ R Aquarii

8.6 K 4-5 v

v 1 l

v = 8.7

8.7 8597 ✓ V Ceti

Invisible

Sole ✓ O Ceti

8.8 α = v

v 6 β

v = 8.8

9.0 ✓ δ Cephei

γ 6 $\underline{v}$

v 2-3 ~~ε~~ $\underline{\xi}$

✓ 7085 RT Cygni

9.3 γ = v

v 3 δ

Saturday Dec. 1 1894

7259 R β Cygni

9.5 g 6 v

v = p

v = 8.2

9.7 7437 X Cygni

v = l

v 3 m

v = 6.9

9.7 7783 RU Cygni

d 2 v

v 3 p

v = 8.5

7795 RV Cygni

10.0 m 2-3 v

v 1 n

v = ~~9~~ 8.7

8068 S Sagittae

f 5 v

10.2 v = h

v = 11.6

8116 W Cephei

10.3 a m 1 = v

v = 8.

243 U Cassiop

I 1 v

10.4 v = 9.8

678 U Persei

10.7 g 1 v

v 7 h

v = 9.

Saturday Dec. 1 1894

#2

10.9 Invisible < 12

11.1 ζ Gemin.

~~12.1~~ δ 4 v

v 1 n

11.0 η Geminorum

~~12.3~~ δ v2 μ

ζ ~~aur~~ 3 v

976 T Arietis

11.6 l = v

v 6 m

v = 8.9

1113 U Arietis

11.8 l 4 v

v = f

v = 8.

1574 W Tauri

12.0 b 1 v

v 5 c

v = 9.

2684 S Canis Minoris

f 2 v

12.1 v 3 g

v = 8.5

Eob R Trianguli

13.6 invisible < 11.

Saturday Dec. 1 1894

13.7 1222 √ R Persei
Invisible

√ 1279 — Camelop.
13.8 v 2 e
v = 7.8

√ 1623 T Camelop.
14.0 e 1 v
v 1 f
v = 7.8

1981 √ S Camelopardalis
m 3 v
14.2 v 2 n
v = 8.

Clouds cover the sky & make obs a little uncertain.

Monday Dec. 3 1894

5.8 ✓ β Lyrae
j 1 v

✓ R Lyrae
v 1 i
v 3 d

5.8 ✓ η Aquilae
β 3 v
v = ε

9.8 ✓ δ Cephei
i 3-4 v
v 1 k

10
~~9.2~~ 7609 ✓ T Cephei
f 4 v
v 2 h
v = 8.

10
~~9.3~~ 7779 ✓ S Cephei
v = 8.9
f ~~2~~ 3 v
v 3 g

13.4 782 ✓ R Arietis
γ 1 3 v
v 3 d
v = 10.5

13.5 976 ✓ T Arietis
l 3 v
v 4 m
v = 8.5

Monday Dec. 3 1894

1113 U Arietis
13.7 f 1v
v 5 g
v = 8.

f 6 g
8600 R Cassiop.
13.8 K 5 v
v 1 l
v = 8.5

Pale

432 S Cassiop
13.9 v 5 e
v = 8.

14.0 814 S Persei
d 1-2 v
r 2 e
v = 8.9

1855 R Aurigae
14.1 Invisible ≤ 12.
R visible

14.2 3825 R Ursae Majoris
~~v = 6~~ v 6 R
v = 10.2

14.3 4557 S Ursae Majoris
v 6 0
v = 11.7

14.4 4511 T Ursae Majoris
Invisible

14.5 5157 S Boötis
K = v
v 5 l
v = 11.

Monday Dec. 3 1894

5190 √ R Camelop.

14.6 v = c

v = 8.5

1574 √ W Tauri

14.8 e 1 v

v 3 b

v = 8.8

a 6 d

d 4 e

e 6 b

b 5 c

1761 R √ Orionis

& m 2 v

15.1 v 1 m

v = 9.5

2100 √ U Orionis

φ 4 v

15.2 v 2 ψ

v = 10.3

√ ξ Gemin

δ 1 v

15.3 v 3 m

√ η Gemin

15.4 Aur. 5 v hazy

v 1-2 μ

Tuesday Dec. 4 1894

5.9 β Lyrae

γ 2 v

v 4 ζ

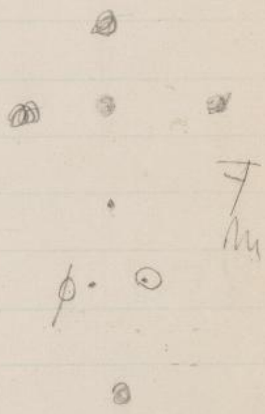
R Lyrae

ξ = v

v 2 δ

5.9 η Aquilae

ε 2 v



9.5 7120 χ Cygni

φ 2 v

v = 6.

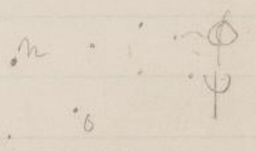
Polar Sequence

h′ 5 k

k 6 l

m 5 n

m 6 o



θ scanty glimpses = ~~12.0~~ Limit

ψ " w. diff. = ~~11.9~~ 3 above limit

14.8 2539 R Canis Min.

g 2 h

h 6 k

k 5 l

l 4 c

c 2 b

b 6 a

a 3 v

v = 8.9

Tuesday Dec. 4 1894

R Canis Minoris

α 6 γ

γ 6 α

α 2-3 β

2684 √ S Canis Min.

f 1-2 v

15.7 v 5 g

v = 8.

15.8 2735 √ U Canis Min.

δ 1 v

v = 8.8

16.0 2742 √ S Geminorum

invisible

but identification not certain

among faint stars.

√ ζ Geminorum

16.2 δ 1 v

v 1 λ

v 4 m

√ η Gemin

μ = η

16.3 ζ Aur. 4.v

Sent to Cambridge

Wednesday Dec. 5 1894

Polar Sequence

h' 6 k F.
k 2 l F
l 4 n F
n 5 o Tele.

6.5 β Lyrae
θ = v
v 3 ζ

6.5 R Lyrae
ζ = v
v 2 δ

~~η Aquilae~~

11.9 806 o Ceti M
α γ 1 v
v 2-3 α
v = 8.7

12.3 1944 S Orionis
v = α
v = 7.9

clouds

Thursday Dec. 6 1894

Aurora

9^h30 faint ~~band~~ arch alt of lower Edge of Apex = 6°
Thickness of band = 1°
At eastern end a spotty light was noticed to move Easterly.

Clouds

M.P. 441

14.3

v 3 e
v = 6.5

1623 T Camelop.

14.5

e 2 v
f 1 v
v = e'
v = 7.

Checked to here for:
Variables ✓
Comp. Stars ✗

2413
175

Wednesday Dec. 12 1894

5190 ↓ R Camelop. M

14.1 c 1 v
v 6 d
v = 8.

14.2 432 ↓ S Cassiop. M
c 6 v
v = 7.

14.3 814 ↓ S Persei M
d' 2 v
d 1 v
v 2 e
v = 7.5

14.4 4557 ↓ S Ursae Maj. M
Invisible

14.4 4511 ↓ T Ursae Maj. M
Invisible

14.5 5157 ↓ S Bootis M
h 3 v
v = 10.

obs. diff. on account of Moon

14.7 5955 ↓ R Draconis M
l 3 v
v = 10.

14.9 1944 ↓ S Orionis M
v 1-2 d
v = 7.5

Thursday Dec 12 1894

15.1 2266 ✓ V Monocerotis

v 1 d

v=6.9

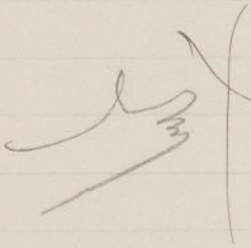
2857 ✓ U Puppis

g 2 v

v 3 R

15.3 v=9.5

M



g 6 R

✓2946 R Cancri

& e=v

v 5 f

15.7 v=6.5

M

✓ *3170 S Hydrae

e 5 v

f 1 v

15.7 v 4 g

v=~~8~~.7.7

M

Thursday Dec 13 1894

6.0 ✓ R Lyrae M

$\zeta = \underline{v}$

$\underline{v}\ 2\ \delta$

6.0 ✓ β Lyrae M

$\gamma\ 3\text{-}4\ \underline{v}$

7.7 7609 ✓ T Cephei

$\eta\ 2\text{-}3\ v$

$v = 8.$

Monday Dec. 17 1894

13.9 ✓ 432 S Cassiop. M

v5e
v5f
v=7.
e=f

✓ S Persei

14.2 v1=e M
v4f
v=8.

✓ 5157 S Bootis M

h1v
14.3 v6k
v= ~~9~~ 8.8

✓ 5190 R Camelop

14.6 c5v M
v2d
v=8.8

14.7 ✓ S Gemin. M

λ2v
v1n

14.7 ✓ η Gemin. M

μ4v
v1δ

Jupiter very near var.

✓ R Lyrae

6.0 δ1v
v1m

Monday Dec. 17 1894

14.9 1944 ∫ S Orionis

~~β~~ β 2 v

v 4 α

v = 7.5

15.0 2266 ∫ V Monocerotis

v = α

v ≠ 5-6 α

v = 7.

2857 ∫ U Puppis

μ 2 v

v 2 q

v = 8.5

15.9

μ 4 q

M

Tuesday Dec. 18 1894

7120 ✓ χ Cygni

6.2 η Cygn 2-3 v

η Sagae = v

v = 4.2

6.2 ✓ R Sagae

d 2 v

v = m

7085 ✓ RT Cygni

8.5 m = v

v 1 d

v = 7.

7259 ✓ RS Cygni

8.6 o 1 v

v 5 n

v = 8.

7351 ✓ RW Cygni

8.8 h' = v

v 4 h

v = 8.

7437 ✓ X Cygni

9.0 m 1 v

v = 7.

7456 ✓ RR Cygni

9.1 m 4 v

v = 1 n

v = 8.8

Tuesday Dec. 18 1894

~~[illegible]~~

9.4 √ 7783 RU Cygni

d 2-3 v

v = 8

v = 8.

9.6 √ 7795 RV Cygni

m 3-4 v

v = m

v = 8.5

9.7 √ 8068 S Lacertae

v = h about.

v = ~~8~~ 11.

7609 √ T Cephei

h 4-5 v

9.9 v = g

v = 8.5

243 √ U Cassiopei

I 1-2 v

10.1 v = 10.

678 √ U Persei

10.3 & v 1 = d

v 3 e

v = 7.8

Wednesday Dec 19 1894

5.8 √ √ η Aquilae
β 4 v
v = ε

5.8 √ √ β Lyrae
0 = 1 v
v 4 ζ

5.8 √ √ R Lyrae
δ 1 = v
v 1 = m

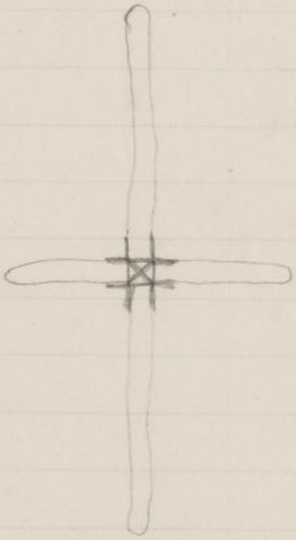
8.4 7437 √ χ Cygni
m ± 3 v
v = m
v 5 0

8.8 √ √ Sole o Ceti
0 ~~m~~ 4 v
v 2 p
v = 8.5 √

9.0 √ δ Cephei
ζ 4 v
v 2 ε

9.2 ~~1.4~~ √ 8290 R Pegasi
R 2 v
v = 10.8 √

~~L p 2 5 q (also called x)
q 3 R~~



Wednesday Dec 19 1894

976 T Arietis

9.18 l1v
v5m
v=8.5

1113 U Arietis
h 1v
v4k
10.1 v=8.

☞ g6h
h5k

1574 W Tauri
b=v
10.2 v3e
v=9.

10.5 2100 U Orionis
u2v
v=φ
v=8.8

2539 R Canis Min.
c3-4v
b1v
10.7 v3a
v=8.5

2684 S Canis Min.
d6v
10.8 v=e
v7f
v=7.6

Wednesday Dec. 19 1894

10.9 ✗ √ 2735 U Cancri Min.

δ 1 v

v = 8.

a 6 b β' 4 γ

b 4 δ γ 5 ρ

~~δ~~ δ 4 d β 4 η

d 5 α η 4 R

α 5 β' R 3 S

S 5 t

11.0 √ ζ Geminorum

n 2 v

v 1 x

12.0 2446 √ R Cancri

e = v

v 5 f

v = 7.5

13.7 3170 √ S Hydrae

e 3 v

v = f

v 5 g

v = 8.

14.0 3186 √ T Cancri

ζ 4 v

v 2 θ

v = 8.

Wednesday Dec. 19 1894

14.2 1944 √ S Orionis

β = v

v 7 α

v = 8.

2266 V Monocerotis

v 1 = d

14.5 √ v 3 d

v = 7.

2857 √ U Puppis

14.7 μ 1 v

v 5 q

v = 8.7

1222 √ R Persei

14.9 μ = v

v = 10.

√ M.P. 441

15.0 v 2 e

v = 6.5

1623 √ T Camelop

15.2 d 2 v

v 1 e

v = 7.8

1981 √ S Camelop

k 6 v

15.5 v 2 = l

v 1 m

v = 8.2

l 1 m

Wednesday Dec. 19 1894

√ η Gemin.

1517. μ 4-5 $\underline{V}$

$\underline{V}$ 1 = δ

$\underline{V\ 2}$-3 λ

Thursday Dec. 20 1894

9.4 7609 T Cephei

h 6 v

v 1 g

v = 7.9

~~9.4~~ 9.7 7779 S Cephei

e 6 v

f = v

v 6 g

v = 8.5

9.8 8600 R Cassiop.

v 1 l

v = 8.

9.8 432 S Cassiop.

e 2 f

v 5 e

v 6 f

v = 7.8.

814 S Persei

d 5 v

10.2 v 2 e

v 1 f

1574 W Tauri

10.6 b = v

v 3 c

v = 9.

Foggy

Thursday Dec. 20 1894

10.8 1944 S Orionis

β 2 v
v 4 α
v = 7.8

11.1 η Geminorum

μ 4-5 v
v 1 δ
v 2 λ

11.1 ζ Geminorum

n = v
v 2 x

12.2 M.P. 441

ζ = v
v 4 c
v = 6.5

12.4

ζ 6 c
c 2 x
x 1 d
d 7 e

14.6 1981 S Camelop.

g = h
h 3-4 k
k 5 l
l 2 m
m 6 n

l 1 v
v 2 m
v = 8.

n 3 p
p 1 = o
o 4 α

Thursday Dec. 20 1894

1510 5157 √ S Bootis
f $\overset{4}{5}$ v
v = g
v 2 h
v = 9.5

15.2 5190 √ R Camelop
v 3 d
v = 8.5

15.3 5955 √ R Draconis
m n 1 4 v
v 3 0
v = 10.

Saturday Dec 22 1894

5.2 √ R Lyrae

ζ 2-3 v

v 1 = δ

v 2 = m

5.2 √ ~~φ~~ χ Cygni

η Cygni 4 v

v 2 ζ Lyrae

v = 5.

5.3 √ β Lyrae

~~[illegible]~~ v 1 = γ

8.8 √ δ Cephei

v 5-6 v

v 1 ε

v 3 ζ

Polar Sequence
see half sheet.

Saturday Dec 22 1894

10.0 7783 RU Cygni

d 4-5 v
v 2 β
v = 8.1

p 5 e
e 4 k
k 5 d
d 6 ~~ℓ~~ β
β 4 ~~ℓ~~ δ
δ 2 ε
ε 1 a
a 5-6 η
η 6 ℓ

k 2 α
α 2 d

northern K.
d 2 [illegible] K
K K 4 β

η 6 x ℓ
ℓ = φ

k 3 x b
b 3 d

c 1 m
m 4-5 k

d 2 ~~k~~ γ
γ 2 β

Saturday Dec. 22 1894

11.7 8116 √ W Cephei
l 6-7 v
v = m
v = 7,8

2609 √ T Cephei
11.8 ~~g*~~
h 6 v
g = v
v = 8.2

243 √ U Cassiop.
11.9 ξ = v
v = 10.0

π 7-8 α
α 5 ψ
ψ 5 β
β 3 φ
φ 2 d
d 6 ε
ε 5 ξ

678 √ U Persei
d 4 v
v 2-3 e
v = 8,5−

c 3 d
d 2 e′
e′ 6 e
$\boxed{5}$ 3 c
v = 7 Red

e 2 f
f 7 g

Saturday Dec. 22 1894

678 U Persei
g 2 h
~~g~~ h 3 k
k 6 l
l 3 m
m = n
n 6 o
o = 11.2

1222 R Persei
γ 4 δ
ε 2 η
η 4 θ
θ 7 ~~κ~~ d
d ~~κ~~ 4 β
β 4 h
h 3 k
k 5 λ
λ 4 π
π 6 μ

π 5 ν
ν 2 μ
ν = 9.7

15.5

m.P. 441
ξ 2 ν
ν 2 c
ν = 6.5

x = d
d 4 e
e 6 ξ

ξ 5 c
c 2-3 x

Saturday Dec. 22 1894

13.8 √ ζ Geminorum

A λ 1 $\underline{v}$

$\underline{v}$ 1 m

15.8 √ η Geminorum

μ 3 $\underline{v}$

$\underline{v}$ 2 d

Sunday Dec 23 1894

R Lyrae
δ 1 v
v 1 λ

5.6 β Lyrae
γ = v

5.6 χ Cygni
η Cygni 2 v
v = η Lyrae
v = 5.1

5.6 η Aquilae
8.4 γ 4 v
v 1-2 ξ
v = ξ

8.5 1574 W Tauri
f = v
e 3 v
v = 9.5

e 3-4 ∢ f

7783 RU Cygni
h 5 e
e 4 k
k 3 d
d 6-7 β
β 5 ε

ε 1 a
a 6-7 η
η 7 ρ

Sunday Dec. 23 1894

7783 RU Cygni

k 5 α
α = d

η 6 ξ
ξ 2 φ

β 2 ~~α~~ d
d β ~~α~~ 4 ε

k 3 b
b 1 d
northern k
γ d 6 k
k = β

9.7 √ S Gemin.
A λ 4 v
v 3 u
9.7 √ η Gemin
μ 5 v
v = d
v 2 γ

Very Cold. moisture gathers on eyepiece too rapidly to observe.

Thursday Dec. 27 1894

√ 806 o Ceti

10.9 0 2 v

v 5 p

v = 8.

1944 √ S Orionis

11.1 β = v

v 5 α

v = 8.5

2266 √ V Monocerotis

11.3 α 1 v

v 1 α

v = 8.

Meteor 8^{mag}

2 minutes later Meteor 8^{m}

& same direction

√ 2859 U Puppis

11.7 0 1 v

v 1 p

v = 9.

0 2 p

7609 T Cephei

11.9 q 2 v

v 4 k

v = 8.5

Thursday Dec 27 1894

12.0 7229 ✓ S Cephei

g 5-6 v

v = h

v = 9.1

8600 ✓ R Cassiop

l 5 v

v 1 m

12.2 v = 8.5

✓ 132 S Cassiop

v 2 l

v = ~~8.~~ 7.5

12.4 ~~e 2 f~~

~~f~~

✓ ~~8~~ S Persei

l 1 v

v 1 f

v = 8.5

12.5

Smoke.

14.2 3825 ✓ R Ursae Maj

R 4 v,

v = S

v = 11.

Thursday ~~P.~~ Dec. 27 1894

14.5 4557 S Ursae Majoris
l 3 v
v 2 m
v = 9.5

14.6 4511 T Ursae Maj
Invisible < 11.0

5157 S Bootis
14.7
f 4 v
v 2 g
v = 9.2

14.8 5190 R Cameloparg
d 2 v
v 1 e
v = 9.

5955 R Draconis
14.9
m ~~m~~ 2 v
v 2 ~~m~~ o
v = 10.

2100 U Orionis
15.2
f 1 v
v 5 o
v = 9.5

2539 R Canis Min.
15.3
a 5 v
v = 10

Moisture on Eye piece interferes Very Cold.

Thursday Dec 27 1894

15.5 ✓ ζ Gemini.

~~μ 4 ν~~
~~ν 2 δ~~

λ 3 ν
ν 2 μ
ν 4 ζ
5

15.5 ✓ η Gemini.

μ 4 ν
ν 2 δ

Friday Jan 4 1895

U Cygni 7299
k 6 l

V Cygni 7428
k 1 l
l 7 m
m 1 α
α 5 β

R Vulpeculae
b 2-3 e
e 4 x d

g 5 h
k 3 l
~~[illegible]~~

6.5 7120 χ Cygni
η cyg m 4 v

7609
11.7 ~~7906~~ T ~~S~~ Cephei
g 5 v l
k
v 2 8.5

11.8 7729 S Cephei
g 4-5 v
h 1-2 v
v 9.

Friday Jan 4 1895

12.0 8600 √ R Cassiop

l 4-5 v

v 1 m

~~432~~ S ~~Ca~~v = 8.8

12.1 432 √ S Cassiop

v 1 e

v 3 f

v = 8.1

12.3 4557 √ S Ursae Maj.

k 1 v

v 4 l

v = 8.9

12.4 √ η Gemin

μ 5 v

v 2 d

v 3 λ

12.5 √ ζ Gemin.

λ 2 v

v 1 l

Very cold clear below Zero

Sunday Jan 13 1895

14.2 η Geminorum
μ 5 v
v 3 δ

14.2 ζ Geminorum
δ 2 v
v = λ

2976. V Cancri
a = b
b 6 c
c 3 d
d 7 e
e 7 f
e 4 g
g 3 f
k 1 h
h 8 l
l 2 m
m 2 n

m

R Cancri
15.2 v 2 q
v = q1

Sunday Jan 13 1895

4948 R Canum Ven

a 3 b
b 5 c
c 6 d
d 1 e
~~f~~ e 4 f
f ~~e~~ 2 g
g 4 h
h 1 k
k 2 l
l 5 m
m 3 n
n 3 o

Mu

Mu

Saturday Jan. 19 1895

7120 √ χ Cygni

y χ 3 γ

γ 6 δ

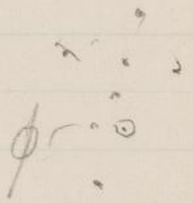
δ 2 α ([illegible])

n 6 o

o 2 p

6.4 (Opera) φ 7 v

v = 6.5



√ Cygni

k 1 l

l 8-9 m

7609 √ T Cephei

k 6 v

v = l

v 4 m

v = 8.8

R Arietis

a 3 b

b 7 c

c 2 d

d 7 ~~f~~ e

e 5 f

f 7 g

g 1 h

h 3 k

k 4 l

l 1 α

α 6 β

β 5 γ

γ 3 δ

Saturday Jan. 19 1895

3184 T Hydrae

a 3 b
b 7 c
c 1 d
d 3 e
e 6 f
f 7 g
g 4 ~~h~~ k

f 3 h
h 5 g
~~k~~
k = m
m 4 l

3477 R Leonis Minoris

k 5 l
l 1 m
m 3 n
n 4 o
p 5 q

a 3 b

3493 R Leonis

a 3 b
b 2 c
c 3 d
d 4 e
e 2 f

f 3 g
g 4 h

R 3 S'
R_1 3 S
S' = S
S = T
T ½ u'

T 1 w
w' 7 u
u 2 w_1
w_1 3 x'
x' 3 x
x 3 y

Saturday Jan. 19 1895

4315 R Comae

d ~~4~~ 5 e
e 2 f
f 2 g
g 5 h

n 7 α
α 1 β
β 7 q (δ)
q = δ
δ = 11.7

4377 T Virginis

a 5 b
b 5 c
c 2 d
d 7 e
e ~~4~~ 5 f
f = g
g 6 h
h 3 k
k 4 l
l 4 m
m 6 n
n 3 d

Saturday Jan. 19 1895

4407 R Corvi

a 2-3 b
b 5 c
c 5 d
d 2 e
e 5 f
f 3 g
g 7 h
h 3 k

4492 Y Virginis

a 7-8 b
b 1 c
c 2 d
d 5 ~~7-8~~ e
e 3 f
f 2 g
g 4 h
h 3-4 k
k 4 l

4596 U Virginis

a 3 b
b 4 c
c 6 d
d 3 e
e 4 f
f 3 g
g 5 h
h 2 k
k 2 l
l 3 m
m 6 n

Wednesday Jan. 23 189~~4~~5

2528 R Geminorum

f 7-8 g
g = h
h 4 k
k 3 l
l 1 m
m 3 n
n 3 o
o 5 α
α 6 β
β 5 γ
γ = δ
δ = 11.2

Monday Jan. 2~~8~~9 1895

o Ceti

a 7 b
b 7-8 c

e 3 f
f 6 ~~7~~ g
g 4 h
h 8 k
k 3 l
l 3 m
m 2-3 n
n = o
o 1 p
p 3-4 q
q 3-4 R
R 6 s

R 5 t
s = t

s 1 u
t 5 u

~~s 1 v~~
~~t 1-2 v~~
~~v = 6.5~~

Observed faint lights in the Leo & Virgo with Prof. Searle. I think Prof Searle hypnotised me.

1895 Jan 30 Wednesday

11.8

M.P. 441 1279 — Camelop.

v 1 = x c

v 3 x

v = ~~7.1~~ 6.8

2528 R Geminorum

a 7 b F

b 2 c F

c 6 d

d 6 e

e 1 f

f 6 g F

2976 V Cancri

e 5 ~~f~~ g x

g ~~f~~ 2 ~~g~~ f x

f 3 k x

e 5 h x

h 1 = g x

k 3 l x

R Leonis Minoris

a 3 b x

k 4 l x

l 3 m x

m 2-3 n x

1895 Jan 30 Wednesday

R Leonis
R 4 s X

t 2 u' X
u' 6 u X

4377 T Virginis
c ~~6~~ 3 d X
d 6 e
e 4 f X
f 2 g X
X

Clouds

Feb. 2 1895 Saturday

η Geminorum

14.0 μ 6-7 $\underline{v}$

$\underline{v}$ = δ

2976 V Cancri

× $\underline{e}$ 5 g

× g 2 f diff to compare

× f 3 k

× k 4 l

14.3

e 7 h

g 1 h

h 2 f

3184 T Hydrae

a 7 b

b 5 c

c 1 d

c is a little red.

$c = 4^{\text{Red.}}$

f 3 h

f 4 g

g 2 h

h 7 φ

φ 6 m

m = k

K 5-6 l

Saturday Feb. 2 1895

4377 T Virginis
c 3 d
d 4 e
e 5 f
f 1-2 g

m 3 n

4407 R Corvi
a 3 b

4492 Y Virginis
a 5 ~~b~~ c
~~b~~ c 2 b
b 3 d
d 7-8 e
e 2 f
f 3 g
g 6 h
h 2 k
k 2 l

seeing very poor.

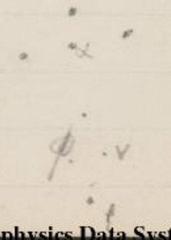
16.1

β Lyrae
ξ = v
v 3 0

R Lyrae
γ 2-3 v
v = 0
v 3 ξ

16.1

χ Cygni
φ = 1 v
v = 5.5



Saturday Feb. 2 1894

16.4 T Capri

l 4 v

v = m

v 4 m

v = 8.5

Monday Feb. 4 189~~4~~5

2976 √ Cancri

g ~~x~~ 2 h

h 4 f

e 6 g

g 5 f

f = k

k 4 l

4596 U Virginis

h 5-6 k

k 1-2 l

l 2 m

m 6-7 n

n 7 o

o = p

158 √ R Lyrae

o 1 v

v 4 ξ

158 β Lyrae

γ 3 ~~v~~

~~φ~~ v 2 ξ

Tuesday Feb. 5 1895

12.0 5° below zero

13.5 2976 V Cancri

M

g 3 h
h 1-2 f
d 6 e
e 7 g
g 5 f
f 3 k
k 3 l

T Hydrae
a 5 b
b 3 c
c 2 d

f 2 g
g 1 h

f 3 h
h 6 k
K 1 q

Seeing very poor

4300 X Virginis
g 3 h
h 2 k
K 7 l

Tuesday Feb 5 1895

15,6 ✓ β Lyrae
v 1z γ

15,~~8~~ 6 ✓ R Lyrae
o 1 v
v 4 g

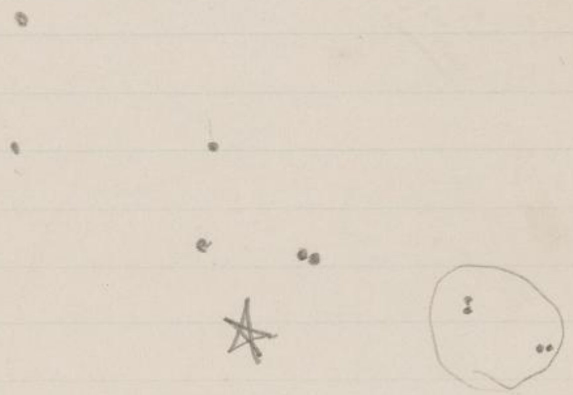
Wednesday Feb. 6 1895

13.5 Thermometer 0° M

V Cancri

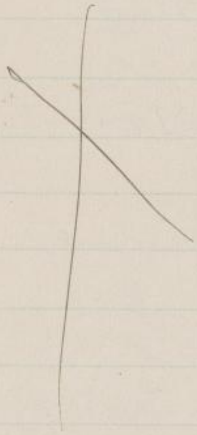
* 9 3 h
8h 3 f

Seeing very poor; stars at intervals of a few seconds look like nebulae.



Sunday Feb. 10. 1895

2976 V Cancri M



g 2-3 h
h 1 = f

e 4-5 g
g 6 f
f 3 k
k 3-4 l

5237 R Bootis

e 4 f
f 3 g
g 3 h
h 2 k

k 3 l
l 3-4 m
m 3 n
n 4 o
o 4 p
p 4-5 q

5501 S Serpentis

a' b 4 c
c 6 d

5504 S Coronae

a 3 b
b 6 c
c 5 d
d 3 e

g 5 h
h 2 k
k 3 l

Secchi "f"
l 2 m
m 3 n
n 2-3 o

Sunday Feb. 10 1895

7609 T Cephei

15.0 l 1 v

v 2 m

v 5-6 n

v = 8.5

m

R Cygni

15.1 o 1 v

v 2 ξ

x v 4 δ

β Cygni

15.2 γ 1-2 v

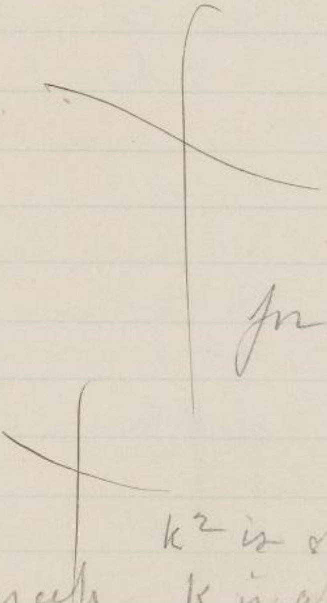
v 2-3 ξ

Monday Feb. 11 1895

1577 R Tauri

M

~~c~~ c 1-2 d
d 5 e
e 3 f
f 6 g



h - k. difference too great for comparison.

h 3 K^2
K^2 6 l

k^2 is star 4'-5' S. of K as given on map K is at +10° 38' approximately and α 4^h 20.7 (1855) It slightly follows K. I think K^2 is the star originally intended for the position. Perhaps the present K is due to an error in making the chart.

There was no error in the chart. See [illegible] where K^2 is entered as g

m 3 n
n 2 0

2976 V Cancri

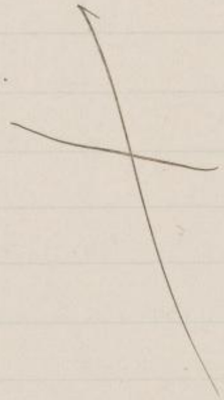
g 3 h
h 2 f

e 3 g
g 6 f
f 6 k
k 3-4 l

Monday Feb. 11 1895

3184 T Hydrae

a 6 b
b = c
c 5 d



f = g
g 4 h
h 4 k
k 7 l
l 8 m

Thursday March 14th 1895

9.8

✓ +62.596
c 1 v
v 3 d

Sunday March 17 189~~4~~5

7.8 μ Geminorum ?

δ 2 μ

μ = λ

7.9 5 δ Gemin.

δ 3 ν

ν 3 L

Monday March 18 1895

2609 T Cephei

7.5 m6-7v

m1v

v=9.

7.6 814 S Persei

fg4v

v2g

v=8.8

7.7 S Geminorum

v=c

v1n

v47

Saturday March 29 1895

7609 J I apsi

9.7 m 7 v

v = m

v = 9.5

J 3 Ganimorum

n = v

9.8 v 2 X

Wednesday, April 10 1895

✓ T Cephei

9.0 $\underline{m}$ 1 v

v 2 $\underline{m}$

v = ~~x~~ 8.9

Faint auroral arch in north.

✓ S Geminorum

9.1 m 1 v

v 1-2 x

Thursday May 2 1895

T Cephei

9.6 l=v

v4m

v=8.8

Thursday May 23 1895

T Cephei

10.8 g4v

v2k

v=8.3

Friday May 24 1895

T Cephei

g3-4v

9.0 v2k

v=8.5

Friday May 24 1895

β Lyrae

9,2

β = }
β 2 0

Sunday June 9 1895

9.7 7609 T Cephei

h 2-3 v

v 2 g

v = 8.

9.7 β Lyrae

γ 4 β

β 1 ζ

β 4 o

9.9 R Lyrae

~~oe~~ o 2 v

v 2 ξ

10. δ Cephei

α

ε 1 δ

δ 2 ι

Sunday June 23 1895

7609 T Cephei

10.2 f 4 v
h 1 v
v 4 g
v = 8.

δ Cephei

10.3 γ 3 v
v 3 ζ

Tuesday July ~~8~~ 15 1895

T Cephei

10.5 $f = v$

$v\ 4\ \underline{h}$

$e\ 7\text{-}8\ v$

$v = 7.5$

β Lyrae

$\gamma\ 1\text{-}2\ \underline{\beta}$

$\beta\ 4\ \zeta$

v

δ Cephei

107 $v = \underline{\zeta}$

$\iota\ 6\ \underline{v}$

Sunday July 28 1895

10.6 β Lyrae

$\gamma\ 2\ \underline{\beta}$

$\beta\ 2\ \underline{\zeta}$

10.6 δ Cephei

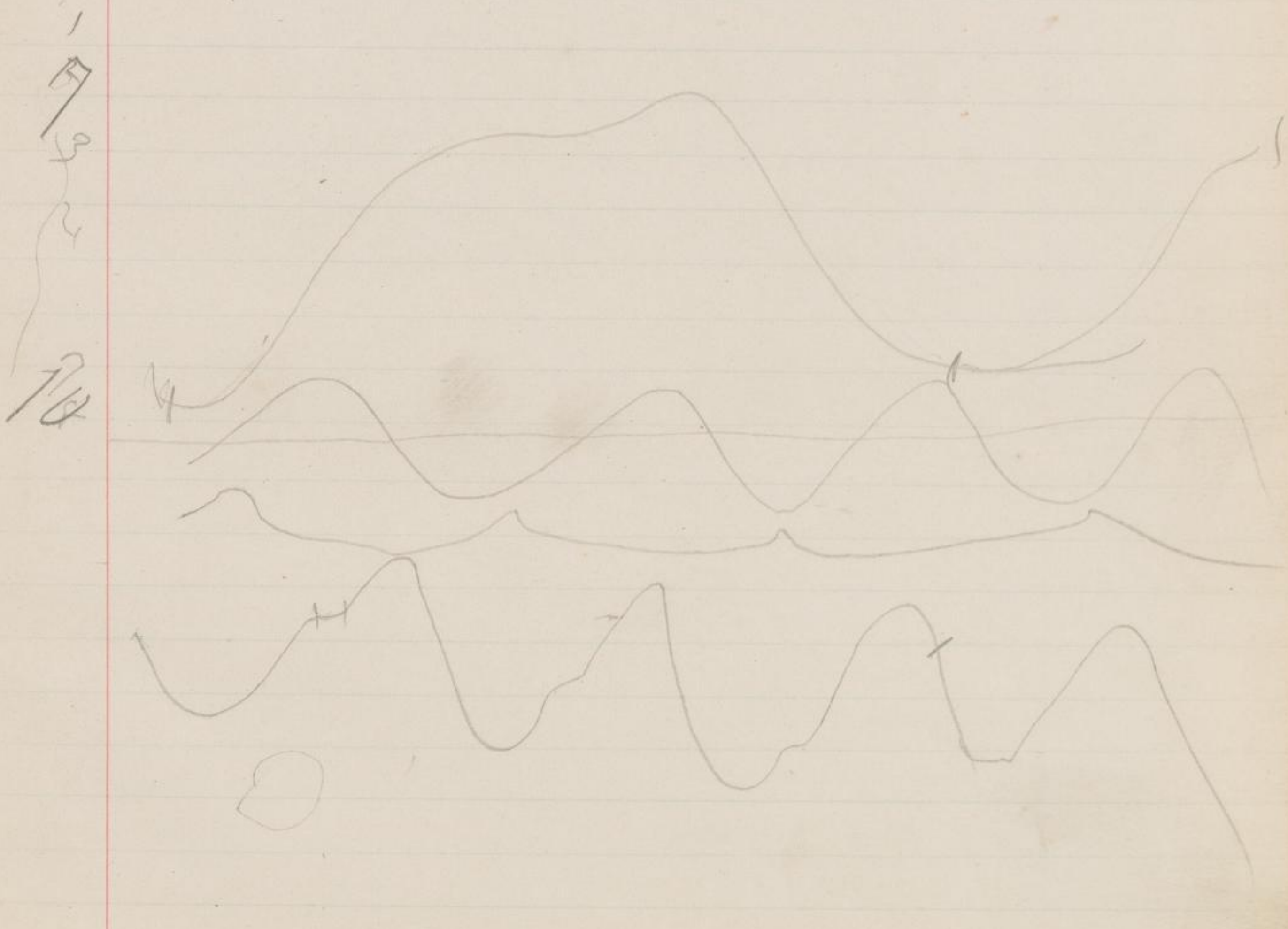
$\iota\ 3\ \underline{v}$

$v\ 2\ \underline{\gamma}$

Aug. 10 1895 Saturday

π^1 δ Cephei M
d 6-7 v
10.2 v 1 e
v = 7. magn.

S Persei M
g 2 v
10.5 v = 8.5



Friday Aug. 16 1895

T Cephei

10.5 d6v

v1e

v=17.

Sunday Aug. 18 1895

8:6

δ Cephei

$\underline{\zeta}$ 2 v

$\underline{v}$ = ε

v 5 $\underline{\gamma}$

Wednesday Aug. 21 1895

δ Cephei

14.3 $\gamma\ 4\ \underline{\nu}$

$\nu\ 1\ \underline{\xi}$

Tuesday August 27 1895

T Cephei

M

d 2-3 V

8.5 V 3-4 e

v = 7.

Sunday Sept. 1 1895

8.5 T Cephei M

d 2 v

v = 7.

8.8 S Persei M

f 5 v

v = 9

v = 8.5

The contents of this book are all ledgered.

Apr 20, 1901 (LC)