KG
11365
454

KG 11365.454

West Equatorial

Record

W. M. Reed

6.72
6.58
1.30
6.65

KG 11365.454

HARVARD
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Tuesday March ~~7~~ 8 ~~186~~ 1898

103 T Andromedae
α 2 α′
α′ 5 γ
γ 3 β
β 2 ε
ε 5 δ
δ 3 η
η 2 / ι
ι 6 λ
λ 4 θ
θ 2 k
k 4 k′
k′ 4 a
a 4 b

7:45 3170 S Hydrae
Invisible

M L

3477 R Leonis Minoris
7 55 Invisible.

U Cephei
d 3 s
s 5 g
g 5 h
h 5 q
q 5 n

n 2 t ✓
~~n 3~~ q 3 R ✓
R 1 n

Tuesday March 8 1898

U Cephei

g5f
f1h ✓
f4g

g'h ✓
g5g'

g5h ✓

f5k ✓
k1h

s1x ✓
x2g

h3m ✓
m1q

q2o ✓
o1m

q2p ✓
p1m

Wednesday March 9 1898

T Andromedae

α 2 α'
α' 3 γ
γ 1 β
β 6 ε
ε 3 ~~η~~ δ
δ ~~η~~ 2-3 ~~φ~~ η
η 2 ζ
ζ 5 λ
λ 1 θ
θ 2-3 ~~ι~~ κ
κ 3 κ'
κ' 2 a
a 2 b
b 4 c

Monday March. ~~[illegible]~~ 14 1898

320 U Cephei

d 3 s
s 6 ~~d~~ g
g 6 h +
h 3-4 g
g 4 m

g 5 l √
l 1 h

R = n √
g 3 R

g 2 f √
f 3 g

n 2 t √

g 6 g' √
g' 1 = h

g 5 k
k 1 h √
k 6 g

m 2 g √
h 4 m

g 1 0 √
0 2 n

Aurora

g 2 p
p = 0

d 2 x
x = s
x 4 g

Friday March 18 1898

T Hydrae

a 5 b
b 7 c
c 1 d
d 4 e
e 7 f
f = g

Stopped
by
Clouds

Thursday March 31 1898

8 52 R Cassiop seeing very poor H Le M
n 1 v
v = 8.5

S Cygni H M
v 1 h
v = 10.1

R Com Ven Le M
g = v
v 5 h
9 40 S.T. ^{h} 32^{m} P = 3^{h} 16^{m} E
$\delta = 50°.0$

R Bootis
ie 1 v
v = f
9:51 S.T. 43^{m} P = 3^{h} 52^{m} E
$\delta = 27.2$

Tuesday April 26 1898

R Virginis

a 3 b

b 4 8 c

c 3 d

d 2 e

e 4 f

f 8-9 g

g 4 h

h 4 k

k 3 l

l 6 m

m 3 n

n 3 o

o 4 p

p 3 q

q 5 α

α 3 β

9 25 q 1 v

v 5 α

β 3 γ

γ 3 δ

δ 4 e

X Virginis

10 40 β 1 v

v 1 γ

Saturday May 7 1898

2976 V Cancri 4

8:45 α 3 β

β 5 a

a 6 b

b 7 c

c 6 d

d 3 e

e 2 $\underline{f}_1$

f_1 5 g'

g' 3 $\bar{g}$

$\bar{g}$ 4 $\underline{h}$

h 4 $\underline{k}$

k 4 l

l 3 l'

l' 3 m

l 7 m

m 3 n

9.19 g' 2-3 v

v 1 g

v = 9.3

S.T. 12 20

h 4 22 W

+17°

Saturday May 7 1898

8^h 30 R Leonis

s = v

v 2 t

v = 8.8

4300 X Virginis

a 6-7 b F M

g 4 h

h 2 k L M

α 2 v

v = β H M

poor seeing.

χ Cygni

a 5 b

11^h 0 b 2 c

~~Schurig:~~ ~~c = d~~ c 3 d on hand chart

~~d 5 e~~ d 3 e

~~e 4 f'~~ e 4 f

~~f'~~ f 5 g

Monday May 9 1898

x 4300 X Virginis

a 5 b F.

g 4 h
h 3 k

4377 T Virginis

n 5 α H

α 5 β
β 3 β'
β' 4 γ H

11:10 V invisible. H

V 7 γ

4407 · R Corvi

α 6 β
β 6 γ
l 2 α

a 6 b
b 4 c
c 5 d
d 1 e
e 7 f
f 3 g

Monday May 9 1898

R Corvi
g 4 h
h 3 k
K 3 l

Tuesday May 10 1898

43 ae X Virginis
a 6 b
var. as usual. X F

T Virginis
n 5 α
α 2 β
β 3 β'
β' 3 γ X

4407 R Corvi
a 4 b

α 6 β
β 6 γ X

Y Virginis
d 7 e 4

f 7 g
g 3 h

l 3 α X H
α 7 β
β 1 γ

v = ε
10 24 but v not certainly identified

Tuesday May 10 1898

U Virginis
a 1 b
b 2 c
c 6 d
X

S S Cygni
invisible

11 3 ✓ V > β

May 13 1898 Friday

h m		
10 54	S S Cygni Invisible < β	Σ L Hazy.

Saturday May ~~19~~ ~~20~~ 21 1898

4521 R Virginis

a 6 b

b 0 c

Possibly c is a triple brighter than b

c 3 d

d 2 e

e 3-4 f

f 4 g

g 4 h

h 6 k

k 4 l

l 5 m

m 3 n

n 2 o

o 3 p

p 3 q L

q has a faint comp. to N.

q 3 α H

11 17 α 5 β

β 3 γ

α 1 v

v 2 β H

S Cygni

a 4 v L

11 40 v 3 e

@ v 1 b L

Sunday May ~~21~~ 22 1898

SS Cygni

10:20

a 4 v
v 1 b
✓ v 2 c
V = 11.5

β Lyrae

10:26

γ 4 v
v = ξ
v 4 o

Monday May 30 1898

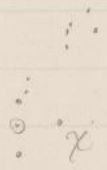
Observe b in R Virginis 4521

10:18 SS Cygni

$v = x$

Magni

$v = 8.0$



Passing clouds.

C ✓

$x = f$ on new notation.

Tuesday May 31 1898

SS Cygni

9:57 Passing clouds
New Notation
✓ g 1 v
v 3 h

Tuesday. June 1~~3~~4 1898

2478 R Cygnis
f 5 v
8:58 v = ~~e~~ g
~~f~~ v 6 h
v = 9.4

4300 X Virginis
d 3 v
9 5 v 1 β
v = 10.5

Meteor 8^{magn} white

4377 T Virginis
9 12 l 6 v
v 1 = m
v 4 m
v = 10.5

9 13 4492 Y Virginis
Invisible

4511 T Ursae Maj

9 20 v = φ
φ = 12 28 36 + 60° 6'.5 10.8^{m} (1855)

Tuesday June 14, 1898

4521 R Virginis
m 1 v
9 25 v 1 0
v = 10
4557 S Ursae Maj
h 1 v
9 30 v 3 k
v = 9.4 mag.
4596 U Virginis
9 37 Invisible. Le
4826 R Hydrae
k = v
v 6 l Opera
9 46 v = 6.
5190 R Camelopardi Le
9 54 c 6 v
v 1 d
v = 9.5
10 3 5494 S Librae Le
~~l~~ m 3 v
v = m
10 10 5501 S Serpentis
h 5-6 v
v 5 l
k = v
10 13 5504 S Coronae
k 5 v
v 2 l

Tuesday June 14 1898

5511 Librae
10 22 k 6 v
v = l
v X 2 m

5770 R Herculis
var. seen w. diff
10 28 β 2 v

5830 R Scorpii L
Invisible

10 33 5831 S Scorpii L
barely glimpsed

10 46 6834 V Aquilae
v = α
v 2 β L
v 3 ζ
Very Red. = 10 Redness.

10 54 7085 RT Cygni
θ 2 v
v 1 o
v 2 π
v = 11.

7120 χ Cygni
11 8 n 3 v L
v = o
v 1 p

Tuesday June 14 1898

11 13 7192 Z Cygni

van Muiselle

S S Cygni

11 18 ✓ p 3 v lo

Y Aquilae

11 29 b = v afma.

v1 = a

Wednesday June 15 1898

10 2 Y Aquilae opera
V4-5c
v 2 a
v 1 = b
7220 S Cygni 4
10 17 Invisible
7261 R Delphini
10 37 R 1 v 4
v 2 l
7428 V Cygni
10 48 (m) 4 v
v 2 (p)
7458 V Delphini
β 3 v
v = a
0 4
11 58 v 4 y

Meteor 8 magn

Meteor 6 magn

11 5 7468 T Aquarii
O 1 v
v 1 d
V = 10
7560 R Vulpeculae 4
11:13 v = e
v = 14.

Wednesday June 15 1898

T Cephei. Le
l 1 v
11 25 v 6 m
v = 9.1

S Cephei
7779 e 5 v
v 2 f Le
11 33 v = 9.2

S S Cygni
11 40 p 3 v

+ ~~V~~ Aquilae
11 44
v 2 a apura.
v = b
v 4 c

~~Thu~~ Friday June 17 1898

5757 S Boötis
9 1 Invisible Cloudy L

9 5 5948 R Draconis
Invisible Hazy L

8600 R Cassiop
9 15 l 1 v
v 5 m Hazy L
v = 8.5

107 T Cassiop
9 22 n 4 v Hazy L
v 2 o
v = 10.8

Y Aquilae Clear
9 55. v 1 d
v 1 = b Opera
v 3 a

β Lyrae
10 9 f 5 v
v 1 g

7783 RU Cygni L
10 25 p 4 v
e 1 v
v 5 k
v > 8.

Friday ~~Dec~~ June 17 1898

10 30 8068 S Lacertae
d 7 v
v = 10.6

9 35 δ Cephei
ζ 5 v
v 1-2 u

Y Aquilae
d = v
10 54 v 2-3 ~~b~~ a
v 1 b

Wednesday June 21 1898

Meteor
Very brilliant
$10^h\ 1^m$
Dec. S 3° hour Angle W $4^h\ 13^m$

I was facing East at the time clouds in ~~that~~ direction brilliantly illuminated. The above is the position when I saw a faint trace of meteor through clouds, after the explosion.

Tried for reappearance of 5.2 magn star lost by clouds. could be seen plainly when about 3' ~~m~~ from ☽ (seen w. low power.)

Wednesday June 29 1898

S Bootis
8 50 Invisible 4 M

Y Aquilae

9 10 v 1 b opera. M
~~b~~ v 2 a
v 6 c
v 1 = d

9 53 S S Cygni H M

c f 3 - 2 v

R Vulpeculae
comp. stars

M 1 β
β 6 δ
δ 1 = d

Something is the trouble
w. these comp. stars

Make a chart & look up
Record.

June 30 1898 Thursday

clouds over sky

looked for occultation of 6.mg star by moon without success,

10 15 SS Cygni
faint.

Thursday July 8 1898

9:15 η Aquilae

~~v 1~~ d 1 v

v 2 ~~b~~ a

v 1 b

9 25 β Lyrae

j 6 v

2 v

v 2 o

SS Cygni

9 33 c j 4-5 v ho

old notation.

10 6 5955 R Draconis

v 2 p

o 6 v

10 14 7261. R Delphini

~~a 1 v~~ | o 1 v

~~v = a~~ v 5 p

v = q.

φ = q. susp. var.

a 2 b

b 5 c

c 2 d

d 6 e

e 1 f

f 6 g

Thursday July 8 1898

7261 R Delphini

g 2-3 h
h 8 k
k 3 l
l 5 m
m 6 n
n 1 0
0 5 p
p 2 α'

Mr

Lp

Y Aquilae

11 22

v 3 a
v 1 b
v 1 d

Mr

July 15 1898 Friday

β Lyrae

9 12 o 5 v

v 1 δ

v 1 ζ

v 2 k

Y Aquilae

v 4 a

9 35' v 1 d

v 1-2 b

SS Cygni

9 55 c ζ 5 v

δ Cephei

ζ 1 v

10 0 v 1 ε

Wednesday July 20 1898

SS Cygni slightly cloudy.
8:50 c * e 1v 4
v 5 f

3825 R Ursae Majoris
Invisible c 4

9.3 4511 T Ursae Maj c
Invisible

9 30 5157 S Boötis
h 3 v

Y Aquilae
10 15 v 3 a 3 Agree
v 1-2 d 1-2
v 2 f 2

R Draconis
10:40 h 3 v 4
v = 0

T Cephei
10.55 h 4-5 v
v = g 4
v 6 k

SS Cygni
11:00 c no perceptible change.

Friday July 29 1898

17 20 SS Cygni Le m

v about $\frac{1}{2}$ β.

c seeing poor.

Thursday Aug. 4 1898

10 25 S S Cygni
Invisible M L

Moisture collected on eye piece so rapidly that I could not use the high power.

7261 R Delphini

10 50 Invisible. L. M.

T Aquarii
11 14 e 6 v
v = f

but moisture gathers on eye piece so rapidly that it is impossible to make an accurate observation.

Saturday Aug. 27 1898

SS Cygni

$8^h\ 0^m$ ✓ ~~f~~ a 3 ✓ L M

cloudy.

Sept. 6 1898 Tuesday

$8^h\ 0^m$ e SS Cygni

b 3 v

c 1 v

v 4 d

7261 R Delphini

8 12 Invisible-

8 24 7428 V Cygni

l 4 v

v = 10

8 36 7458 ✓ V Delphini

β 3 v

v 1 α

8 50 7560 R Vulpeculae

k 2 v

v 6 l

T 27
W 28
Th 29
F 30
Sat 1

Tuesday Sept. 27 1898

6834 V Aquilae L m

10 25 α 6 v
v = ζ
v 4 β

7085 RT Cygni L m

11 0 ~~α 4 v~~
γ 4 v
v 1 δ

7120 χ Cygni H m

11 15 apparently invisible
identification ~~of~~ a little doubtful

7192 Z Cygni L m

11 25 k 2 v
v 3 ζ

β Lyrae Σ

11 26 v = γ

Wednesday Sept. 28 1898

h m
8:10 5770 R Herculis M H
m 3 v
v = n
v 6 o
v = 10.

8 12 6905 R Sagittarii M L
Invisible.

8 35 8068 S Sagittae L M
b 4 v
v 1 a

9 00 103 T Andromedae
ε 3 v
v = d

9 10 112 R Andromedae L M
Invisible

9. 15 β Lyrae ε M
v 1 γ

U Cephei
Comp. Stars m 2 t † M L

d 4 s
s 5 g
g 5 h
h 6 q
q 2 n

s 1-2 x
x 3 g
q 1 y p
p y 3 n

Wednesday Sept. 28 1898

10 55 5955 R Draconis L M
a 2 v
v 2 b

7220 S Cygni L M
11 0 glimpsed

7609 T Cephei
11 10 d = v L M
v 6 e

7779 S Cephei
11 20 c 3-4 v L M
v 3 d

Thursday Sept. 29 1898

9 0	5889	U Herculis f 1 v v 2-3 g	L. M
9 4	6044	S Herculis h 1 v v 3 k	
9:8	6733	R Scuti v 3 f	
9 21		R Sagittarii l 5 v v = m	H M Hazzy
9 26	7259	RS Cygni d 6 v e 1 v v 6 f	L M
9 33	7299	U Cygni k 5 v v 1 l	
9 39	7468	T Aquarii v 1 p	L. M

Thursday Sept. 29 1898

9 38 8230 S Aquarii
Invisible
moon light very bright. Le M

8leoo R Cassiop
Invisible L M
10 0 moon light very bright.

107 T Cassiop.
g 4-5 v
10 10 v = h

10 14 432 S Cassiop H M
v 3 k

11 8 806 o Ceti.
L.S.R
17.4
15.9 g 3 v
3.3 v 1-2 h
16.65 magn. 2.67 v = 2.17 magn. Eye M

Friday Sept. 30 1898

10 7 β Lyrae Eye M
0 2 v
v = ζ

o Ceti S.S. Magn.
10 12± g 2-3 v 16.9 = 2.68 Eye M
Moon very bright

S S Cygni
Invisible
Moon light very bright. L M

Wednesday Oct. 5 1898

9:4 o Ceti

g 1-~~2~~ V

obs. uncertain clouds
in the neighborhood.

Thursday Oct. 6 1898

806 o Ceti

10 10 f 6 v L

g 1 v

v = h

h 8 k

k 1 l

β Lyrae

10 0 γ 6 v

v = ξ

v 3 o

SS Cygni

10 40 c b

~~γ~~ 2 v L

T Andromedae

10 50± ε = v

v 2 d

β 5 v

Sunday Oct 9 1898

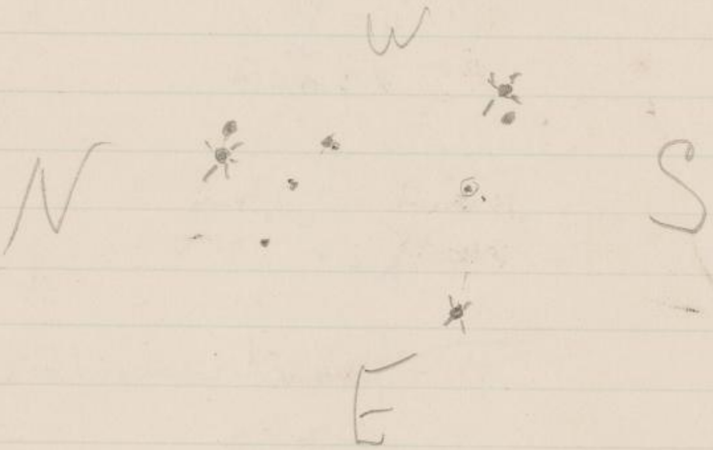
o Ceti

10 40 g 2 v
v 1 h max 2.65 Eye

S S Cygni

11 0 f 1 v
v 2 d

Faint stars in neighborhood



Monday Oct. 10 1898

U Persei
e' 3 e
e = f — Le
f 7 g'
g' 2 g

o Ceti
10 0 g 1 v — magn. 2.57 — E
v 2 h

T Androm.
γ 4 v — Le
11 10 β 2 v
v 4 ε

Wednesday Oct. 12 1898

7.25 6132 R Ophiuchi

.k4v
v1l
v = 9.1

m6o
o5p
p3q

286.6
~~288.~~
228.4
331.3
329.6
327.0
328.0
327.8
329.3
106.4
108.4
108.6
107.0
109.8
150.9
287.8

Wednesday Oct. 12 1898

105.6
106.0
151.3

Sole o Ceti
f 5-6 v
10 20 v 1 g

287.6
328.1 Rev.
329.3
107.6
149.3
289.8

329.6
107.0
111.5
127.0

108.9
149.3
289.8
330.7

108.1
147.6
287.6
329.6

Wednesday Oct. 12 1898

110.9
150.0
258.9
327.1

~~Thursday Oc~~
Friday Oct. 28 1898

S S Cygni
9:13 Invisible Le M

S Arietis
9 18 Moon light too bright Le M

R Arietis
9 21 moon light too bright. Le M

U Arietis
9 24 moon light too bright. Le M

adjustment of Telescope
when telescope is / W
add 0°.5 to setting of δ.

1822 R Cancri
10 6 Invisible Le M

O Ceti Eye M
10 8 9 3 V

Z100 U Orionis
10 18 Invisible Le M

Friday Oct. 28 1898

T Andromedae

~~v 1~~

10 27 β 1 v 4 m
v 5 γ

Nov. 2 1898 Wednesday.

7085 RT Cygni L M

9 38 η 6 v
v 2 θ
v = 11.

Z Cygni H M

9 43 β 3 v
v 2 γ

R S Cygni

9 46 d 4 v
v 1 e

Wendell calls.

R Cassiop H M

9 52 faint scarcely glimpsed

U Cygni

7299 g 7 v
v 1 h
9 59 v 4-5 k

7783 RU Cygni
β 2 v
10 11 v 4 ε

Nov. 2 1898 Wednesday

10 22 8068 S Sagittae
v = f
v = 10.2

S Aquarii
10 33 8230 Invisible L
bright moon light
near horizon.

o Ceti
10 41 g4v EyE
h3v
v7k

SS Cygni
10 44 f1v L M

T Andromedae
10 50 γ4v
v1=ε
v3d

δ Cephei
10 52 γ2v
v5ξ

Thursday Nov. 3 1898

2100 U Orionis
invisible. Mr H.

10 58 T Camelop
f 2 v Mr Le

clouds.

Friday Nov. 4 1898

o Ceti

10 36 h 7 v Ey Σ.

v 2 k

	T	M
	140.02	130.29
	140.08	130.16
	140.04	130.23
	. 0.3	.1.0
i Cephei	140.3	131.9
δ ..	137.7	133.2
	144.9	133.6
	147.7	131.3
	140.3	132.8
	137.8	133.7
	144.8	133.6
	147.8	131.7
	40.2	40.4
	35.7	32.9
	45.2	29.1
	48.2	37.0
	40.3	39.9
	36.0	30.8
	45.3	28.8
	48.1	37.2

T	M
41.2	43.7
36.2	33.6
43.1	30.9
48.0	38.8
41.2	43.2
35.7	35.9
43.0	30.9
48.4	39.1
41.2	43.3

Nov. 11 1898 Friday

SS Cygni

11 8 civ

v 2 d

a carefully made obs.

Saturday Nov. 12 1898

Watch Δt −14s
[" Δt + 46s]

Time	Star	M	T
9 3 57.4		35.9	47.1
9 4 29.8		36.8	8
6 56.8		35.7	47.6
7 36.0		36.9	68.1
51.0		47.7	47.8
8 12.0		47.7	59.7
41.4		48.8	59.6
9 17.8		35.6	48.2
27.0		36.9	63.9
9 44.9		47.7	47.9
10 8.6		48.2	60.0
19.6		35.9	48.4
37.8		36.9	68.2
55.8		47.7	48.4
11 19.2		48.1	60.1
15 12.2	A	35.9	49.6
28.6	B	36.4	65.3
49.8	C	47.7	49.1
16 21.0	D	48.3	61.2
42.6	A	35.9	49.9
17 4.0	C	47.6	49.2
33.2	D	48.5	61.3
~~18~~ 54.6	B	37.1	65.9
18 31.2	A	36.2	50.2
51.0	C	47.2	49.9
19 13.8	D	48.1	61.9
36.6	B	37.4	66.4
20 31.2	~~A~~ α Andr.	43.9	29.6
21 40.0	~~H~~	41.3	31.5
22 4.2	K	39.9	31.7

Saturday Nov. 12 1898

Time		Star	M	T	Δt
9	22 59.4	L	35.9	35.4	
	23 29.0	α Arietis	43.9	29.95	
	23 51.8	A	41.3	31.8	
	24 19.2	K	39.8	31.9	
	41.4	L	36.4	35.7	
	25 19.4		38.7	41.9	
	40.2		38.3	41.9	
	26 3.4		38.3	42.4	

Mr. Brayton observer

35	15	a	35.9	54.1
	59	c	47.4	52.7
36	33	d	48.5	61.2
37	20	b	37.3	70.7
38	3	a	36.05	54.7
38	35	c	47.4	53.3
39	1	d	48.3	65.3
39	50	b	38.05	71.1
~~40~~	~~36~~			
40	44	c	47.4	53.3
41	13	a	36.53	55.3
42	0	~~b~~d	47.3	66.4
	26	b	38.1	71.7
43	8	x	43.9	33.6
	38	x	43.1	33.7
44	3	x	43.2	33.1
	29	x	43.5	33.6
45	0		43.8	33.7

Saturday Nov. 12 1898

Mr. Lambert Observer

Time	Star	M	T
4 8^M 10	p	23,2	32,3
51 37	a	36.4	57.1
52 20	α Arietis	42.4	32,9
53 4	a	34.8	58.3
54 29	c	46.7	52,2
55 13	β Arietis	40,0	37.2
56 3	"	39.9	38,2
56 35	"	39,9	37,0
57 0	"	41,0	38,8
36	"	40,6	38,8
58 5	"	40,4	39,0
31	"	40,9	38,6
59 42		44,5	33,0
10 0 8		44.1	32,3
34		44,8	32,2
59		45,0	32.6
1 26		44.4	32,5

watch Δt -10^s

[watch Δt $+50$]

Saturday Nov. 12 1898

Time	Star	M	T
10 46 32.0	A	43.3	44.6
57.6	B	41.1	47.1
46 124	A	43.3	44.8
46	B	41.3	47.2
48 6.2		43.3	44.8
29.8	B	41.2	47.5
49 0.2	B;	42.1	463
22.4		42.1	463
462		42.2	46.35
50 6.0		42.2	46.4
	g of o Ceti	25.7	34.2
		25.6	34.2
		25.6	34.2
		25.9	34.2
		25.8	34.3
		25.9	34.5
		25.8	34.5
55 5432		25.5	35.2
56 24.0		25.2	35.15
53.4		25.3	35.2
58 22.0	Aldebaran	40.0	17.1
47.4		39.95	17.4
59 14.0		40.05	17.8
53.0		40.65	17.8
11 0 30.2		42.3	18.1
58.8		39.95	17.95
1 38.6		39.95	18.7

Obs M Reed

Reed observer—

a = γ Pegasi
b = α Pegasi
c = α Andr.
d = β Pegasi
g = α Ceti

Saturday Nov. 12 1898

SS Cygni
4 27 e 1-2 v hm
v 1 d a little cloudy.

Monday Nov. 14 1898

11h 5m 0 watch began

At 8h 12m Δt −0m 2s.5
" 8 42 " −0 3.5

	Sta	M	T	
11 3 34.8	α Geminorum	4.3	27.9	for Mirror Position
4 8.8	"	4.6	28.1	
40.2	"	4.7	28.0	
5 13.6	"			
40.4	Aldebaran	40.8	33.7	
6 19.0		40.8	33.7	
7 33.4	α Orionis (red)	14.7	67.0	
8 31.8	"	14.9	67.1	
56.0	"	14.8	66.95	
9 23.2	"	15.3	67.0	
10 20.6	Capella	41.3	33.85	
53.8	"	41.3	33.95	
13 43.0	Meteor	8.3	69.9??	
19 35.2	"	$\overset{40.3}{43.3}$	$\overset{38.3}{39.1}$	Begin
		37.8	34.6	End
11 50 57		33.2	44.3	I Probably D
		30.9	41.8	II
53 18.		47.9	26.7	I Pos very uncert
		41.7	15.8	II
12 9 31		18.2	18.8	I R. very
12 21 10	No 38	10.3	8.4	II I uncertain
25 45 ~~39~~ No 40	Meteor, outside mirror, a Leonid			
29 30±15 ~~40~~ 41 *	"	"	"	
30 51 ~~41~~.		9.3	16.95	within 1/2°
		21.5	18.9	2 mag

*These corrections made from data held by W.H.P.
Dec. 20 1899 W.M.R.

Tuesday 2 39 Nov 15th 1898. A.M.
2 38 20

12 36 55 No. 48
37 4 49 Off in north wider north star
38 59 51 44.4 55.6 I
44.4 76.8 II

39 54 52

~~42~~ 39 Mars
43 5 " 5.5 44.4
32 " 5.6 44.5
44 7 Pollux 26.0 43.4
30 " 26.05 43.5

47 2 Not recorded

49 54 56 Not recorded

51 35 62 26.4 45.5 I
36.5 50.8 II
~~6~~ Rather bright 2nd mag.

56 4 68 In chart

~~1 0 0 73~~

1 3 10 37.2 66.3 # 2 sd 4th magn
30.6 62.6 1
84
4 57
10.9 64.9

Time N T

1 26 5 W M R observer.

No 1.27a II 43.3 48.3 I

very uncertain 3rd mag. 90.8 33.9

134a 134b 134c

1 3 No 1.38 39.4 I 31.7 II

37.9 29.5

3rd mag. ½ degree deter.

145a 147a 147b 147c(N) 147d(N)

No 149 7.7 I 7.2 II

68.2 66.9

uncertain

152a 156a(L)

1 55 4 1

160a 40.15 33.95

30.2 35.05

4th mag.

162a(L)

1.59.11 Mars 26.9

52.3

2.0.7 27.2

52.4

2.1.2 27.4

52.3

2.3.56 No 169a 40.6 / 20.4 } 32.2 / 9.4 }

very uncertain

2.5.30 174a 21.4 / 67.9 } I 18.5 / 70.9 } II

2nd mag. zero very good.

179a (N)

2.9.32 No 182 43.1 / 32.1 } I 53.1 / 29.1 } II

2½nd mag

2.15.23 No 192 35.2 / 48.0 } I 40.5 / 48.9 } II

3rd mag

---

2 28 55 219a Not Leonid

23 25 227a Not "

2 35 30 229 42.15 / 41.95 } II 35.3 / 43.0 } I Good determ.

2 38 20 chronometer in E balcony, uncorrected, 2h 39m 0s

2 44 10 245 34.1 / 32.7 } I 27.5 / 39.9 } II Good ~~determ.~~

3° mag. N

No I is beginning of path
II " end " "
First is invariably mirror, — thus 12.8 / 74.0 } M / T

Time	No			Remarks	Mag.
2 47 23	253	12.8 74.0 } I	18.05 71.8 } II	Inaccurate	4th mag
2 50 20	254a	Probably L.			
2 54 0	265a			L	
2 55 25	268	38.8 ~~45.9~~ } I 46.2	51.7 44.7 } II	Good! L	Bright as Mars. green
2 58 0		48.8 49.8 }			
58. 45		50.1 39.2 }		Last two groups rep. positions of trail. Others so far as train concerned bad. Trail in form of ring	
3 80 5		51.8 37.2 }			

Mr. Douglas

Time			Remarks
3 11 30	16.95 59.5 } II		Regulus
12 30	17.1 59.6 }		
13 17	42.5 55.4 }		Mars
14 2	42.4 55.5 }		
15 22	37.15 14.3 }		α Ursa Maj.
16 26	37.2 14.3 }		

Nov 15, 1898 A. M.

Time		No	VI			Mag	Remarks
3	17 22	315	45.5 43.3	} I	47.3 41.9 } II	4	L
	20 18	~~319~~ (318 &) yes	32.2 42.2	} I	33.7 40.8 } II	4	Very uncertain L
	22 0	321a					L:
	24 20	329	36.3 45.4	} I	40.4 47.2 } II	5	Very uncertain. N.
3	25 25	330a					L Plotted in atlas, good.
	28 30	338					N " " "
	34 55	351a				3	L To E. Plotted in atlas
	38 25	358	45.95 44.9	} I	47.05 43.2 } II		L Trail 1-2^{s}
	40 20	360a					L
	43 0	362a 362b				4	L Plotted atlas
	44 20	363a					L " "
	45 20	366a				2	L SE horizon
	47 30	369a				4	L Chart.
	51 0	371a					L Plotted atlas
	53 34		29.0 61.4	}			α Leonis
	(54 9^{s}.0)						
	54 9.0		29.5 61.5	}			
	54 57^{s}.8		29.5 61.35	}			
	55 55^{s}.6		40.9 17.7	}			α Ursa Maj.
3							
	56 47^{s}.4		41.5 17.3	}			

Time			No				Mag. Remarks
3	57	38		41.4 17.3			α Ursa Maj.
	59	18		18.3 48.6			ε Leonis
	59	5~~4~~5.0		18.8 48.5			
4	0	26		18.8 48.8			
	1	16.4					
	2	30	396	34.9 20.8 II	30.6 25.0 I	3	4 2 0 chron uncorr. Good. L
	9	23	406	37.9 54.3			Near radiant pt. Very slow. pointed nearly toward ζ Leonis Bright Green. -1 mag.
	12	48	409	44.6 34.9			Bright Green –
	13	26		44.3 33.5			All measurements of trail.
		53		44.6 33.0			
	14	23		44.7 32.2			
		53		44.2 31.5			

Nov 15, 1898. A.M.

Time

Remarks:

15 25 409 43,5 } 30,3

17 25 40,9 } 27,0

18 26 }

Trail form of crescent in line of pointers

20 Track now gone, having been visible till within the last half-minute on β Urs. Maj.

4 22 38 Point & not located.

25 5 426 a (8) Plotted in atlas Probably N

28 45 433 a N atlas

31 20 ~~435 a~~

31 38 435 a N M Reed.

34 10 440 39.05 } 45.8 } I 39.7 } 48.2 } II 3.5 L A

42 15 453 a N Plotted chart

44 20 455 a N atlas, Brayton.

45 30 459 a N " "

45 0 459 b A should have been?

48 15 462 a 2 [atlas.

N (?) 5 of Ursa Maj:

49 20 464 15.9 } 62.7 } II 23.9 } 60.4 } I Add to the Nos 5.4.

2$\overset{1}{0}$.3 2$\overset{9}{8}$.3
62.7 60.4

Nov 15, 1898 A.M.

Time	No			Mag	Remarks
4 58 10	466a			3	L
54 49		36.4 61.6			Regulus
55 59.6		41.9 61.5	+5.4		4
57 0		19.9 56.1			β Leonis
58 10		20.15 57.7			~~α~~
59 0		46.3 22.1			α Ursa Maj;
59 35	475a				L Brayton atlas
59 58					Try again
5 0 18		46.6 21.9			
1 30	475b			5	N Bl
2,0	476	48.4 37.8 I	47.8 40.5 II		N
3 45	479a			5	L Brayton
~~7~~8,0	487a				L Bl P
8 12		26.78 35.7 I	26.75 34.6 II		L

Prof Pickering

5 11 26		46.4 42.8			Regulus
12 12		46.6 64.6			"
13 35		45.7 63.4			"
14 20	500a				L Brayton atlas
14 35		47.15 63.7			Regulus
17 10		26.1 58.5			β Leonis
17 50 /		25.95 58.2			
18 20		47.8 22.1			α Ursa Majoris.
19 34		47.8 22.05			
22 0	511a				N Little earlier Br. {atlas
29 20)	524	33.3 42.5	68.9 63.1	2 1	Obs Bragh not very good

at 5^{ch} 37^{m} $\Delta t = +24^{s}$

Day after Thanksgiving } Friday Nov. 25 1898

West Dome.

M

h m
9 6

SS Cygni
f 2-3 v

H M

T Andromedae

9h10
~~40~~

η 4 v
v 1 ζ

L M

Monday Dec. 5 1898

SS Cygni

j 2 v
v 1 d' W

1623 T Camelop L
d 4 f
f 2 e Selection.
e 5 e'

clouds.

Wed. Dec. 7 1898

1623 T Camelop.

e' 3 p selection of L
p 4 m Comp. Stars.
m 3 q
q 7 q'
q' 4 o
10 40 o 5 δ

Friday Dec. 9 1898

Selection of Comp. stars.
80168 S | Lacertae.

β 3 g
g 6 δ
δ 2·3 β

Le

9 37½ A very bright meteor in Cygnus. Movement slow. Brighter than Venus at its brightest.

Tuesday Dec. 13 1898

S Sagittae

β 6 g — Selection of Comp. *'s — L
g 6 d'
d' 4 b
b 3-4 a — Temp. +4° F.
~~a 4 b~~ — Seeing very poor.
a 5 d
d 3 e
e 4 f — L
~~f 5 h~~
f 3 η — H
η 7 l
l 6 m

η 2 v
10 18 v 5 l

Sequence confirmed by Mr. Wendell

Interval between η & l large but can find no star to divide interval.

Temp. +2.6 F

Friday Dec. 23 1898

~~F~~ ~~R~~ SS Cygni

9 00 j 2 V M H

Var. seen w. difficulty.

Revision of T Camelop. Comparison Stars
w. Mr. Wendell
Inserted e^2 between g and q
g 4 e^2
e^2 3 q

δ Cephei

10 18 ε 1-2 v

Tuesday Jan. 3 189~~8~~9

Tuesday. Jan. 10 1898^{9}

9 18

S S Cygni
a 4 v
b = v
v 3 c

L
Seeing very poor
no clouds.

a is slightly red.
There is no sign of redness about the variable.

A very heavy wind & thermometer 1° above zero make it necessary that the stars should not be exposed to observation for fear of catching cold. I have therefore closed the dome.

Jan. 11 189~~8~~9 Wednesday

SS Cygni Le

9:15 b 4 v
c 1 v
v 1 d

Perhaps var. a trifle greenish.

Thursday Jan. 19 1899

SS Cygni

~~8 9~~

8 53 e6v

f1=v

v6g

v=8.8

2609 T Cephei

8 55 v 2-3 d

S Cephei

8 58 g4v

v=h

R Cassiop

so close to companion

~~tha~~ at its present brightness

9 8 it can not be observed

with 6$^{\underline{in}}$

T Cassiop

9 11 g3v

v3h

S Cassiop

9 13 Invisible

Thursday Jan 19 1899

S Persei

9 16 c4v
v1d

R Lyncis

9 23 too faint

R Ursae Maj

9 25 Invisible

T Ursae Maj

9 28 k5v
v2l

S Ursae Maj

9 30 h3v
v2k

S Boötis

9 32 Var. too faint identification doubtful

R Cameloph

9 34 Invisible
(Identification doubtful)

Thursday Jan 19 1899

U Persei
9 41 m 1 v
v 1 0
~~Va~~ v = 12.

9 45 782 R Arietis
g = v
v 1 h

U Ceti
9 53 ~~too~~ near Moon.

R Trianguli
10 1 0 2 v
v 2 μ

S Tauri
10 6
n 2 v
v 3 0

R ~~Ori~~ Tauri
10 8 invisible

T Camelop
d 1 v
10 14 v 6 e

Thursday Jan 19 1899

10 22 U Orionis

n' 2 v

v 1 q

U Canis Minoris

10 27 v 2 r

U Puppis

10 35 Invisible

Identification doubtful

chart very poor.

R Cancri

10 42 v = k

v = 8.3

V Cancri

10 51 f 4 v

v 2 g

(old see chart

Thursday Jan 19 1899

S Hydrae

10 56 g 5 v
ah 2 v
v 7 k

R Leonis Min

11 2 d 4 v
v = 11.5
Identification a little doubtful.

Friday Jan. 20 1899

East. St. T.
h m

7 0 S Cygni
Invisible

7 2 R S. Cygni
d = v
v 3 e

7 10 U Cygni
d 5 v
v = e
v 3 f

7 18 RU Cygni
d 1 v
v 2 e

7 21 S Sagittae
Invisible

7 25 T Andromedae
Invisible

7 30 R Androm
Invisible

Saturday Jan 21 1899

Meteor Egs

$7^h\ 37^m\ 50^s \pm 5^s$ watch time.

Magn = −2 Redish.

~~Rou~~ Direction Indicated by points:

$\left\{\begin{array}{l}\text{7/10 from } \beta \text{ And. to } \alpha \text{ And} \\ \alpha \text{ Cassiop.}\end{array}\right.$

Watch 11^s slow.

Monday Jan. 23 1899

R Piscium

10 16 l6v m Le

v2m

R Leonis

10 25 x=v

v4y

v=9.5 m Le

~~Thursday~~ Friday Feb. 24 189~~8~~9

J Hydrae
too near Moon

R Leonis
too near Moon

4300 X Virginis
just glimpsed
11.00 too near Moon.

Deichmüller's Var.
~~# 25~~ M 5 V
12 25 v 1 m
v 2 0

M L

Monday Feb. 27 1899

~~40~~ 10:40 R Boötis
Invisible
Moon light too bright.

Miss Cannon has just observed all stars in West. & moon in East effectually cuts off all further observing.
W.M.R.

March 6 Monday 1899

R Leonis Minoris

10:17 Invisible 4

March 8 1899 Wednesday

U Puppis

K 6 l   Li

l 4 m

m 3 o

o 32 q

q 3 R

R 6 S

variable invisible

Monday March 20 1899

M L

8 30 4377 T Virginis
Invisible

8 45 4407 R Corvi
Invisible

8 55 4492 Y Virginis
Invisible

9:20 4521 R Virginis
α 1-2 v
v 5-6 β
~~v = 10.5~~

9:42 4596 U Virginis
f 3 v
v 1 g

Thursday March 30 1899

	4377	T Virginis		4
9 56		Invisible		
	4407	R Corvi	cloudy	4
10 3		Invisible		

Tuesday ~~Mar~~ April 4 1899

9 20 R Geminorum
Invisible Lo

R Cancri
9:30 δ 3 ν H.
ν 3 ε

μ 3 β H
β 7 γ
γ 2 δ
δ 5 ε

f 1 g L
g 3 h
h 3 k
k 6 l
k and l two faint
Comp. stars must be reexamined.

Thursday April 6 1899

— Puppis $8^{h}\,1^{m}$ − 22° 30′ (1855)

Provisional notation

8:30 a 2 V L

V 2 b

V = 8.5

~~R C~~

Selected comp. stars

Mr. Wendell reviewed them

for record on charts.

R Cancri

f 3 g

g 2 h

Monday April 10 1899

— Puppis $8^h\ 3^m\ -22°$

a 5 b h
b 7 c
c 3 d
d 5 e
e 6 f
f 4 g
g 6 h h

b 5 v
7 50 v 2 c
v 8 Richmond.
v = 8.7
f 4 g H
g 7 h
h 5 k
k 2-3 l
l ~~6~~ 3 m.

E.T.
14 10 S S Cygni $21^h\ 39^m\ +43°$
Too faint to estimate. Fainter than l.
Seeing poor.
Colson Obs.

Tuesday April 11 1899

– Puppis 8 3 –22

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

b 4 V L
7 37 V 3 c L
V = 8 Redium.

V = 8.6

S Pyxidis

a α 5 β b
b β 4 γ c
c γ 5 δ d
d δ 2 ξ e
e ξ 4 η f
f η 3 θ g
g θ 5 κ h
h κ 3 λ k
k λ 4 μ l

9 1 h 3-4 V V scarcely glimpses

Tuesday April 11 1899

R Sextantis

a α 6 β b
b β 4 γ c
c γ 2-3 δ d
d δ 5 ζ e
e ζ 5 η f
η 6 θ

γ 3 ν
10 18 δ 1 ν
ν 3 ζ

f η 4 k g
g k 2 θ h
h θ 3 λ k
k λ 4 μ l

13 $\overset{\text{E.T.}}{00}$ S. S. Cygni $21^h\ 39^m$ + 43.0

Star faint, Seeing poor.
Can only see variable at times, and then only by using indirect-vision.

Colson Obs.

Thursday April 13 1899

4847 S Virginis

10 35 v 3 δ 4

Wednesday April 12. 1899.

E.T.

13 50 S. S. Cygni $21^h 39^m$ +43°

var. about the same brightness as Comp. star o

Seeing fairly good at times, for a few seconds only, as storm has just passed, and there is still broken clouds + haze

Colson Obs.

Saturday April 15 1899

S Pyxidis

8^h 0^m

a α 5 β b — cloudy L

b β 4 γ c

c γ 6 δ d

d δ 2 ζ e

e ζ 4 η f ζ 2-3 η

f η 3 θ g

g θ 5 κ h — poor definition. H

h κ 5 λ k — "

k λ 5.6 μ l — " H

14^h 55^m S. S. Cygni 21 39 +43°

Var. still faint. Approx same brightness as o. Too cloudy to get a good estimate.

Colson Obs.

Monday April 17 1899

Deichmüller Var.

n 2 v̲ L

10 18 v 1 o̲

approx. $19^h 27^m$ $+43° 23'$ (1855)

R Leonis Minoris

10 30 Var invisible Lo M

cloudy

β 3 γ L

12 40 S. S. Cygni 21 39 +43.0

Var. fainter than o̲

Tuesday April 18 1899

R Sextantis

Reviewed w. Mr. Wendell

a α 6 β b Cloudy L

b β 6 γ c

c γ 1 δ d

d δ 6 ε e

e ζ 6 η f W

~~η 5 θ~~ H

f η 4 k g

g k 2-3 θ h

~~Thu~~ Friday April 21 1899

γ Hydrae $9^h 46^m - 22^\circ$

Selection of Comp. Stars.

α 6 β
β 7 γ
γ 5 δ
δ 5 ζ
ζ 4 η
η 4 θ
θ 4 ι
θ 6 κ

κ ~~4~~ 2-3 λ
λ 5 μ
μ 4 π
π 2 ρ
ρ 2 φ

Thursday April 27 1899

R Sextantis

Comp. Stars

a α 6 β b L
b β 6 γ c
c γ 1 δ d
d δ 7 ζ e
e ζ 4 η f
f η 3 κ g
g κ = θ h Perhaps θ a trifle > κ

g κ 2 θ h H
h θ 3 λ k
k λ 5 μ l

9 50 γ 2 ν H
δ 1 ν
ν 5 ζ

Saturday April 29 1899

S Pyxidis.

a 4-5 b h
b 5 c
c 6 d
d 5 e X
e 3 f
f 3 g h
g 4 h H
h 5 k
k 6 l

Y Hydrae
α 3 β h
β 5 γ
γ 3 δ
δ 5 ε
ε 2 η
η 5 θ
θ 4 ~~φ~~ ψ
ψ ~~φ~~ 2-3 κ
κ 1-2 ι

omit ~~ι~~ λ
ι 3 μ

μ 6-7 ρ
ρ 2 φ h

Tuesday May 9 1899

SS Cygni
10 36 G 1 V 4
V 2 c seeing poor.

Wednesday May 10 1899

13h43 SS Cygni

c1-2v

v1-2~~A~~d

L

~~S S Cygni~~

Thursday May 11 1899

10 30 S S Cygni L

c 3 v

v 1 = d

Wednesday May 24 1899

W Hydrae

a 6 b M L

h 6 k
k 3-4 l
l 3 m
m 3 n
n 6 o
o 3 p

$9^h\ 10^m$ l 1 v M L
v 1 m

These comp. stars have the following approx. positions (read from chart)

1875.0

	h	m	s	°	′	
a	13	43	17	-28	34	6.5
b	13	47	15	-28	10	7.0
h	13	42	53	-27	33	8.0
k	13	43	52	-27	5	8.0
l	13	43	57	-27	37	8.5
m	13	43	41	-27	41	8.5
n	13	42	~~39~~ 48	~~-27~~ -28	~~33~~ 4	9.0
o	~~13~~	~~42~~	~~8~~	~~-27~~	~~45~~	~~9.0~~
p						

Thursday May 25 1899

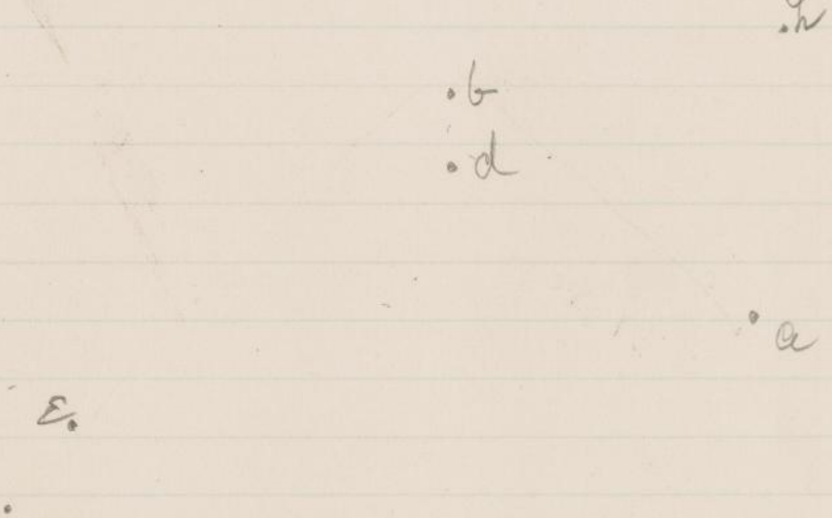
10 20 SS Cygni Invisible LM

Tuesday May 30 1899

W Hydrae

a6b
b5c
c3d
d4e
e5h

Opera glass.



Ordn.
a
b
c
d
e
h
k
l
m
n
o
p

a5b
b5b'
b'2c

α3β
β5a

~~SS~~

Field glasses

Tuesday May 30 1899

S S Cygni

H

9:45 $\gamma\ 3\ \underline{v}$

$v\ 1 = \underline{\delta}$

May 31. 1899 Wednesday

9:10 SS Cygni H.
f 2 v.

June 1 1899 Thursday

~~Sus~~ New Algol Var

10 45 α 4 v

v 3 γ

June 2 Friday 1899

East. St. Time
9^{h} 5^{m} New Algol Var.
α 3-4 V L
V = β abo H.

9 - 10 W Hydrae
α 3 β Field Glass
β 5 a "
a 4 b "
b 4 b′ "
b′ 1 c "
c 3 d "
d 4 ε "
ε 3 h "

d 6 e #L
e 4 h
h 6 k
k 4 l
l 2-3 m
m 4 n
n 4 o
o 3 p
p 2-3 q

10 50 o = v
v 2 p L

New Algol
^{h} ^{m}
12 15 normal L

June 3 1899 Saturday

New Algol

11 20	0.0	β 2 V	11.4			L+
		V 3 δ	10.4	10.9	−0.10	
11 33		γ ~~β~~ 1 V	11.0			
		V 4-5 θ	9.2	10.1	−0.20	
11 37		β 4 V	13.4			
		V 2 δ	11.4	12.4	+0.08	
11 41		~~β~~ = V = ~~β~~ λ				
		V = μ				
49	+0.08	γ 1 V	11.0			
		V 1-2 θ	12.2	11.6	+0.01	
51.5		γ 2 V	12.0			
		V 1 δ	12.4	12.2	+0.07	
56		λ 1 V				
		V 1 μ				
~~12 0~~						
12 0		γ 2 V	12.0			
		V 1 δ	12.4	12.2	+0.07	
12 16	+0.24	θ 1 V	14.7			
		δ 1 V	14.4	14.6	+0.29	
19		λ 2 V				
		μ 1 V				

Saturday June 3 1899

New Algol

12 22		V 1 ξ	17.8		
		V 2-3 η	16.5	17.2	+0.53
25		γ 3 V	13.0		
		V = θ	13.7	13.4	+0.17
37		δ 3 V	16.4		
		V 1 η	18.0	17.2	+0.53
47	+0.47	ξ 1 V	19.8		
		δ 2-3 V	15.9	17.8	+0.62
		V 1 η	18.0		
51		θ 3-4 V	17.2		
		V 1 ξ	17.2	17.2	+0.53
13 10		ξ 2 V	20.8		
		δ 5 V	18.4		
		η 1 = V	19.5	19.5	+0.77
		ξ ~~χ~~ 1 V	19.2		
1544	+0.85	ξ ~~χ~~ 2 V	20.2		
		V 1 π	20.2	20.2	+0.83
32		η 2 V	21.0		
		π 1 V	22.2	21.6	+0.97
40		η 3-4 V	22.5		
		π 2 V			
		V 4 ρ	26.5	24.5	+1.26

Saturday June 3 1899

New Algol

h	m					H
13	44	~~+1.50~~	η 4 V	23.0		
			V 5 ρ	25.5	24.2	1.22
13	46		π 1-2 V	22.7		
			V 2 σ	22.7	22.7	1.07
13	56.5		σ 2 V	26.7		
			V 4 ρ	26.5	26.6	1.43
14	3		σ 2 V	26.7		
			V 3 ρ	27.5	27.1	1.52
14	14	+1.58	σ 3 V	27.7		
			V 3 ρ	27.5	27.6	1.56
14	25		σ 5 V	25.7		
			V 1 ρ	29.5	27.6	1.56
	28		V 2 φ			
			V 1 ρ	29.5	29.5	1.76
	36	+1.90	V 1 ρ	29.5	30.0	1.82
			V 1 φ			

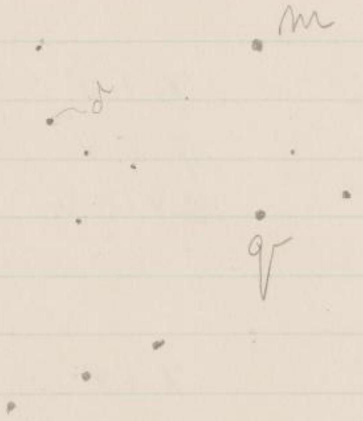
Pier prevented further observations of this var.

at 11h 10m watch 9s fast

" 15 0 " 1s "

Saturday June 3 1899

New Algae


m
d
q

June 17 Saturday 1899

Ceraski's Algol Var

8 53	ρ 4-5 v v = x	H
9 1	x 1 v φ 5 v v 1 = c	H
9 15	x 1 v v 1 c φ 5 v	clouds passing " "
9 20.5	x 1 v ~~v 3 b~~	
9 33.	x = v v 2 c	" "
9 53	ρ 5 v v = x	" "
10 6	x = v v 2 c	" "
11 26	ρ 2 v obs. doubtful. v 3 x " "	" "

June 17 Saturday 1899

Ceraski's Algol Variable.

Monday June 26. 1899

Ceraski's Var.

10 44 $v\ 2\ \sigma$ clouds H

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

10 56 $\sigma\ 2\ v$ clear H

$v\ 2\ \rho$

11 20 $v = \rho$ H

$\sigma\ 4\text{-}5\ v$

12 8 $\rho\ 2\ v$

$v\ 1\ x$

12 36 $\rho\ 2\ v$

$v = x$

13 00 $\rho\ 2\ v$

$v = x$

13 14 stopped by pier

Thursday June 29 1899

5237 R Bootis L
g 1 v
10 31 v 5 h
v = 8.4

5504 S Coronae L
10 34 O 1 v
v 6 p

5511 — Librae
15 15 53 −22 24
Invisible
10 45 m faint stars
Var. must be at least 2 magn. L
fainter than m.

10 56 5607 R Coronae
Too bright for Telescope

R & S Scorpii
11 3 $ both Invisible
w visible

13 53 S Herculis L
O 4 v
v = p

R Ophiuchi
13 58 Invisible
o visible L

Thursday June 29 1899

14^h 5^m 6834 V Aquilae

$\alpha = v$

$\zeta = v$

$v\ 6\ \beta$

Friday June 30 1899

Z Cygni

10 36 β 3 v L
v 1 α
v 4 γ

7120 χ Cygni

10 45
e 4 v Ey E
v 2 f
v = 5.

RT Cygni

11 0 η 2 v L
v 3 θ

RS Cygni

11 3 d 3 v Le
v = e
new notation

U. Cygni

11 10 d 5 v
v = e L
v 5 f

RU Cygni

11 16 d 5 v
v = β
v 6 δ

Friday June 30. 1899

11 25 S Sagittae 4

n = v

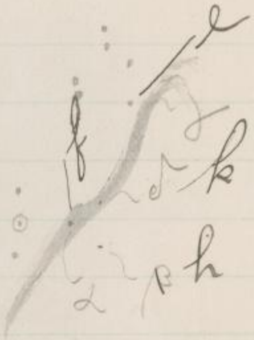
v = 12.

Tuesday July 11 1899
~~S S Cygni~~

S S Cygni

11 24

9.79	f 4	α 4 v
9.78	2 h	v 2 β
9.78	(2 e	v 2 γ)



Mr King

Wednesday
July 12, 1899.

S. S. Cygni

12:50 E.T.

V = L
V 3M

also chart with 8 inch

Mr. Reed. This may interest you.
I would like to ask you a question or two when
you come. E.S.K.

H.R.C

Thursday July 13 1899

8 25 SS Cygni

See sketch on P. 183

δ 3 v k 3 10.73

SS Cygni is evidently growing fainter. It is therefore past max.

Dawn

Friday July 14 1899

11 17 SS Cygni 4

m 4 v

v 2 m

F 14
S 15
Su 16
M 17
T 18
19
20

Tuesday July 18 1899

Deichmüllers Var.
19 26 +43 1855

m 6-7 V M L
9 30 v 3 0
m too bright for comparison w. var.

U Cygni L M
9 50 d 3-4 V
v = e
v 5 f.
Var. Red
e Blue

SS Cygni ~~H~~ M
q-4 v
10 5 v 2 H
Old notation
q normal

T Aquarii
10 18 o 2 v L M

Wednesday ~~June~~ July 26 1899

R Ursae Maj'.

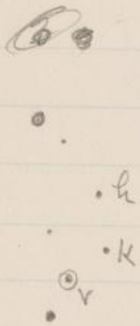
9h 15m g 6 v L C
v 1 h

R Bootis

9 40 m 2 v L C
v 1 m
v 2 o

S Coronae

10 10 p 3-4 v H



R Draconis L

10 43 h 2 v
v 3 k

Thursday July 27 1899

T Ursae Majoris
8 36 v 2 a L

43 S Ursae Majoris
e 2 v
v 7 f

9 15 Le
S Bootis
d 4 v
e 2 v

9 28 R Camelop
h 4 v Lo

9 45 S Cygni
Invisible

T Cephei
k 3 v
10 10 v 2 ~~[illegible]~~ l

S Cephei
10 25 h 2 v

Friday ~~June~~ July 28 1899

~~S Serpentis~~
S Herculis
10 0 v 1 m
v 4 o

U Cygni
10 10
e 2 v
v 3 f

10 20 T Aquarii
v 1 p

RU Cygni
10 35 d 3 v
v 2 β

S Sagittae
faint but can not
10 50 be identified w. certainty
v < f.

R Pegasi
11 1 f 2 v
v 1 h

Friday ~~June~~ July 28 1899

R Cassiop
g 1 ~~k~~ v
11 15 v 1 h
v 5-6 k

T Andromedae
c 4-5 v
11 22 d 1 v
v 6 e

T Cassiop
11 30
m 3 v
v 3 o

R Andromedae
11 35 ~~d 4 v~~ e 4 v
~~v = e~~ v = f
v 5 g

V Aquilae
α = v
11 46 v 3 ζ
v 5-6 β

R Ophiuchi
11 55 l 4 v
v 2 m

Tuesday Aug. 1 1899

U Virginis

9 16 invisible

β visible.

δ Bootis

10 0 e5v

v3f

Aug. 14 1899 Monday

9:18 SS Cygni H.
q 4 v
v 2 π

9:45 R Draconis
l 3-4 v

10:28 / S ~~R~~ Bootis
f 1 v
v 4-5 g

10:50 S Cephei
g = v
v 2 h

Thursday Aug. 17 1899

Bond 294 ~~Dent~~		
10	38	20
	40	30
	42	40
	43	34
		16
		34

Dent ~~Bond~~ ~~294~~			Dent fast
10	39	15.6	55.6
	41	23.6	53.6
	43	33.5	53.5
	44	27.6	53.6
		9.5	53.5
		27.7	53.7

Dent fast of Bond 294
$0^m\ 53^s.6$

	h	m	s	
1st Immersion	8	57	47.8	by Dent.
2d "	9	28	46.	"
1st Emersion	10	29	38.5	"

Corrected times

1st Immersion	8	58	41.4	by Bond 294
2d "	9	29	39.6	"
1st Emersion	10	30	32.1	"

+42.3338

Mr. Colson's chart.

11 20

β 1 v
r 4 L

Friday Aug. 18 1899

S S Cygni

9.6 ~~π 1 v~~

+42.3338
Mr. Colsons chart
β 1 v
9.45 v 4-5 S

Aug 25 Friday 1899

8 55 SS Cygni
v1k
old notation

L M

9 20 RU Cygni
c6v
v2d

9 30 S Sagittae
Invisible
h visible

9 50 R Pegasi
h 3v
v1k

Wednesday Aug. 30 1899

SS Cygni

8 30 v 1 k h

T Ursae Maj

9 12 g 1-2 v h

v 1 h

S Ursae Maj.

v 2 l

10 0 v 2 k

h 6 v

Wednesday Sept. 6 1899

9 40 SS Cygni
h 1 v
v 3 k
Mr. Colson's Chart.

Tuesday Sept. ~~12~~ 12 (?) 1899

9.0 S S Cygni

Invisible ~~or barely~~

~~glimpsed~~

β visible Hazy NL

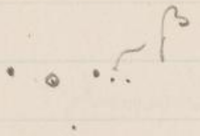
9.15 T Andromedae

S=V approximately

cloudy.

Wednesday Sept. 13 1899

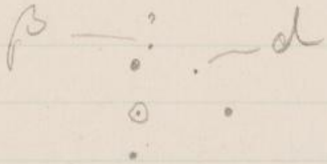
SS Cygni

9.10 

v 1 β cloudy L

Thursday Sept. 14 1899

SS Cygni



9 30 α 4 V H M
V 2 β

9 45 V Aquilae ~~H~~ L M
V 2 α
α 3 ε

R Sagittarii
low near the moon.

10 35 χ Cygni L M
R 2 V
V 2 S

10 40 Σ Cygni L M
Invisible
θ invisible.

10 43 S Cygni
Invisible < 11 mag. L M

10 47 R S Cygni
e 4 V
V = g L M
Sort of these comp. stars

Thursday Sept. 14 1899

U Cygni
10 52 f 1 v M L
v 2 g

T Aquarii
11 0 g 1 v M L
v 4 k

h = g

Sept. 15 1899 Friday.

SS Cygni L M

d 4 v

8 40 v = β See chart on P. 151

— W. H. Pickering used dome —

10:0 T Andromedae

g 3 v

v 1 h L M

astronomical day
East. St. T. *

Wednesday Sept. 20 1899

9^{h} 0^{m} SS Cygni M L
Invisible
d visible see ~~also~~ sketch
on P 151

* This is the time used throughout this record book and also throughout all my record books unless otherwise stated

W. M. Reed.

9 40 T Cassiop. L M
n 5 v

S Cassiop L M
9 44 Invisible
m visible

S Persei
10 7 f ~~g~~ 2 v L M
~~g~~ v 3 ~~f~~ g

Thursday Sept. 21 1899

R Aurigae
8 0 Invisible h visible L M

T Ursae Maj
8 6 h 7 v
v 1 k

S Ursae Maj
8 8 l 4 v

---

clouds

S Bootis
9 13 k 4 v H M
v 1 l

R Camelop
9 22 Invisible <12.2 H M
l visible.

R Draconis
9 50 Invisible <11.0 L M
o visible

Thursday Sept. ~~20~~ 21 1899

10 13 T Cephei 4 m

vif

e5v

Friday Sept. ~~21~~ 22 1899

8 33 S Cephei L M
g 3 v
v 2 h

Clouds

9 0 RU Cygni L M
v 3 d

9 22 S Lacertae L M
η 4 v
v = 12.5

S Aquarii L M
9 30 v 2 h
v 2 g

10 15 R Pegasi
n = v L M
v 5 o hazy

10 30 R Aquarii L M
~~f 1 v~~
f 4 v
v 1 g
v 3 h

10 40 V Ceti L M
v 2 b

Heavy Dew on glass.

Friday Sept. $\overset{22}{2\cancel{1}}$ 1899

10 54 R Cassiop. L. M.

l 3 v	8.46
v = m	8.80
v 3 m	9.10
	26.36
V = 8.78	8.78

Sept. ~~26~~ 27 1899 Wednesday

||
||,

6044 S Herculis
a 3 b H
b 2 c
c 3 d
d 3 e
e 4 f
f 7 g
g 2 h
h 7 k
k 5 l
l 3 m
m 5 n
n 3 o
o 4 p

8 48 e 2 v H
v 4 f

p 2 q H
q 5 r
r 4 s
s 7 t
t 3 u H

α invisible

Thursday Sept. 28 1899

R Bootis

a 3 b L

b 4 c

c 5 d

d 4 e

e 2 f

f 1 g

g too bright to compare with h

h 3 k

k 4 l

l 5 m

m 5 n

n 2 o

o 5 p L

p 3 q H

q 4 R

R 4 S

S 3 t

S 3 V H

V = t

8h 54

V = 12.2 magn.

Thursday Sept. 28 1899

S Herculis
a 6 b L
b 3 ~~2~~ c
c 2 d
d x^2 e
e 6 f
f 7 g
g 2 h
h 5 k
k 3 l
l 3 m
m 6 n
n 3 o
o 6 p L

Le

e 2 v L
8 55 v 1 f

p 2 q H
q 3 R
R 4 S
S 6 t
t 3 u H
6834 V Aquilae
η 3 θ
θ 4 α
α 3 ζ
ζ 4 β

Tuesday Oct. 10 1899

R Boötis
a 5 b
b 4 c
c 5 d
d 5 e

Clouds

9:8 SS Cygni

~~π 5 v~~
p = v
o 5 v

T Andromedae

s 7 t
t 3 u

S is a double star.

a 2 b
b 7 c
c 6 d
d 6 e
e 2 f
f 4 g
g 4 h
h 6 k
k 3 l
l 2 m
m 6 n
n×2 o
o 4 p
p 3 q
q 6 R

Thursday Oct. 19 1899

7 30 SS Cygni M L
Invisible

7 38 S Coronae
Invisible
O visible

8 10 R Scuti M Fieldglass.
e 3 v
v 2 f

a 6 b
b 2 c
c 2 d
d 7 e
e 5 f
f 4 g M L
g 6 h
h 7 k
k = l
l 4 m
m 4 n
n 4 o

T Aquarii *
a 4 b L M
b 3 c
c 5 d
d 3 e
e 3 f

Thurs. Oct. 19 1899

T Aquarii (continued)

f 8 g
g = h
h 3 k
k 4 l
l 5 m
m 4 n
n 6 o
o 1 p

L Ml

9 5

n 1 v
v 2 p
p 5 q
q 3 R
R 3 S

M H

M H

Friday Oct. 20 1899

R Bootis

f 3 g

g 7 h

h 3 k

T Aquarii

+ a 5 b

b 1 c

c 5 d X

d 6 e

e 2 f

f 7 g

g = h

Thursday Oct. 2~~5~~ 6 1899

10 24 7792 SS Cygni L
c 2 v
v 4 d

V Ceti
10 45 Var. invisible L
c visible

R U Cygni
11 55 c 2 v L
v 3 k
Miss Cannons chart

Nov. 2 1899 Thursday

S Bootis
Invisible.

Tuesday Nov. 7 1899

8 5 —

T Cassiop

O 1 V H
V 2 p

n 4 S
S 2 O

S so called on the chart is probably misidentified. It should be the faint star that is north of the so called S.

See Miss Cannon's tracing of the photographic chart for the identification of S.

R S Cygni
a 5 b
b 2 c
c 4 d chart ⓐ
d 3 e
e 4 k
k 2 g
g 3 h
h 4 f
f 2 l
l 4 m
m 6 n
n 5 0

Tuesday Nov. 7 1899

RS Cygni

9 55 e 2-3 v L
k 1 v chart ⓐ
v 2 g

χ Cygni
h 4 k
k 1 l
l 3 m
m 4 n
n 4 o
o 5 p
p 1 q
q 5 R
R 5 S
S 5 t
t 6 u
u 3 w
w 3 x
x 3 y
y 4 z
z 6 α
α 2 β
β 1 γ
γ 7 δ
δ 3 ζ

Wednesday Nov. 15 1899

East. St. T.

h m

10 57 Began to watch for meteors
small openings in clouds, in West
and N.W. no meteors seen.
at times openings extended to the N.E
to within 70° or 80° of the radiant.

11:11 stopped observing at 11:11

11:17 Began again at 11:17
Sky nearly all clear.
no meteors seen either by Prof. E.C.P.
or myself.

11 20 stopped at 11:20

Friday Nov. 24 1899

0 20
4 40

α 20 38
25 20
h.a. 4 42 +44.9

9:30 SS Cygni
~~n 4~~
o 4 v
v 1 p
old notation

U Ceti
c 4 d L
d 5 e
e 7 f
f 2 g
g 4 h
h 8 k
k 3 l
l 6 m
m 3 n
n 2 o
o 3 p
p 4 q
11:0 k 1 v
v 2 l L
q 3 R R seen by glimpses?
R 4 S H
S 3 t
t 5 u H
u seen by glimpses.

Pasted on Bulletin to here

Monday Dec. 4 1899

SS Cygni

9 55 old notation n = V L
V 2-30

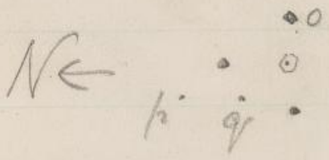
R Aurigae

Var. invisible H

10 20 "$\overset{\text{mags}}{12.8}$" q seen steadily + easily
"13.3" R invisible.

Saturday Nov. 25 1899

SS Cygni
o 4 V
v 2 p old notation



W.M.R. observer.

6
Dec. 5 Wednesday 1899

SS Cygni

Prob. new Not.

8:37 n 5 a V Le

o 2 v

Seen through clouds
difficult to observe.

Friday Dec. 8 1899

S S Cygni

m 4 v H

7 51 v 2 n

v 5 0 New Notation

passing clouds ——

Tuesday Dec. 12 1899

SS Cygni

10 20 0 1 v M H

Friday Dec. 15 1899

25–28 R Geminorum

10 50 o 4 v Le M

β invisible

Var. seen w. diff.

R Cancri

10 54 v = f Le M

v 3 g

[v = 7.5]

V Cancri

11 0 v = m Le M

Identification doubtful

Var. seen w. diff.

v = ~~10.5~~ 11.0

S Hydrae

11 8 e = v Le M

v 4 f

[v = 8.5]

T Hydrae Le M

11 17 h 5 v

v 2 k

v = 9.3

R Leonis Min. Le M

11 27 m 4 v

v 2 n

v = 9.5

Dec. 16 1899 Sat

7 38 watch slow $9.^s5$

17 40 chron. fast $\overset{s}{6.2}$ B & C 1182

Dec. 16 1899.

7 Dis. 8^h 3^m $57^s.8$ (Blind Creighton 1182)

8 Reapp. 8 Not seen W. M. R. obs.
~~Miss Cannon "~~

9 Disap. 8^m 23 18.9 (Reed) Miss Cannon. obs.
" 23 19.1 (Cannon)

9a Not seen.

10 Reapp Not seen

11 Reapp: Not looked for.

12 Reapp 8^h 47 50.7

Comps.
31^s 15^s
B&C Watch
8^h 40 by watch

~~21^s~~ 5
Comp
21^s 5^s
B&C. Watch
at 8^h 57 by watch

9^h 7^m Watch $10^s.9$ slow

B&C.			in Bond 394		
8	5	4.6	9	10^m	0^s
8	6	4.7	9	11	0
8	18	5.0	9	23	0

9 25 Watch $10^s.0$ slow
9 52 7.9 slow

Dec. 16 1899

B & C			B 394		
h	m	s	h	m	s
8	49	41.6	9	54	0
8	50	41.7	9	55	0

Eastⁿ. St. T.

at 7h 40m watch Δt = +0h 0m 9.5s

" 9 7 " " = +0 0 10.9

By interpolation

" 8 40 watch Δt = +0 0 10.5

" 8 57 " Δt = +0 0 10.7

	h m			h	m	s	
"	7 40	B & C	Δt =	+1	4	53.2	by Bond #394
	8 40	"	" =			54.1	by watch corrected for Δt.
	8 57	"	" =			54.7	" " " "
	9 7	"	" =			55.4	by Bond #394
	9 23	"	" =			55.0	" " "
	9 55	"	" =			55.3	" " "
	By interpolation						
	8 8	"	" =	+1	4	53.4	" " "
	8 28	"	" =			53.75	" " "
	8 53	"	" =			54.5	" " "

Burke Reading Bond Reading.

#7 Disap. obs. 7h 3m 57.8s — #9 Disap. obs. 7h 23m 19.1s — 7h 23m 18.9s

Δt. +1 4 53.4 — Δt 1 4 53.75 — 1 4 53.75

Bond #394 8 8 51.2 — Bond #394 8 28 12.85 — 8 28 12.65

10 Reap. obs. 7 47 50.7

Δt. +1 4 54.5

Bond #394 8 52 45.2

Dec. ~~21~~ 20 1899 Wednesday

8:6 S S Cygni L

o 2 v

v 1 p

103 T Androm.

s t 4 v H C

8:20 u 2 v

difficult to observe

Identification doubtful

Thursday Dec. 21 1899

6 55 S S Cygni

o 2 v

v 1 p H

7261 R Delphini

a 3 b L

b * 4 c

c 3 d

d 4 e

e 7 f

f 6 g

g 7 h

h 3 k

k ~~3~~ 4 l

l 3 m H L

m 5 L

L 2 o

o 5 p H

7 35 a b c d e k g h f l m n o

f 2 v L

v 3 g

R S Cygni

a 5 b L

b 3 c

c 3 d

d 4 e

e 6 g

g 2 k

k 2 h

Thursday Dec. 21 1899

RS Cygni
h4f
g4h
f5l
l ~~3~~4 m
m3n
n2-3o

d4v
7:56 v1=e

T Andromedae
a2b b
b7c
c6d
d2e
e5f
f6g
g6h
h2k
k2l
l=m he
~~m5n~~ 4
m4n #
n5o
o4p

Thursday Dec. 21 1899

T Andromedae

~~RS Cygni~~

p 1 q
q 4-5 R
R 2 S
S 5 t
t 3 u

X

H

H

Posted to here

Dec. 28 1899 Thursday

C. St. T.
h m

8:5 SS Cygni
o 3 v
L

8:11 S Ursae Maj
f 3 v
v 1 g
L

8 19 R Camel.
b 5 v
v 2 e

R Ursae Min
8 24 d 3 v
v 2 e
L

8 28 S Cygni
d 6 v
v 1 f
v 2 g

8 31 T Cephei
v 2 d

8 37 S Cephei
u 1-2 v
v 2 f
L

1898phae.pfoj...455R

Dec. 29 Friday 1899

R Trianguli

7:2 ~~p~~ 0 4 v Le
v 4 q
v = 9.4

S S Cygni

7:6 0 3 v Le
v 1 p

RS Cygni

a

a 7 b	a	0
	b	7
b 6 c	c	13
c 3 d	d	16
d 3 e	e	19
e 6 g	g	25
g 1 k	k	26
k 2 h	h	28
h 6 f	f	34
f 3 l	l	37
l 3 m	m	40
m 4 n	n	44
n 2.5 0	o	46.5 ✓

7:30

Saturday Dec. 30 1899

at $6^h\ 40^m$ watch $\Delta t = -1^m\ 9^s$

R Delphini
l 3 m
m 4 d
d 3 o
o 7 p
p 3 q

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

SS Cygni
7 23 o 3 v L
v 1 p
7299 U Cygni
a 3 b
b 3 c
c 5 d
d 5 e
e 5 f
f 4 g
g 5 h
h 3 k

Saturday Dec. 30 1899

U Cygni

5 k 3 l H

l 3 m

m 2 n X

n 3 o

o 3 p

p 2 q

q 5 R

R 3 S

8 9 o 2 v

v 1 p

v = q Red. H

R Gemini.

a 3 b F

b 2 c

c 4 d

d 5 e

e 1 f

f 6 g

g 3 h F

p 6 q g 4 ~~*~~ h L

q 3 R (+22° 44′) h 3 k

p 5 β′ k 4 l

β′ 1 q l 2 m

β″ about = β′ m 5 n

n 2 o

9:47 v [illegible] o 7 p

Saturday Dec. 30 1899

R Leonis

~~g~~ q 3 R L
R 3 S
S 2 t
t 2 u
u 1 W

R 1 V 8.51
10 24 V 2 S 8.45 L
8.48 = Mag. of Var.

2976 V Cancri

α a 3 b β F
β b 4 c a F
a 5 b L
b 6 c
c 2-3 d
d 2 e
e 3 f
f 5 g′
g′ 4 h
h 3 k
k 6 l
l 5 l′
l 3 m
m 3 l′
m 4 n L
n 3 o H
11 26 x
v = o H

is o a double star?

Identification doubtful

1898phae.pkoj..455R

Sat. Dec. 30 1899

S Virginis

a 4 b L
b 3 c
c 7 d
d 5 e
e 3 f
f 2 g
g 6 h
h 1 k
k 5 l
l 4 m
m 3 n
n 2 o
o 2 p
p 3 q L
q 3 R
R 2 S H
R 2 ℓ
~~R~~
S 5 L

14 46 v invisible H

~~1900 Jan 1 1899~~ Monday

1900 Jan. 3 Wednesday

χ Cygni

a 6 b Eye
b 3 c
a 6 d
d 3 e
e 4 f
f 7 g Eye

f 7 g L
g = h
f h 4 k
k 2 l
l 2 m
m 7 n
n 7 o
o 4 p
p 4 q
q 4 R
R 2 S
S 3 t
t 4 u
u 4 w
w 5 x
x 3 y U
y = z H
z 7 α
α 2 β
β 3 γ

1900 Jan. 3 ~~Th. Thurs~~ Wednesday

χ Cygni
γ 3 δ
δ 3 ζ H

v. Muischek
Identification doubtful

7 37 perhaps α 1 v H
v 1 β

T Andromedae
p 2 q l
q 5 R L
R = S H
S 6 t
t 3 u

8 36± u 1 V H
Identification doubtful.

R Geminorum
Mr. Wendell's chart
0 8 α
α 7 β′ L
β′ 1 β² (β″)

9 34 Van Muischek.

Posted to here

1900 Wednesday Jan. 3

9:45

R Leonis
S 3 t

q 2 v 8.42
v 1 R 8.31
v 5 s 8.15
.88
8.29 = Magn. of Var.

Le

1900 Jan 4 Thursday

χ Cygni

a 6 b
b 2 c
c 3 d
d 2 e
e 4 f

Monday Jan. 8 1900

R Delphini

5 30 *

m 6 α
α 4 0 X H

o 2 n (old) X

K = V H
5 50 V 5 l

χ Cygni

a 6 b Eye
b 3 c X
c 5 d
d 2 e
e 5 f.

S S Cygni
8 25 new Notation
c 2 v L
v 1-2 d

V Cygni

a 4 b
b 5 c X
c 7 d
d 4 e
e 6 f

Monday Jan. 8 1900 Posted

V Cygni
f 4 g Le
g 3 4 h
h 3 k X
k 2 l
l 7 m
m 3 n Le

V Invisible Le Me
8 55 p visible.

R Geminorum
9:18 V Invisible Le Me
p'' Visible

Posted to here

Tuesday Jan. 9 1900

SS Cygni

h m
8 20 c 2 v
v 1 d M L

Clouds.

9 5 T Cephei
v 6 d ✓ L M

Clouds
R Leonis

9 35 8.32 p 3 v L M
8.01 v 2 q
8.16 = Magn. of Var.

Wednesday Jan. 10 1900

5:46 SS Cygni
New Notation
d 1 v
v 4 e
M L

S Cygni ✓
8 20 e 1-2 v
v 3 f

S Cephei
8 29 d = v ✓
v 3 e

R Cassiop.
8 41 u 3 v
v 2 w ✓ M H
[v = 12.6]

W and Var. seen by glimpses.

8 48 T Cassiop M L
g 2 v
v 2 h ✓

S Cassiop ✓
9 10 be difficult to identify. g 5 ~~h~~ v

Wednesday Jan 10 1900 ~~189~~

9 22 R Leonis

O 6 v 8.27

v = p 8.02

v 4 q 7.81

10

8.03 = Magn. of Var.

MW

Tuesday Jan. 16 1900

SS Cygni
9 25 Invisible M L
g visible New Notation.
Very bright moon light + near the horizon.

S Persei
9:37 e 2 α v ✓ M L
f 2 v
v 4 g

T Persei
9 41 e 1 v ✓
v 9 d

R Lyncis
9 52 Invisible ✓
k visible

R Ursae Maj.
9 55 Invisible ✓
p visible

T Ursae Maj
9 58 Invisible ✓
l visible

10 10 R Leonis
m 1 v 7.33
v 1 m 7.37 M L
v 3 o 7.37 7.36

Friday Jan. 19 th 1900

7 44 SS Cygni
O 3 v New Notation H
v 1 p

S Ursae Maj H
e 2 f
7 53 f 4 g ✗

7 58 R Camelop. L
b 1 v ✓

R Ursae Minoris
8 5 Flag pole in the way
cuts off one half of light.

T Andromedae
8 13 Invisible L
le visible

8 28 R Andromedae
p 4 v L
v 1 R
v 6 S
Levot of q q on chart is much
brighter than p.
chart (a)

8 36 R Piscium L
o 1 v
v 3 x' old Not.

Friday Jan 19 1900

R Leonis

8 50 m 1-2 v 7.38 L

v = m 7.47 7.42

Observation interrupted by clouds before it was finished -

posted to here.

Monday Jan. 22 ~~1899~~ 1900

R Leonis

10 4

m=v	7.23	
v 1 n	7.37	W
v 3 0	7.37	
	.97	
	7.32	

Saturday Jan. 27 1900

7:45 R Aurigae
Invisible Le
q visible

U Orionis
v = p Le
8 13 v 2 q
chart ⓐ

Puppis
8 24± $8^{h}\ 3^{m}$ − 22° 38 1900
b 1 v
v 1 c
chart / Apr. 7

R Cancri
g 3 h
~~8 28±~~ h > l
l 3 k′
k′ 5-6 m

l 2-3 v
8 36 V Cancri Le
Var. Invisible
8 58 n visible ⓐ

S Hydrae
9 2 k 3 v
v 1 l
v = 9.5

Posted to here.

Saturday Jan 27 1900

T Hydrae
~~a 4 x v~~
~~v x 1 c~~
9 8 a 4 v
v 1 b Le

R Sextantis
9 20 η = v Le
v 4 θ

R Leonis Min.
δ = v
9 25 v 1-2 β L

δ seems > β.
Scale these stars up.

R Leonis
9 40 k 3 v 6.92
v 1 m 7.13
v 2 n 7.27
l 5 v 7.38
28.70
7.17

Monday Jan 29 1900

893 U Ceti

9 0 Invisible L
R visible
hazy.

906 R Trianguli

9 7 η 1 v
λ 2-3 v
v = 8.2

1279 U Camelop

e 3 v
9 22 v = d L
v 4 e ⓐ
~~a~~

1577 R Tauri

9 28 Invisible L
S visible.

1582 S Tauri

p 4 v L
9 31 v 1 q

a 4-5 b
b 1 c φ Invisible.
c 5 d
d 2 e
~~d~~ e 2 f
f 3 g

Posted to here

Monday Jan 29 1900

R & S Tauri

g 5 h
h 2 k
k 7 l
l 6 m
m 1 n
n 2 o
o 2 p
p 5 q
q 3 R

9 58 1623 T Camelop
a 2 v
v 5 b ⓐ hr

R Draconis
10 8 v 1 e
v 4 f ✓

Posted

~~Wednesday~~ Thursday Feb 1 1900

9 47 R Camelop
a 5 v
v 4 b L

9 53 R Leonis
l 1 v
v 3 m L

1279 U Camelop
9 58 c 5 v
v = d ⓐ L
v 3 e

1572 R Tauri
a 5 b
b 1 c
a 3 d X
g 2 h
d l 7 m
m 1 n

~~R~~ R [illegible]
~~S~~
S Tauri
10 24 ~~a~~ p 4 v
v = q Le

Poster

Saturday Feb. 3 1900

R Camelop
8 56 a 5 v
v 3 b L

9 8 2946 R Cancri
v 2 k' ⓐ L
Make a new chart
+ observe sequence.

R Leonis
9 34 l 1 v
v 4 m L

R Ursae Min
9 44 Invisible ⓐ L
Identification a trifle doubtful
if visible

R Sextantis
9 52 d 2 v
v 3 y

Posted

Feb:6 Tuesday 1900

Observed several occultations
see Miss Cannon's book of this date.

10 31 R Leonis Le M
k5v
v=l
v6m

10 36 R Camelop. Le M
a6v
v6b

Pos X 00

Tuesday Feb. 13 1900

cleared off about 10 P.M.

10 20 R Camelop ✓ Le M
V 3 b

R Leonis
V 1 K

10 30 full moon a few degrees Le M
from variable.

Posted

Wednesday Feb. 14 1900

watch $\Delta t + 33^s$

R Camelop — Le
cloudy

R Leonis — Le
cloudy + M too bright.

Posted.

Thursday Feb. 15 1900

9 54 R. Camelop.
v 4 b l v m L

9 58 R Leonis
v = k
v 4 l m L

10 15 R Ursae Maj
var. invisible v m L
p visible.

Tuesday Feb. 20 1900

Posted

10 20 watch $\Delta t = -16^s$

10 36 R Camelop L
v 4 b

R Leonis L
11 0 v = k
v 4 l

Posted

Feb. 27 1900 Tuesday

10 20 R Camelop. v 2 b ✓ L

R Leonis
L 1 = v
10 35 v 3 K L

Friday March 2 1900

Posted.

10 22 R Camelop. ✓ L
b = v

10 27 R Leonis L
v 3 h

Posted

Thursday March 8 1900

R Leonis

10 25 v 3 h Mr Le

By Mr Colson
on March 17 1900

S S Cygni
h 4 v
v 3 c

R Camelop.

10 40 b 3 v ✓ Le Mr
v 6 c

April 3 1900 Tuesday

Posted-

2100 U Orionis L
8 55 d 4 v
e 1 v
v 2 f

U Geminorum L
9 15 m 1 v
c 2-1 v

Posted.

June 4 1900 Monday

9 38 3493 R Leonis
h = v ✓ LeM
k = v
v 5 l
v = 7.
Seen through clouds

T Virginis
10 9 Invisible ✓ LeM
clouds.

5770 R Herculis
K 6 v
10 18 v 2 l ✓ Le
v = 8.5

R Scorpii
10 25 Invisible ✓ H
u visible

S Scorpii ✓ H
10 30 s 2 v
v 2 t
v = 11.

5889 U Herculis
Invisible ✓ Le
10 45 p visible

June 5 1900 Tuesday

Posted

4492 Y Virginis
10 12 Invisible ✓ Le M
d visible

4521 R Virginis
10 25 K1v ✓ Le M
v2l
v=8.5

4596 U Virginis
f2-3v
10 33 v1g ✓ Le M
v=7.5

4816 V Virginis
Invisible ✓ Le M
10 42 m visible

4805 W Virginis
10 45 K3v ✓ Le M
v4l

Saturday June 9 1900

R Ursae Maj
10 20 $g=v v7h ✓ Le M
T Ursae Maj ✓
10 40 K6v v2l Le M
S Ursae Maj ✓
10 43 Invisible Invisible
S. Bootis ✓
11 0 $ s6v
R Camelop
11 8 Invisible < 11 mag
S Cygni ✓
11 20 Invisible < 11 mag
T Cephei
11 25 v5d ✓
S Cephei
11 35 g2v ✓
b2h
SS Cygni
11 37 v=π v=11 mag
R Cassiop
11 45 Om2v v6p v=8.8 ✓
T Cassiop
d7v ✓
11 52 v1e
v3f v=7.4
S Cassiop
11 56 v6k ✓
S Persei ✓
12 4 d1v v1e
T Persei ✓
12 7 c5v v2d

Saturday ~~We~~ June 9 1900

V Aquilae

12 35 α = v 2 b ✓ Le Mu

R Sagittarii

12 47 c 2 v 3 d ✓

R Delphini.

13 5 q 7 v ✓

13 20 T Delphini

Invisible g visible (see chart)

13 23 T Aquarii ✓

φ 2 v chart ① v = 11 mag.

13 33 R Vulpeculae ✓

ρ 2 v 6 ε L

13 45 R Pegasi

η 1 v v = 11. ✓ L

14 0 R Andromedae

ρ 4 v v 8 σ H

α 6 γ ✓

ρ 2 β H

β 7 σ

14 14 U Persei ✓

c = v 4 d L

R Arietis

14 20 v 3 f ✓ Le

v = 8.5

14 28 U Camelop ✓

v 1 ξ v = e L

14 33 R Draconis

Invisible < 10.5 L

Sunday June 10 1900

~~8 20~~
~~1~~
~~3 28~~
~~11 49~~

15 27.5
2 2
13 38 30

Sunday June 10 1900

T Camelop

8 59 Invisible f invisible cloudy. L M

R Aurigae

9 18 Seen with difficulty. v = g cloudy L M

T Virginis

10 7 Seeing difficult on account of bright ☽ K 2 v v 2 l L M ✓

Friday June 15 1900

X Virginis

9 5 —

H

β 2 v

v 1 y

v

V = 11