KG
11365
544

KG 11365.544

a. J. Cannon

KG11365.544

HARVARD
UNIVERSITY
LIBRARY
MAY 8 1956

Friday, April 20, 1900

7 45 U Orionis
e 2 v
v 4 g ✓

7 50 R Trianguli 906

α' 4 v ✓
v 2-3 β'

8 00 T Cass 107
f 2 v
v 2 g ✓

R Cass.
Too low.

8 20 S Cass
h 3 v ✓
v 3 k

S Persei
8 25 f 1 v ✓
v 3 g

April 20. 1900

8 28 T Persei
C 4 v ✓
v 2 d

8 30 R Aurigae H
k 1 v ✓
v 3 l

8 37 R Lyncis
p 3 v
v = q ✓ H

8 40 S Urs. Maj. 4557
k 3 v ✓
v 1 l

8 45 T Urs. Maj.
d 3 v ✓
v 2 l

8 55 S Bootis ✓
c 1 v
v 3 d

Posted

April 20. 1910

9 08 R Camelop
f 2 v ✓
v 2 g

9 03 R Urs. Min.
v = e ✓
v 4 d

9 10 R Draconis
m 1 v
v 2-3 n ✓
.f
.v
h .m ?
.h
Look up m
all right.

9 15 T Cephei
g 3 v ✓
v 2 k

9 20 S Cephei
f 2 v ✓
v 2 ~~k~~ g

Tuesday, April 24. 1900

7 35 U Orionis

l 3 v ✓

v 3-4 f

7 45 R Can. Venat. 4948

m 3 v /

v = n

7 55 S Virginis 4847

t 3 v ✓

u not seen H.

v very faint

8 10 R Bootis 5237

s 3 v ✓ H

v 1 t

April 24. 1900

8 20 S Serpentis 5501

R 4 v ✓ H

ft. star foll. v. & n.
is not seen

8 30 S Coronae 5504

✓

v 5 g "f" too far away.

~~T~~

8 33 U ~~T~~ Coronae

✓

v 3 g

8 40 R Coronae
v 5-6 f 5667 ✓

old chart - marked
(Irregular).

Posted

April 24. 1900.

8 50 R Serpentis 5677

v ~~n. s.~~ invisible ✓ H

φ seen

Chart ①

9 00 V Coronae 5675

γ 2 v

v 2 δ ✓

these letters are from Mr. Reed's plotted chart marked ①

9 05 RU Cygni 7783

δ 3 v ✓

v = ε

9 25 U Cygni 7299

$\overset{e}{\cancel{\delta}}$ 4 v ✓ H

v = f v very red.

Wednesday April 25, 1900

8 20 R Cygni 7045 ✓

k 2 v
v 2 k

8 30 R Leonis (Opera glass) ✓

v = e
v 4 f

8 40 T Cancri 2976 ✓

l 2 v
v 3 d'

8 50 R Cancri 2946

δ 3 v ✓ H
– v 1 ε

9 15 S Hydrae H ✓

o 2 v

star p not on Hagen's chart.
Ident doubtful so not used

(variable identified from Hagen's chart)

Posted.

April 25, 1900.

9 25 T Hydrae
m 2 v ✓
v 0-1 n

9 30 R T Cygni
v = ζ ✓
v 3 θ

9 40 SS Cygni.
Still too low for obs.

9 45 Z Cygni 7192
v = θ H
μ not seen

Posted

Thursday, April 27, 1900

9.05 ~~3825~~ R Urs. Maj. 3825

v 2 g ✓ Clouds near, but the field of view seems perfectly clear.

Sky too cloudy to continue

Tuesday, May 1, 1900

7 50 U Orionis
e 2 v ✓
v 3 f (my chart)

8 05 T Cass.
e 1 v ✓
v 4 f v very red and hard to compare

8 10 S Cass
h 3 v ✓ l > k
v ~~4~~ 3 l l, k

8 12 S Persei 793
v = f ✓
v 4 g

8 15 T Persei
c 3 v ✓ 814
v 1 d

Posted

May 1, 1900.

8 20 R Aurigae
g 2 v H
~~v 2 h~~ ✓
v 0-1 h

8 30 R Lyncis
f 1 v
v 2 g H ✓

8 35 R Urs. Maj. ✓
v 2 g
f not on chart

8 50 S Urs. Maj. 4557
l 3 v
v 1 m ✓

9 00 T Urs. Maj. 4511
l 2 v ✓
v 2 f.

Monday, May 7, 1900

8 05 S Boötis M

c 2 v

v 2-3 f ✓

8 25 R Camelop.

v 2 l ✓

k seems to be
a double.

S.T. = 11h 45m

Tel = E 3h 10m

R A = 14h 25m 25

Setting Dec = 85°

8 35 S^{R} Urs. Minoris

c 2 v

v 1 l ✓

Posted.

May 7. 1900

8 45 R Draconis
o 1 v ✓
v 3 p

8 50 T Cephei
k 2 v 7609'
v 1 l

h > g ✓

9 00 S Cephei
f 2 v ✓
v 2 g

very red

Monday, Sept. 24, 1900.

7.15 SS Cygni

→ f 2 v
v 1 g (old notation) i.

7 20 T Cass 107 ✓
h 2 v
v = k

7 35 S Cass 432 H
ε 3 v ✓
s not seen

7 40 T Persei 793
b 4 v ✓
v 1 c

7 41 S Persei 814 ✓
c 4 v
v = d

Sept. 24, 1900

7 50 R Aurigae 1855

c 5 v
v = f.

8 00 R Urs. Maj. 3825
r 2 v
v 2 s H

~~7~~ 8 05 S Urs. Maj. 4557

e 1 v
v 3-4 f

~~7~~ 8 10 T Urs. Maj. 4511

v invis.
p distinctly seen H

~~7~~ 8 30 S Bootis 5157
g 1 v
v 3 m H

8 35 R Camelop 5190
c 2 v v 4 d

Posted

Sept 24, 1900

8 40 R Urs. Min.
d 2 v ✓
v 2 e

8 44 R Draconis.
v 2 l
d not on chart.

Posted.

Tuesday Sept. 25, 1900

8 10 S S Cygni
β 3 v
v 1 γ
(old notation)
L.

8 25 Cloudy around pole

Set Declination circle same as decl. of star, when east.

9 30 R Cass ✓
l 2 v
v 3 m

9 35 S Cephei
not seen ✓
O glimpsed

9 45 T Cephei ✓
f 3-4 v
v 2 g

9 55 S Cygni ✓
Suivis.
m seen clearly

Wednesday, Sept. 26. 1900

7.40 R Lyncis ✓
d, v
v 2 e field very low
Est. 8^m ~~vis~~ and misty.

7 45 T Androm. ✓
not seen.
c' seen. = t in focal
notation chart ⓐ

8.05 R Androm.
e 3 v ✓
v 1-2 f
Est. 8^m

8 15 U Persei
k 3 v ✓
v 1 l Est = 11^m

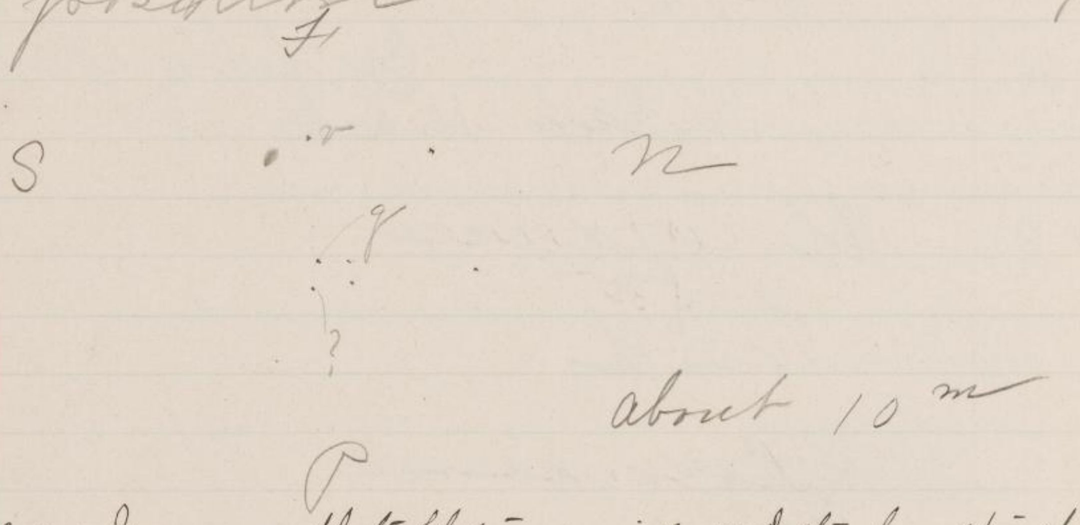
R Arietis ✓
8 30 v 3 β
v = 11^m.5

Find comp star α.

Sept. 26, 1900.

8 35 R Arietis

Star not on chart and not before observed is seen in the field in the following position



Sept. 27, 1900. Numerous phot. plates examined and the above star appears on all with no appearance of variation.

8 56 R Trianguli

μ 3 v
v 1 0

✓

Chart ⓐ

Est = 10.5

9 U Camelop 1279

c 1 v
v 2-3 d

✓

9 18 T Camelop

l 5 v

✓

no fainter stars on chart ⓐ

Est = 10.5

Posted

Thursday, Sept. 27, 1900

7.30 S Cephei ✓

m 2 v #
v 1 n

Carefully identified
Est. 11.5

7 40 U Coronae ✓
j 3 | v
v 2 | h

8 S Coronae
var. invis. ✓
p seen.

Star "p" may possibly be the variable. They are so close that I can not ~~de~~ tell from the chart I have. Star observed as p is 3 grades fainter than o. Seeing poor.

8 05 R Coronae
Clouds Est = 8

Too cloudy to cont.

Tuesday, Oct. 2, 1900

7 25 SS Cygni
v = γ
r.
v 3 δ (old not.) est = 11.5

7 30 Clouds.

Posted.

Thursday Oct. 4, 1900

7 40 SS Cygni M
Invis.
γ barely seen. #. L.

7 46 RU Cygni ✓

v = d
v 3 β est = 8^m

8 30 Z Cygni 7192

~~α 1 v~~
~~v 2 α 3 β~~ wrong comp. stars ✓
α
~~β~~ 3 v
v 0-1 ~~α~~ γ est = 10.5

χ Cygni
Lost near moon.

8 50 T Cass ✓

k 3 v
v 1 l est = 9.5
seeing very poor

Monday, Oct. 15, 1900

6 50 SS Cygni
v = γ L. H
v 3 δ (old not.)
est. 12^m

7 S Cephei H
m 4 v
~~v 1~~ ✓
n 1 v Est. 11^m
v 2 0

7 10 R Cass. –
l 5 v
v 1 m Est. 9^m

7 15 T Cass
l 3 v
v 1 m Est. 10^m ✓

7 30 S Cass ✓
v invis.
u seen

7 35 S Persei
c 1 v Est 8^m
v 2 d

Oct. 15, 1900

7 40 T Persei
b 3 v   Est. 8m ✓
v = c

7 45 R Aurigae
f 3 v
v 2 g   Est. 8.5 ✓

8 25 S Urs. Maj.
d 4 v
v 1 e   Est = 8m ✓

8 30 T Urs. Maj
k 3 v
v 1 l   Est. 10.5 ✓

8 35 S Bootis
f 2 v
v 1 g   est = 10m ✓

8 38 R Camelop
b 1 v*   8 ✓
v 4 c   est = 7.5

Oct. 15, 1900 Posted.

8 45 R Urs. Min.
v = d
v 3 e est = 9m ✓

8 47 R Draconis ✓
v 1 c
est = 7.5

8.55 S Cygni
v invis. H ✓
0 seen

9 T Cephei ✓
f 2 v
v 2 g est = 8

9 25 S Ceti 114
v invis. ✓
0 seen chart (a)

9 35 R Piscium 513
f 3 v ✓
v 2 g (a)
est = 8.5

Friday, Oct. 19. 1900

7 20 R Lyncis

e 3 v ✓
v 2 f est = 8.5

7 35 R Urs. Maj.

v = t H ✓
v = 12.5

Very poor chart of ft. stars. Comp. star "k" appears in position of var. when seen with low power.

7 55 R Andromedae

c 2 v ✓
v 1 d Finder. c is too far off to compare in telescope

Est = 7.5

New photographic chart used and is excellent

Oct. 19. 1900 Posted.

8 10 R Arietis

~~f4~~ g3 v
v 1 h est = 9 ✓

Br. star near.
Set dec. cir. at 25°

8 20 U Camelop Ⓐ
c 1 v
v 3 d ✓

v very red.
est = 8

T Camelop

9 30

g 2 v ✓ Ⓐ
v 2 h Est = 9

"h" is g on old chart.
It is bet. v + f.

9 45 T Androm.
Faves. H ✓
c'' (= t new notation) seen
Chart Ⓐ

Posted.

Oct. 19. 1900.

8
~~9~~ 48 S S Cygni

L.

γ 2 v
v 1 δ (old not.)
Est = 12

9 15 X Cygni 7.1.20

✓

f 2 v
v 1 y
Est = 11m

9 20 R S Cygni

✓

e 4 v
v 2 k
marked k on chart but pict. is star f. Fork ap.
est = 8m

R T Cygni
Too cloudy to estimate

Saturday, Oct. 20, 1900

U Persei ✓

7 30 l 2 v
v 1 m
H
est = 11^m

7 45 R Coronae ✓
Too bright to comp. with any comp. star in telescope. In finder, it is fainter than three bright stars south
Est = 7.5
Look up bright comp. stars

8 RT Cygni 7085 ✓

δ 2 v
v 2 ε
est = 8.5

8 05 T Aquarii 7468 ✓

e 3 v
no "f" on chart
Est = 8.5

Oct. 20, 1900.

8 25 R Vulpec.

v invis ✓

η seen.

Star of 10.m near position of var. is assumed to be comp. star m, since it is slightly fainter than l, and is in position of for m

8 35 U ~~X~~ Cygni 7299

Ⓐ ✓

e 2 v

v 3 f est = 8.5

8 45. V Cygni 7428 ✓

n 3 v

v 1 o est = 11^m

9 RU Cygni 7783

Ⓐ ✓

d 3 v

v 2 β est = 8.5

Oct. 20, 1900. Posted

SS Cygni

9 05 δ 1 v (old note) ✓

v = 12:5

9 15 Z Cygni ✓

β 4 v

v 1 α est = 10

Monday, Oct. 22, 1900.

7 25 R Herculis 5770

v since

0 seen H ✓ ⓐ

R Serpentis

too low

V Coronae

too low.

8 U Herculis 5889

p 3 v H ✓

q too far ff in light portion.

Est = 10.m

8 15 S Herculis 6044

o 1 v

v 2 p H ✓

Est = 11.m5

Oct. 22, 1900

8 25 R Delphini 7261

m 1 v est = 11m ✓
r 3 n

~~8~~ 8 40 T Delphini ✓

Star seen may be v, or may be comp. star f. It is four grades fainter than d. Look up.

Est = 11m

Oct. 23. Looked up on I 11368. Star obs. was prob. "f", and v is invisible

8 50 T Capricorni

h 1 v ✓
v 2 k est = 10m

9 SS Cygni

f 3 v α.
v = δ Est = 12.5

Posted.

Oct. 22, 1900

9 10 R Pegasi 8290
v = η ✓
Est = 11^m

9 20 R Aquarii 8572 ✓
l 2 v
v 1 m est = 10^m

9 30 V Ceti 8597 ✓
Invisible
α seen (or b)

Tuesday Oct. 23, 1900

S Cass. 167

7 25

n 2 v ✓

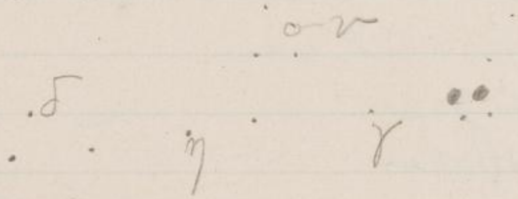
v 2 0 H

Est = 11^m

7 45 R Trianguli ✓

γ 3 v

v 2 δ Est = 10^m



8. R Sagittarii ✓

v invis. H

t seen

8 02 S Sagittarii H ✓

v 2 β est = 11.5

chart Ⓑ

8 15 R Scuti ✓

Est = 7^m

a 6 or 7 v

a is in red ink

Oct. 23. 1900.

8 20 S Persei
c 3 v
v 2 d
✓
Est = 8.5

8 22 T Persei
b 3 v
v 1 c ✓
Est = 8

8 30 R Aurigae
v = g ✓
v 4 h
Est = 9.5

8 35 R Lyncis
~~g 1 v~~
~~v 2 f~~
~~Est = 9.5~~
e 4 v ✓
v 1 f
Est = 9

Posted.

Oct. 23. 1900

8 55 S Cygni L. H
v = 8 n
v 30 (new notation)
Est = 11.5

9 20 Probably just beginning to rise

U Ceti H ✓
v invis.
t seen

9 30 R Tauri H ✓
v = 9/r
v 3/r
comp stars too far off to be certain of estimate
est = 12.5

9 45 S Tauri ✓
Invis. H
s seen

Wednesday, Oct. 2~~5~~4, 1900

7 10 S Sagittae 8068

ⓐ ✓

v 3 m

Est = 11.5 H

m is marked on drawing at bottom of chart.

7 25 S Urs. Maj.

e 1 v ✓
v 4 f est = 9 m

7 30 T Urs. Maj. ✓

g 2 v
v 1 h Est = 10

7 35 S Bootis

f 1-2 v ✓
v. 4 g Est = 10

Oct. 24, 1900.

7 45 R Camelop

v 1 b ✓ est = 8.5

a is too bright to est. the diff. in grades.

7 48 R Urs. Min.

c 2 v ✓
v 1-2 d est = 9.5

7 52. R Draconis
b 2 v
v 1 c ✓ est = 7.5

no red color is seen in variable.

8 05 R Cass
v = m
v 4 n est = 9

l 6 m l is very much brighter than m

Portl. Oct. 24, 1900.

8 15 S Cygni
v invis.
p seen. — H

8 20 T Cephei
e 1 v
v 4 f ✓ est = ~~8~~ 7.5

8 30 S Cephei H
m 3 v
v 1 n ✓ est = 12

S S Cygni
ⓐ
8 45 p 3 v H L
v = g (old not.)
est = 10~~[illegible]~~

9 00 X Cygni J
x 8 v
v 1 y est = 11

Posted

Monday Oct. 29. 1900.

6.05 S S Cygni
Badly seen. H L
v, f 1 est = 12

~~R Cass.~~

Friday, Nov. 2, 1900

7 40 R Cass. M.
r 1 m
red tinge to v.
l is too bright to compare
est = 9m

7 50 T Cass H
n 4 v
v = 0 est = 11.5

7 55 S Persei
c 1 v
v 4 d est = 8m

7 58 T Persei
b 3 v
v = c est = 8m

8 02 R Aurigae H
g 3 v
v 1 h
est = 9
slightly red

Nov 2, 1900.

8 10 R Lyncis
f 2 v
v 1 g est = 9

8 15 R Urs. Maj. S L
v minus
f seen

8 30 S Urs. Maj.

e 3 v
v 2 f est = 8 ~~H~~

8 32 T Urs. Maj.

e 3 v
v = f est = 8^m

comp. stars "e" is same for both stars "f" is different

8 37 S S Cygni H
g 3 v
v = 5 est = 12.5

Posted Nov 2. 1900.

8 40 S Bootis
region too low to make a careful estimate.

8 45 R Camelop
v 1 b est = ~~7~~ 8.5

8 47 R Urs. Min

v = d
v 4 e est = 9

8 50 R Draconis
v 0-1 c est = 7.5

9 T Cephei
e 1 v
v 4 f est = 8

Tuesday, Nov. 6, 1900 Posted

7 30 SS Cygni M

L.P.

~~d~~ c 2 v

v 2-3 ~~m~~ ~~b~~ e d (~~old mark~~)

est = 8.5

7 35 R Cass

n 1 v Cop.

v - 30 est = 10

8 R Andromedae

v 1 d ✓

est = 7.5

8 05 R Camelop

a v 2 b est = 8

Cop.

8 10 R Draconis

c 2 v

Cop.

est = 8

8 15 T Cephei Cop.

c 2 v

v 3 f est = 8

Saturday, Nov. 10, 1900

7.25 T Andromedae

v = d H ✓

est = 13^m

Seeing excellent

7 35 SS Cygni

~~d~~ c 1 v C

v 2 d

7 55 X Cygni 7120

α 1 v ✓

v 2 β H

carefully identified

8 R Androm. ✓

v = d

7.5

obs. diff. Almost on meridian

Nov. 10, 1900. Posted.

8 20 R Pegasi

~~η' 1~~ η 1 v ✓

v 1-2 η'

est = 12^m

8 30 S Cygni

v invis c

0 seen

8 35 S Cephei

v 1 m

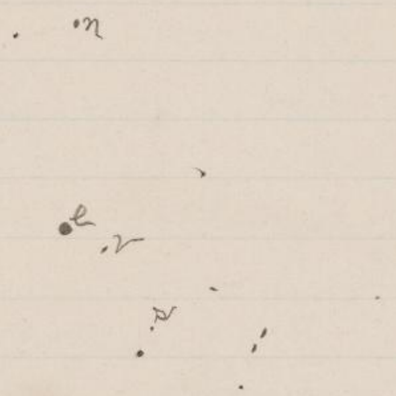
H c

Seeing very poor.

est = 12

Monday, Nov. 12. 1900

T Cass



H

c

est = 17

7 55 v = 0

Inquire about fs.

There is no good chart of the faint stars.

8 S Persei
c 2 v
v 3 d
est = 8
c

8 03 T Persei
b 3 v
v = e
est = 8
c

8 10 R Aurigae
b 2 v
v 2 m
est = 9
H

Nov. 12. 1900.

8 15 R Lyncis
g 2 v
v 2 h c est = 9.5

Stars in Urs. Maj. too low

8 18 S Bootis
e 3 v
v 2 f c est = 9

8 21 R Camelop.
v 2-3 b est = 8 c
a too bright.

8 25 R Urs. Min.
d 1 v
v 2 e c est = 9

8 28 R Draconis
c 2 v est = 8 c

8 35 S S Cygni
c ~~b~~ 3 v d
v 2 f c est = 8.5

Posted

Nov 12, 1900

8 40. S Ceti

m 2 v ✓

v 1 n est = 11

8 45 T Aquarii ✓

h 2 v

v 4 k est = 9.5

9 R S Cygni ✓

$l \overset{4}{8} v$

v = k est = 8.5

k 1 g

g 3 h

h 1 f

f 4-5 l

9 20 R Arietis

d 3 v

v 3 e ✓

Wednesday, Nov. 14, 1900

7.40 T Andromedae 103

t 2 v
v 2 u (final ~~new~~ notation)
est = 12.5.
Used Hagen's chart, Excellent.
Seeing fine

7 55 S S Cygni

d f 2 v
v 2 e est = 9

8 05 R Aquarii

c 3 v
v 2 d
est = 7.5
v red,

8 30 R Delphini

p 2 v
v 1 q est = 12.5

Nov. 14, 1900.

8 35 RT Cygni

η 4 v H ✓

v 2 0 est = 10.5

8 40 Z Cygni ✓

v 3 f

α two near bright stars

est = 9.5

8 45 U Cygni

e 3 v

v 1 f ✓ v very red

est = 9

9 05 V Cygni H ✓

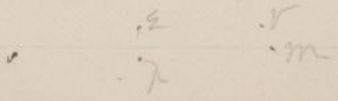
n 3 v

v 1 0 est = 11

9 20 R Vulpeculae H ✓

λ 3 v

v = ε est = 12.5



Posted to here

Thursday, Nov. 15, 1900

9 15 S S Cygni ✓

d 4 v

v = e est = 9

Posted.

Wednesday, Nov. 21, 1900

8 00 S S Cygni

L. P.

$p\,2\,v$
$v\,1\,q$

(old not)
est = 10^m

8 03 Clouds.

Friday, Nov. 23, 1900

7 25 T Androm. H ✓
s 1 v
v 2 t est = 12.5

U Persei

7 35 v = m ✓
v 4 n H
Ident. from Hagen
est = 11

7 40 R Piscium
h 3 v
v 3 k est = 9 ✓

7 50 R Triang.
ε 4 v ✓
v 2 β est = 8

7 55 U Camelop.
c 1 v
v 3 d est = 8 ✓

Foster

Nov 23, 1900

8 05 SS Cygni

β 1 v ✓ H
v 3 γ est = 12

8 08 T Camelop

f 3 v ✓
v = g est = 9

8 30 R Tauri

H ✓
s 2 v
t invis. est = 13

8 38 S Tauri

✓
Invis H
s seen

9 00 U Orionis
invis
t glimpsed ✓

Posted

Wednesday, Nov. 28. 1900

R Androm.

5 30 c 1 v
v 5 f est = 9 ✓

R Camelop ✓

5 40 b 3 v
v 2 c est = 9.5

Saturday, Dec 8, 1900

7.20 R Delphini M
v nvis. ✓ and haze
n glimpsed H

Seeing very poor

7 35 X Cygni
v not seen
p seen
field seen bet. clouds.

7 40 T Cephei ✓
d 2 v
v 2 e est = 8.5

7 50 R Draconis ✓
g 2 v
v 3 h est = 9.5

field very hazy.

8 00 R Urs. Min ✓
d 4 v
v = e

Dec. 8, 1900

8 10 R Camelop ✓
b 4 v
v 1 c est = 9

8 15 R Geminorum
Too near moon

8 20 U Ceti ✓
k 3 v
v 1 l est = 10
Clouds

8 45 U Camelop 1279
c 3 v ✓
v = d est = 8.5

8 50 T Camelop ✓
g 1 v
v 2 h est = 9

chall-a

Posted.

Dec, 8, 1902

9 ✓ R Cass. # ✓

p 4 v

v = 9 est = 10.5

obs. diff.

S S Cygni #

9 23 ✓

v = 5

Both stars glimpsed
at intervals

Sunday, Dec. 9, 1900

5 50 T Urs. Maj. ✓
v = e
v 2 f est = 8.5

5.55 S Urs. Maj.
H ✓
b 3 v
v 1 m est = 11

6 05 T Aquarii
✓
o 3 v
v 2 p H est = 10

6 30 R Vulpec.
f 3 v ✓
v 1 g est = 9.5

R Pegasi
6 45± θ 1 v H ✓
v 2 μ est = 12

Dec. 9. 1900.

7 00 R Aquarii ✓

c 2 v

v 4 d est = 8

7 05 S Persei ✓

a 4 v

v 2 b est = 8

7 08 T Persei ✓

d 2 v

v 1 e est = 9

7 30 R Aurigae H

v = 9 est = 13 ✓

7 45 R Lyncis ✓ H

m 2 v

v 2 n est = 11

k is very faint about equal to m

Is k variable?

Dec. 9, 1902. Posted.

748 R Urs. Maj. ✓

v invis.

p seen

Monday Dec. 10, 1900

7 35 S Bootis ✓

c 3 v
v 2 d

Field very low. Stars ill-defined

est = 9

7 55 S Cygni ✓

k 2 v
v 2 l est = 11

obs. very difficult
Highest power used to separate v from d.

7 58 S Cephei ✓

g 1 v
v 3 h est = 10

RS Cygni Dec. 10, 1900

8.10 e 3 v
v 4 f
✓
est = 9
k > f, or h or g.

8-15 U Cygni
✓
e 3 v
v 1 f
est = 9

8 20 V Cygni
✓
n 2 v
v 1 0
est = 12

8.23 cloud

8 35 S Ceti
✓
v = k
v 3 l
cloud near.
est = 10

Posted.

Dec. 10, 1900

8
~~7~~ 45 T Cass # ✓
q 2 v
v not seen est = 13

8 48 T Androm
clouds.

Posted

Wednesday, Dec, 12, 1900

5 30 R Androm. ✓

f 3 v
v 3 g est = 9

5 40 T Androm. H ✓

v = b
v 3 c est = 11.

ⓐ

5 50 S Cass

Invis. ✓
s seen ——

7 40 R Piscium ✓

n 2 v
v 3 o est = 10

Stars seen clearly but clouds are dangerously near.

Clouds ——

8. 40 R Tauri ✓

Invis.
0 seen

8 42 S Tauri ✓

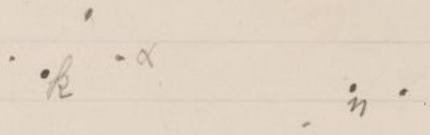
Invis. 0 seen

Thermom. +13°
at 7.15

Friday, Dec. 14, 1900

$\overset{5}{7}$ 25 S Aquarii
v invis
g seen √

5 45 S Pegasi
v 3 α (provis. $\overset{H}{\text{notation}}$].
est = 13ᵐ √



Drawing made from Hagen's chart,

6 10 R Ceti √
d 3 v
v 2 e est = 8.5
var. identified from Hagen's chart, as it is not marked on other chart.

7 50 U Orionis √
v = t
est = 13 or less

Dec. 14, 1900.

8 20 R Geminorum ✓
p 2 v
v 3 q   est = 12^m

8 35 S Canis min. ✓
var. glimpsed
est = 13^m
Have no chart of fnt. comp. stars.

8 38 R Cancri
15 m. Dome in way.

9 15 R Leonis min ✓
m 2 v
v 2 n   est = 9.5

9 35 V Cancri
n, v (old chart)
est = 12.5 ✓

~~[illegible]~~
Identif. uncertain

Posted

Thermom +10°
at 10

Dec 14, 1900

9 45 R Cancri ✓

g 2 v

v 2.3 h est = 9

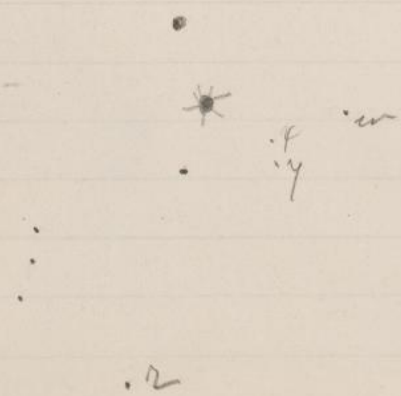
Sunday, Dec. 16. 1900

5 25 R Arietis ✓
¢ d 2 v
v 3 e est = 8.5

5 35. W Herculis ✓
v = e
v 2-3 d est = 9

5 45 T Herculis ✓
v invis +
f seen

6 R Cygni + ✓
v invis
sky very clear & black



two faint stars x & y seen distinctly, they are est. as 13 or less. Drawing made from Hagen's Chart

Posted

Dec. 16, 1900.

6 15 o Ceti J

α 2 v

v 4 β est = 8

6 30 S S Cygni + c

δ 1 v

v = < 13

Tuesday, Dec, 18, 1900

5.15 U S & R Herculis looked for, but they are too low to be seen

R S Cygni
est. of comp. stars e – l

l 3–4 k
k 2 g
g 1–2 h
h 1–2 f
f 3 l

Note. ~~A~~ All the observations during 1900 are Ledgered.

Ledgered

Tuesday, Jan. 22, 1901

5 40 R Delphini

Field too light. no stars seen

5 45 T Aquarii
Field too low for obs. now

5 55 R Aquarii

d 4 v
v 1 e est = 9

6 15 S Aquarii
invis 14
g seen

6 30 R Pegasi
v invis. 14
y seen

6 40 S Pegasi
k 3 v
v 1 e est = 11

Jan. 22, 1901

7.00 SS Cygni ++
j 2 v Ledgered
v = d est = 12.5

7.05 X Cygni
Too low.

7.10 RS Cygni
d 2 v ⓐ
v 2 e est = 8.5

7.15 S Cygni
v = m
est = 12
obs. diff. on account of star d,
also only seen by indirect vision

7.20 U Cygni ⓐ
k 1 v
v 3 l est = 10.5

7.40 V Cygni
v = f est = 12.5

Ledgered to here.

Posted,

Jan. 22, 1901

7 55 T Androm.

ε 1 v

v 1-2 δ est = 9

8 R Androm.

m 3 v

v 1 n est = 10

8 07 S Ceti

d 4 v

v 1 e est = 9.5

Seeing very poor

8 17 R Piscium

v = ε

est = 13^m

8 20 R Arietis +

β 2 v

v 1 γ est = 11

Frost troublesome.

Thursday, Jan. 24, 1901

7 15 R Cygni
v invis.
w seen

# See drawing on p. 71
x + y not seen
w is probably 11.5 or 12

7 16 χ Cygni
too low.

7 20 R Ceti
k 3 v
v 1 l est = ~~+0~~ 9

o Ceti
7 30 δ 2 v
v 3 ε est = 8.5

U Ceti
7 50 v = d
v # e est = 7.5

Ledgered
Posted

Jan. 24, 1901

8 10 S Tauri
S ∤ 3 n H
m is too far off
est = 10

R Tauri
8 12 Invis.
p seen
Clouds formed on region during observations

8 45 R & S Tauri. re-observed
Sky clear
Low power
S Tauri
m 3 v
v 2 n est = 10

8 48 R Tauri
v invis.
ft. star near R seen
s seen.

9 U Orionis
v seen < q Clouds
came before obs. was made

Ledgered
Plotted.

Friday, Jan. 25, 1901

7 50 U Orionis
q p 3 v
v 1 r est = 12

8 R Geminorum
var. thought to be glimpsed.
s seen distinctly
t seen at times, variable
fainter than t.

t 2 v est = 13

8 25 S Canis min.

x 3 v est = 12.
see rough drawing of ft. stars
on chart

R Cancri
8 30 o 3 v
v = p est = 11

V Cancri
Clouds.

Saturday, Jan. 26, 1901

7,30 2976 V ~~U~~ Cancri m
v 3 f (chart b)
Look up comp. stars
est = 9.5

740 S Hydrae
·m 3 v
v = n est = 11

750 R Leonis minoris
v 2 s
est = 12 ⓐ
carefully identified by Hagen

R Leonis
Behind East Dome

~~7~~ 8 05 R Cass
~~s 2 v~~
v 2 t est = 12 H
diff. on account of nearness of comp. star t. to v

Jan. 26, 1901

8 10 T Cass
n 3 v
v 2 0 est = 10.5

8 25 S Cass
Invis.
g seen.

8 28 S Cephei
f 3 v
v 1 g est = 10

8 33 T Cephei
v 5 d
est = 6.5

8 45 R Draconis
n 1 v
v 2 0 est = 11

9 ~~U~~ ~~Urs.~~ R Urs. Min.
d 4 v
v = e est = 9

Jan 26, 1901

9 10 R Camelop.
h 2 v
v 3 k
H
Seeing poor, moon near
est = 11

9.18 ? S Boötis
d 3 v
v 1-2 e
est = 9

9 20 S Urs. Maj.
~~Lunis~~
~~[illegible]~~
n 3 v
v 10
est = 12

9 25 T Urs. Maj
h 4 v
v 1 k
est = 9

9 30 R Urs Maj
p 2 v
v 1 q
est = 10

Ledgered
Posted.
Plotted (cir.)

Jan. 26, 1901

9
8 48 R Lyncis
p 2 v
v 3 q est = 12

k 4 v
l 3 m
Compare former record
when k < m

9 50 R Aurigae
Invis.
p seen

9 52 S Persei
v 1 a
est = 7.5

T Persei
Clouds formed before obs.
could be made.

Ledgered
Posted.

Tuesday, Jan 29, 1901

M

5.57 S S Cygni
v not seen
l X seen

6 12 X Cygni
Field too low and sky too bright to see any of the faint stars so as to identify field.

6 15 R Vulpec.
v not seen
m faintly seen

8 40 T T Hydrae

v 1 n Seeing exceedingly poor. Moon + haze

9 Clouds
9 40 R Leonis
h 2 v
v 4 k est = 7

Jan. 29, 1901

950 R Comae
Too cloudy

952 R Can. Ven
Too cloudy.

Saturday Feb. 2, 1901

M

6 45 SS Cygni
c ~~b~~ 3 v
v 1 ~~b~~ d (~~old mt~~)
est = 8,5

6 50 R S Cygni
C 3 v
v 2 d est = 8
v very red

U Cygni ⓐ
6 55 g 3 v
v 1 h est = 9

7 00 V Cygni
v not seen
n seen

7 15 S Pegasi
v not seen
n seen.
Region hazy.

Posted.
Ledgered.

Feb. 2, 1901

7 20 T Androm.

Chart (a)

c (γ) 4 v
v 1 d (ε) est = 8.5

7 30 R Androm.

n 2 v
v 1 o est = 9

7 55 R ~~Arietis~~ Piscium √ 7-3

v not seen
o seen

Moon too bright to see faint stars in the ~~east~~ south

When tel. is west, set dec. circle 30' less than dec. of star for +25° or less.

8 10 T Cephei

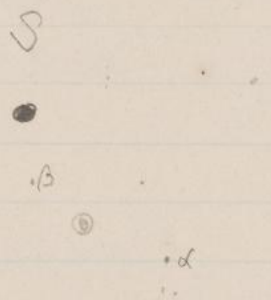
v very bright, can not be compared in grades with any L. ~~[illegible]~~ on chart. It is about a magnitude brighter than d. est = 6.5

~~Fr~~ Thursday, Feb 7, 1901

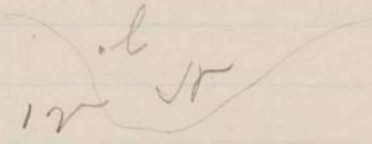
6.50 SS Cygni
c ~~b~~ 3 v
v 1 d   est = 8.5

R Arietis
Ident. by Hagen's chart

7.20



Drawing from Hagen's.



α 1 v
v 2 β   est = 12.5

7.35 R Piscium

ε 5 v

est = 13
v seen only by looking steadily for a long time
Carefully identified by Hagen

Feb. 7, 1901.

~~8~~7 45 o Ceti
γ 4 v
v 1 δ est = 8.2
red color of v very
noticeable!

~~8~~7 50 R Ceti
l 2 v
v 1 m est = 9.5

~~8~~7 55 U Ceti
v 3 e est = 8.
~~d not included.~~
d 3 v

8 10 ST auri
m 1 v
v 3 n est = 9.5

R T auri.

8 20 v thought to be glimpsed
but as I can not find Hagen's
chart I am not sure of the
identification

See p. 92.

Posted
Ledgered.

Feb. 7, 1901

8
~~7~~ 30 U Orionis

r 2 v
v 1 s est = 12
obs. difficult.

8
~~7~~ 35 R Geminorum
v invis.
s seen.

Friday, Feb. 8, 1901

6 55 S S Cygni
& d 1 v
v 3 e est = 9

7 05 S Ceti
d 3 v
v 2 e est = 8.5

7 25 S Canis Min.
e 4 v
no "m" on chart est = 10

7 30 R Cancri
o 2 v
v 1 p est = 11

7 45 V Cancri
v 1 f
e marked on chart is too
bright to compare with
took up sequence
Chart (b)
est = 8.5

Feb. 8, 1901.

8 00 S Hydrae
k 1 v
v 1 l est = 10

8 25 T Hydrae
β 3 v
γ not clearly seen.
est = 12

Hagen's chart used.

8 40 R Leonis Min.
δ 2 v
est = 12,5
Hagen's chart used for iden.
δ marked in chart ⓐ

8 50 R Leonis
v 1 h est = 7

Feb, 8, 1901

Ledg.
Post.

X Virg.
behind east dome

9 05 R Urs. Maj.
m 2 v
v 2 n est = 9

9 08 S Urs. Maj.
n 0-1 v
v 3 o est = 12

9 10 T Urs. Maj.
k 4 v
v 2 l est = 10

9 15 R Canum Venat.
v = g
v 3 h est = 9

9 25 R Comae
v invis.
β seen

Monday, Feb. 11, 1901

7 20 SS Cygni
d 4 v
v 1 e est = 9½

7 30 S Cygni
v invis. H
o seen.

R Lyncis
7 45 H
g 1 v
v 3 r est = 12.5
r is on extreme limit of visibility to-night.

7 50 T Cephei
v 5 d
est = 6½

7 55 S Cephei
e 2 v
v 2 f est = 9
var. deep red

Febr. 11, 1901.

810 R. Cass.
t 5 v
obs. very diff
w not seen
v only seen by long
steady gazing

812 T Cass.
n 2 v
v 3 0 est = 10

820 S Cass.
v invis.
s seen

830 S Persei
v 2 a est = 7

832 T Persei
c 4 v
v 2 d est = 8 1/2

Ledgered
Posted.

Feb. 11, 1901.

8 40 R Aurigae
v invis.   H
g seen.

8 43 δ Bootis
e 5 v
g v = f   est = 9

9 05 R Camelop
v invisible   H
x l seen.
Region hazy.

9 07 R Urs. Min
d 3 v
v 2 e   est = 9

R Draconis   H
v invis
9 15 o seen.   Seeing poor

Monday, Feb. 18, 1901

7 55 SS Cygni +
γ, t
δ not seen est = 12

8 R Cygni
v invis.
n seen Field very low.

X 8 15 T Androm.
c 3 v
v = d est = 8

Tel. set on stars in Virgo.
X, R & T Virg. All are
behind the East ~~D~~ Dome

8 20 S Tauri
~~x~~ o 2 v
v = p est = 10

Ledgered

Posted

Feb. 18, 1901

8 35 R Tauri
v mins
u seen

8 50 R Cancri
v = m est = 12

9 07 X Virg
l, v
v 3 m est = 11

9 10 T Virg
Too low.

Friday, Feb. 22, 1901 Post Zed.

Nova in Perseus

8 30 Brighter than α Tauri, bet α Orionis and α Tauri, and a little nearer α Tauri

α Orionis 3 Nova
Nova 2 α Tauri

1.22
.86
2)2.08
1.04

Sky hazy.

Obs. uncertain as clouds seem to be shifting continually.

9 Sky clear in region of Nova. Nova decidedly brighter than α Tauri, and very nearly equal to α Orionis.

α Orionis 1-2 Nova
0.66 Nova 4 α Tauri

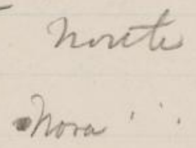
1.07
0.66
2)1.73
0.86

Both α Orionis and α Tauri appear much redder than Nova, which is whitish in color.

1900phae.proj..545Q

Feb. 22, 1901.

9 30 Nova in 6 in telescope, to identify faint stars near field. Too hazy to see much near the Nova. A small triangle seen



11.25 Very clear sky in region.

Nova quite white in color.

Capella 6 Nova 0.81
α Orionis 2 Nova 0.72
Nova 5 α Tauri 0.56

$$3\,\overline{)\,2.09}$$

0.70

Feb. 23, 1901

Led.
Rat.

6 10 Nova Persei

Sky cloudy, Nova and Capella seen between clouds. Nova seems brighter than Capella, but the seeing is so poor, I can not tell for sure. She thought about ≥ brighter
L.C.

Feb. 24, 1901

6 35 Nova Persei

Capella 2 Nova 0.41
0.62 Nova 3 α Orionis 0.62
2) 1.03
0.51

7 35 Capella 2-3 Nova 0.46
Nova 2 α Orionis 0.72
2) 1.18
0.59

Moon is between Nova and α Orionis so that the comparison is difficult.

8 Capella 2 Nova 0.41
Nova 3 α Orionis 0.62
2) 1.03
0.51

8 30 Nova bluish in color, it appears decidedly blue when looked at immediately after looking at Capella.

Capella 2 Nova 0.41
Nova 2 α Orionis. 0.72
2) 1.13
0.56

Feb. 24, 1901 Posted
Ledgered

Nova Persei

9 Capella 2 nova 0.41
Nova 1 α Orionis 0.82
2)1.23
0.61

The Nova is nearer the moon than Capella

9 30 Capella 2-3 Nova 0.46
Nova 1 α Orionis 0.82
Nova 3 β Orionis 0.04
3)1.32
0.44

Stars shielded from moon when obs. was made

Monday, Feb. 25, 1901

Led; Post

M

Nova Persei

7 18 Capella 6 Nova

The moon is too near α Tauri to compare the Nova with it.

8 Clouds

9.15 Capella 7 Nova
Clear in this region, but cloudy in region of Orion + Taurus

10.45 α Orionis 4 Nova
Nova 2 α Geminorum

Obs. at 273 Upland Road

L.P.

Tuesday, Feb. 26, 1901

M

8 25 Nova Persei
α Tauri 2, Nova 1.26
Nova 2 α Geminorum 1.38
2)2.64
1.32

Clearing up

8 28 R Virginis
Behind East Dome

8 32 R Bootis
Cloudy, field too low.

8 40 T Cass
K5v
v i l est = 10

10.10 α Tauri 2-3 Nova 1.31
Nova 2 α Gem. 1.38
1.34

α Tauri and Nova are now about same distance from horizon and that comparison seems good. α Gem. is too high.

Made this Obs. at 273 Upland Road

Wednesday, Feb. 27, 1901

JM

8 20 Nova Persei

L

Nova $\overset{1}{\neq}$ α Persei
Nova 3 γ Cassiopeiae

The nova appears slightly yellowish in color.

8 50 S Cephei
e 1 v
v 2 f est = 9½ ✓

8 57 T Cephei
v 5 d est = 6½ ✓

9 05 S & Bootis

h 3 v
v 1 k est = 11 ✓

Feb. 27, 1901

9 10 S Persei
a 1 v
v 3 b est = 7 ✓

9 15 T Persei
c 3 v
v 0-1 d est = 9

9 35 R Urs. Maj.
g 2 v
v 2 h est = 8

9 38 S Urs. Maj.
h 3 v
v 1 k est = 10 ✓

9 48 T Urs. Maj.
v invis
m seen ✓

9-50 T. S Virginis
v invis.
m seen ✓

Feb. 27, 1901.

10 S Virg ✓
f nf
b 2 g est = 9½

10 05 R Virg
v nf ✓
p seen

10 20 U Virg
k 2 v
v = l est = 10

10 25 V Virg ✓
v nf
n seen

10 30 W Virg
v 4 nf est = 10

10 35 R Bootis ✓
f 1 v
v 2 g est = 9

Feb. 27, 1901

Led. Post.
Plot.

1040 S Virg ✓
v invis
n seen

1045 S Coronae ✓
e 3 v
ns f on chart

1048 R Coronae ✓
v 5 f

1055 W Herculis
v = β est = 12 High Power ✓

Thursday, Feb. 28, 1901

8 10 Nova Persei Led.
α Tauri 5 Nova Post.
Nova 1-2 α Persei

Nova is much yellower than α Persei.

Friday March 1, 1901

Nova Persei

Lid Post.

10.45 Polaris 3-4 Nova

Nova = β Persei.

Nova 0-1 γ Cass.

γ Cass. is low and the region hazy, but I have used this comp. lest β Persei be varying to-night.

~~Tuesday~~ Wednesday March 6, 1901

7 50 Nova Persei
ε Persei 1-2 Nova
Nova 0-1 δ Persei.

8 10
~~7 55~~ T Androm
Too low

8 15 R Androm
s 1 v #
est = 12

8 20 R Pisc
Too low

8 30 R Arietis 1+
v min
γ & β seen

o Ceti
Too low

M up

8 40 S Tauri #
0 2 v
v 1 p est = 11.5

March 6, 1901. Post.

8 45 R Tauri Ledgerwood

v miss. +

q seen seeing poor.

Thursday, March 7, 1901

7 30 Nova Persei
ι Aurigae 1 Nova
Nova 0-1 ε Persei.

Nova reddish

8 U Orionis
Can not identify as my chart of faint stars is removed from my list, and I can not find Hagen's Chart.

8 10 S. Can Min
g 2 v
v 1 h est = 10.5

8 25 R Cancri
β 5 v
v 1 β est = 11

8 30 V Cancri
d 3 v
v 1 e est = 8.5

g > f Is g right m

March 7, 1901

8 34 S Hydrae
h 1-2 v
v 2 k

8 35 T Hydrae
v invis (High)
n seen

8 45 R Leonis
h 1 v
est = 7
The two stars differ greatly in color. v very red

8 50 T Cephei
v 4 d est = 6

8 55 S Cephei
d 3 v
v 1 e est = 9

8 58 S Persei
a 1 v
v 4 b est = 7.5

Led. Bost.
9 05

March 7, 1901

τ Persei

c 3 v
v 1 d   est = ~~8~~ 8

v does not look red
as it used to.

Tuesday, March 12, 1901

7 40 Nova Persei

δ Persei 2-3 Nova ✓
Nova 4-5 κ Persei

8 – R Cass
v invis.
t seen

8 10 T Cass.
k h 2 v
v 1 k est = 9

8 20 S Cass
v invis.
s seen

8 30 S Cygni
v invis.
k seen Field low

8 40 R Aurigae
v invis.
q seen

Ledgered
Posted

March 12, 1901

9.15 R Lyncis
p 3 v
v 1 g est = 12,5

9 20 R Urs. Maj
g ~~2~~1 v
v 4 h est = 8

9 25 S Urs. Maj
f ~~g~~ 3 v
v 1 g est = 9

Thursday, March 14, 1901

Led. Plot.
Posted.

10.30 Nova Persei.
δ Persei + Nova
Nova 5-6 η Persei.

The interval between δ and η Persei is rather large.

Posted. Sunday, March 17, 1901

8.35 Nova Persei Ledgered Plotted

Nova = η Persei

Clouds very near.

Tuesday, March 19, 1901 L.P.

7 40 Nova Persei

Field glass

32 (l) Persei 1 Nova
Nova 5 30 Persei

Nova is very red in field glass

8 U Orionis
var. not distinctly separated from comp. star q (Θ) ✓
Chart Ⓒ
Observation difficult.

q 3 v
v = 12 est = 12^m

U Orionis probably not observed, but by error of identification ~~the~~ a faint double star between +20° 1173 and 1178 was obs. for var. and q.
A. J. C. Apr. 27, 1901

8 28 R Geminorum ✓
v min.
t seen.

Clouds east & north

Friday, March 22, 1901

7 43 Nova Persei, L.P.
v Persei 4 Nova
Nova 1 l Persei

Clouds forming very rapidly over region.

Posted Wednesday, March 27, 1901

Nova Persei Ledgered

Plotted

9 30 v Persei 2 Nova

Nova 5 l Persei

Saturday, Mch. 30, 1901

LM

7 25 Nova Persei

naked eye.

ζ Persei 2 Nova ✓
Nova 3–4 l Persei

Nova yellowish but not especially different in color from ν Persei.

7 30 T Urs. Maj.
v invis.
m seen

Seeing poor

7 45 S Bootis
v invis.
k seen.

7 50 R Camelop.
v invis.
h seen

8 00 R Urs. Min
d 3 v
v 1 l

Mch 30, 1901

8 15 R Draconis
v. mins
0 seen
#

Hagen's chart
0 not marked on Hagen but
identified from faint 'slur'
marked on back of old chart.

8 25 X Virg.
Too near moon,
field too bright to see var.

8 40 R Comae
v mins
l seen

8 50 # T Virg
v mins
k seen

9 15 R Can. Ven.

p. 2 v.
v 1 g est = 10.5

March 30, 1901

9 20 R Bootis
c 2 v
d not on chart
est = 7

9 30 S Serpentis
v invis.
l seen.

9 33 S Coronae
e 3 v
f not on chart
est = 7.5

9 37 R Coronae
v too bright to compare
with f, the brightest
comp. star on chart
est v = 6.5

9 42 R Herculis
Too low. Can not see
stars distinctly enough to
identify field

Ledgered.

March 30, 1901 Posted.

9 55 W Herculis
α 3 v
β not seen est = 10

9 56 T Herculis
Too low.

9 58 R Corvi
Too near moon. No stars seen

10 03 U Cygni
Too low

The other stars on the list are too faint or too low to be seen in such bright moon light.

Friday, April 12, 1901

7 20 Nova Persei opera glass

v Persei 5 Nova
Nova 1-2 l Persei.

✓

7 30 S Canis Min.
d 2 v
v 0-1 e est = 8.5

8 02 R Tauri
v invis
0 seen

8 03 S Tauri
v invis.
0 seen

8. 25 Ui Orionis
v 1 p
0 too far off
est = 11
Hagens chart used.

U Orionis was not observed, but by an error of identification a faint double star bet. +20° 1173 and +20° 1178 was observed. I am certain of this, because I have looked up the configuration on I 24682 and remember the field perfectly.
A.J.C. Apr. 27, 1901

April 12, 1901

8 30 R Geminorum

s 3 v
v 1 t est = 13

8 40 R Cancri

δ 4 v
v 1 ε est = 12

8 45 V Cancri

g 1 v
v 2 f g > f

est = 8.5

ⓑ chart

8 51 S Hydrae

b 5 v
v 3 d ~~c~~ < d

est = 8

~~d 3 c~~
c 2 ~~e~~

Apr. 26, 1901. The wrong star was marked c on the chart used, so this observation of c is useless. the obs. of the var. is not affected.

9 T Hydrae

v invis
δ seen

April 12, 1901

9 15 X Virg
l 2 ~~m~~ v
~~x~~ v 2 m est = 10.5

9 25 R Comae
v invis.
green H

9 30 T Virg
k 3 ~~v~~
v 1 l est = 95

9 50 R Corvi
β 2 v
v 5 f est = 12

10 05 Y Virg
l 4 ~~v~~
v 1 k est = 10

10 10 R Leonis Min.
r 2 v
v 2 k est = 10

April 12, 1901 Led. Pat.

10 25 R Virginis
g, v
v 2h

Friday, April 26, 1901

M

7 32 U Orionis
l 4 v
v 3 f est = 7 ✓

7 50 Nova Persei opera glass.

3 $\overset{o}{\delta}$ Persei 3 Nova
Nova ✓

Clouds near, & forming over region too rapidly to complete observation

8 15 R Camelop.
Var. glimpsed. Clouds forming

8 35 Nova Persei opera glass.

3 o Persei 3 Nova
Nova H ψ (~~marked on Hagen~~)

Apr. 27, 1901. Star ψ is H.P. 597 or D.M. + 45° 804.

April 26 1901

9 05 R Camelop H
g 3 v
v = h est = 11

9 15 S Bootis High.
v invis.
m seen

R Urs. Min
9 22 d 2 v
v 3 e est = 9.

9 45 R Draconis
n 2 v
v 10 est = 11

9 55 S Cygni H
v invis.
n seen

April 26, 1901

10 00 T Cephei
v,
h 1 v.
v 1 g
v 6 k est = 8

10 06 S Cephei
c 3 v
v 3 d est = 8

R Cass
Too low.

10.25 S Cass
v = 9 est = 12.5

10 30 T Cass
Too low

10 35 S Persei
a 4 v est = 8
v 2 f

April 26, 1901 Ledgered
Posted.

1037 T Persei
c $\overset{3}{4}$ v
v 2 d est = 9

1040 R Aurigae
v = n est = 12
Both stars badly seen

1050 R Lyncis
v invis
0 seen

1055 R Urs. Maj.
g 4 v
v 1 h est = 8.

1100 S Urs. Maj.
d 4 v
v 1 e est = 8

1105 T Urs. Maj.
v invis.
0 seen

Saturday, Apr. 27, 1901 M

8 10 Nova Persei opera glass

ν Persei 1-2 Nova
Nova 5 φ Persei.

Nova easily seen with naked eye in bright moon light.

8 18 T Cass
g 4 v
v = h
H
obs. diff. field
low and sky bright
est = 9

8 20 R Cas
Too low. No stars seen.

8 30 R Leonis
l 4 v
v 1 m est = 8

April 27, 1901

8 45 U Virg. H
v invis.
α' seen, p seen

8 50 V Virg.
h 2 v
v 1 k est = 9

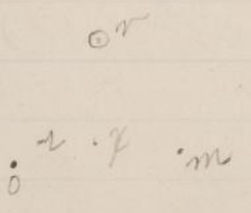
8 52 W Virg.
k 3 v
v = l est = 9.5

8 58 S Virg
v invis.
s seen H

R Can. Venat.

H

9 5 γ 1 v est = 11.5 ~~or 12~~



April 27, 1901.

9 10 R Bootis

e 1 v

v 3 f est = 8

9 30 S Serpentis

g 1 v

v 2 r est = 12

9 35 S Coronae

v 1-2 g

no "f" on chart est = 8

R Coronae

Too bright to compare with any stars on chart.

est = 7m

9 45 R Herculis

~~f 3 v~~

~~fv~~

g 2 v est = 10

v 0-1 h

April 27, 1901

Ledgered
Posted

10 00 U Herculis
s 3 v
est = 12.5

W Herculis
10 10 x 3 v
β not seen
est = # 12

10 20 S Herculis
g 3 v
v 2 h
est = 8.5

10 23 R Cygni
l 1 v
v 3 m
est = 10

U Cygni
10 30 v = n
v 3 o
est = 11

Led.
Posted.

Sunday, April 28, 1901

Nova Persei

8.20 Nova 1 30 Persei

Both stars barely seen with small opera glass.

Friday, May 3, 1901 M

Nova Persei Operaglass

8 00 l Persei 4 Nova

Nova 1 30 Persei.

8 15 U Orionis

e 5 f v est=7

v 1 f

v very red

S Persei

8 25 a 3 v

v 1-2 b est=8

8 30 T Persei

v = c

est = 8½

8 40 R Urs. Maj.

h 2 v

can not identify k from chart I have

est = 8½

8 45 S Urs. Maj

d 2 v

v 2 e est=8

Lado Plott-post May 3, 1901

8 55 T Cephei

h 3 v
v 3 h est = 8 1/2

9 S Cephei

c 1 v
v 5 d est = 8

very very red.

Monday, May 6, 1901

Nova Persei

7 46 Not seen
Cloud over region.
γ seen,

8 15 Nova Persei

Opera glass
3 δ Persei 2 Nova
Nova. 3 star to north marked H2.

8 30 Tried to compare Nova Persei in 6 in telescope. Nova seen but the comp. stars on Hagen's first chart are too far N. to compare Nova with.

8 45 T Cas
v = h
v 3 h

H
Field low, seeing poor
Est = 9

8 55 S Cas
n 3 v
v 1 0

H
est = 11^m

Lgd. Post. May 6, 1901.

8 [illegible] 6 R Aurigae

H

l 4 v

v = m est = 10 1/2

9 10 V Cancri

d 5 e

l 3 - 4 g

g $\overset{4}{7}$ h

h 2 f

h 2 k

k 1 f

f 4 l

l 3 m

k 2 v

v 2 l est = 9 1/2

9 25 R Lyncis

g 1 v est = 12 1/2

h not seen

9 50 X Cygni

z 4 v

v = α est = 12

Tuesday, May 7, 1901

8 05 Nova Persei   Field glass.

ν Persei $\overset{6}{5}$ nova
Nova 1-2 l Persei.

8 15 T Urs. Maj.   H
var. invis.
p. seen

Obs. difficult.
Field above head.

8 30 R Geminorum   H
q 3 v
v 1 r   est = 12

8 35 S Can. Min.

b 1 v
v 2 c   est = 8

8 50 R Cancri
s 3 v
v 1 t   est = 12

Hagen's chart & not. used

May 7, 1901.

8 55 S Hydrae
a 4 v
v 0-1 e est = 8 1/2

9 05 T Hydrae.
var invis.
g seen.

9 15 R Leonis Min.
v invis.
A t seen. H

Hagen's chart used.

9 20 R Leonis
0 3 v
v 2 f est = 9

9 30 X Virg
l 1 v
v 2 m est = 10

9 35 R Comae
v invis.
g seen

May 7, 1901

Ledgered
Plotted.

950 T Virg

v = h
v 3 k est = 9

10.05 R Cygni
h 3 v
v 0-1 k est = 9½

10 15 S S Cygni
q 1 v

v = 11,5
Seeing poor field low
but v certainly brighter than
normal.

Ledgered.

Wednesday, May 8, 1901

8 08 Nova Persei Fieldglass

l Persei 1 Nova
Nova 1 36 Persei

Seeing good.

8 25 Y Virg
v = 9

H
est = 12.5
Hagen's chart and notation used.

8 35 R Virg
e ~~f~~ 2 v
v 2 f
est = 8

8 45 U Virg
v invis
t seen

H
Hagen's Ch. and notation

8 50 V Virg
k 1 v
v 3 l
est = 9 1/2

8 52 W Virg
l 3 v
v 2 m
est = 10

May 8, 1901

9 00 S Virg
t 1 v
v 4 u H est = 12.5

R Bootis
9 07 f 2 v
v 1 g est = 8½

S Serpentis H
9 20 q 3 v
v 1 r est = 12
chart ⓐ.

9 25 R Corvi
h 1 v
v 2 k est = 10

9 35 R Hydrae
w 4 v
no fainter stars marked
est = 9½

Posted. May 8, 1901

9 45 S Coronae
v = h
v 2 k est = $8\frac{1}{2}$

9 48 R Coronae
v 4 f est = 7

S Librae
No stars visible, field too low.

10 12 U. Herculis

s 5 v
v = star previous marked t

10 15 S S Cygni
k 4 v
v 1-2 l est = 8
(old note)

Monday, May 13, 1901

7 58 R Urs. Min.
d 3 v
v 1-2 e   est = 9

8 10 T Cephei
h 3 v
v 2 k   est = 8 1/2

8 15 S Cephei
c 1 v
v 5 d

v too red to compare with any sense of certainty

8 ~~20~~ 18 Nova Persei

Nova 2 l Persei

Clouds near but the stars were seen very clearly.

Ledgered.
Posted.
Plotted.

May 13, 1901

8 35 S Bootis
v invis.
M Allen

8 40 R Camelops
l 2 v —
v 1 f
est = 9½

8 45 R Draconis
Clouds.

Posted
Ledgered

Tuesday, May 14, 1901

8 20 Nova Persei
Cloud over region.

8 30 R Draconis
l 1 v
v 1-2 m ext = 18

Clouds
8 45 Tried for Nova with telescope
but field was too low,

Wednesday, May 15, 1901

8 45 R Canum Venat. H
t 2 v
est = 12
Hagen's chart used. t is marked on Hagen.

8 50 R Herculis
l, v
v 4 m est = 9 1/2

9 05 W Herculis
v invis.
q seen H
q marked on Hagen

9 10 S Herculis
e 3-4 v
v 1-2 f est = 8

May 15, 1901

9 20 T Herculis
v invis. #
r seen
r marked on Hagen's chart

9 30 S Librae
k 4 v
v 1 l est = 10
Chart (a)

9 40 U Cygni
m 2 v
v 2 n est = 10 1/2
v very red.

S Cygni
v invis.
o seen

R S Cygni
d 1 v
v 2 e est = 8 1/2
Chart (a)

Ledgered.
Posted.

May 15, 1901

10 20 SS Cygni

C IV
V 2-3 d

est = 8

Sky clear

Thursday, May 16, 1901

8 03 U Orionis
Too low for obs. now

8.15 - 8.30 Tried for Nova Persei. Nova thought to be seen, but as l and other stars near by were not seen, the identification is too doubtful to attempt comparison.

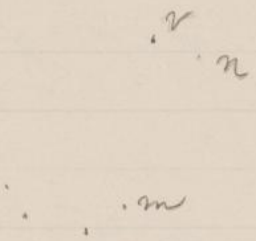
8 40 V Cancri
d 6 e
e 3 g
g 4 f
g 3 h
h 1 f

f = k   f is not a clearly defined star. It appears nebulous. When first looked at it seems fainter than k, but it gains somewhat by steady gazing.

k 2 l
l 2 m

May 16, 1901

9 08 V Cancri
m 3 v
v 4 n



est = 10

Can not find Hagen or any chart of faint stars near V Cancri

9 10 V Cygni
v invs
p seen

H

ⓐ

9 21 T Herculis
r 5 v
s not seen

Notation on Hagen
est = 12.5

R Cass
too low.

May 16, 1901 Red. Post.

9 50 S Scorpii
s 1 v
v 3 t
est = 12
Field low.

9 52 R Scorpii
v invis.
t seen

10 00 R Ophiuchi
b 3 v
v 2 e
est = 8

10 02 SS Cygni
b 2 v
v 1-2 e
est = 8

Friday, May 17, 1901

8.15 S Gem. min.
b 1 v
v 3 c est = 7.5

8 20 R Gem.
o 3 v
v 2 p est = 10 1/2

835 V Cancri
d 5 e
e 3 g
g 4 h
h 2-3 f
f 0-1 k
k 3 l
l 2-3 m

8 ~~9~~ 45 R Draconis
k x 5 v
v 0-1 l est = 9 1/2

May 17, 1901

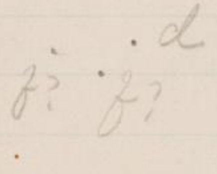
Posted.
Ledgered.

9 10 R Camelop

a 1 v

v 1 e est = 9 1/2

Look up star f



9 45 S S Cygni

b ~~2~~ 3 v

v 1 e

est = 8

field hazy.

Posted.

Friday, May 31, 1901

M

9 20 R Scuti
v bright est = 7
comp. stars not marked

9 31 R Cass.
too low.

9 35 SS Cygni
v dim.
α glimpsed at times
Field very hazy.

9 40 S & T Scorpii
too near moon

10 00 R Delphini
Behind East Dome.

10 10 R Vulpeculae
Field too hazy
Star seen but I can not
tell whether it is m or variable

Monday, June 3, 1901 Post. Lodge

M

8 50 S Persei Sky hazy
b 2 v
v 2 c est = 8½

8.52 T Persei
v = c
v 4 d est = 8½

9 15 R Leonis
v = t
v 4 μ est = ~~12~~ 9

9 21 S Cass
k 0-1 v
v 2 l est = 10

9 58 SS Cygni H
γ 2 v
δ not seen est = 12

Tuesday, June 4, 1901

9 10 R Gem.
Too low

9 20 R Aurigae H
l, v
v 3 m est. 10½
obs. difficult
field hazy & low.

9 30 R Lyncis H
m 1-2 v
v 3 n est. 10½

9 38 R Urs. Maj.
p, v
v 4 q est. 10

9 42 S Urs. Maj.
e, v
v 5 f est. 8

9 50 T Urs. Maj. H
v invis.
p seen

June 4, 1901

10 00 R Camelop
v = c
b 5 c est = 8 1/2

10 05 R Urs. min
d 3 v
v 1 e est = 9

R Draconis
10 15 d 5 v
v 1 e est = 8

10 18 T Cephei
l 3 v
v 2 m est = 10.

Thursday, June 6, 1901

8 13 R Gem
Field too bright. No stars visible
H. A. 6^{h} 24

8 30 S Cephei
c 2 v
v 3 d est 8
v glowing red.

8 31 R Gem.
No stars visible in field.
Cloud probably over region.

8 44 R Gem.
No stars visible in field

9 00 T Virginis
~~q 5 v~~ h 2 v
v 2 k

June 6, 1901

9 01 R Gem.
No stars seen in field

9 12 R Leonis min.
t 1 v
v 3 u est = 12.5 or less

v very carefully ident. with Hagen's chart. (Hagen's not used

9.25 X Virg.
l 1 v
v 2-3 m est = 10

10 05 S S Cygni
γ 3 v
v = δ est = 12
Seeing poor.

10 15 S Cygni
v invis
p seen

Posted:
Ledgerd

June 6, 1901.

10 20 R Cass
too low

10 25 U Cygni
kbv
v, l
H
est = 9½

10 40 S Bootis
v miss.
n seen

Saturday, June 8, 1901

Adjustment of telescope

8 43 R Comae
v invis.
η seen H
Chart (C)

8 45 R Corvi
d 3 v
v = e est = 8

8 53 Y Virg
v invis.
g seen H

9 0 R Virg
l 1 v
v 3 m est = 9

9 10 U Virg
o 3 v
v 0-1 p est = 10 1/2

Posted

June 8, 1901.

9 20 v Virg.

m 2 v est = 10

m is the star marked on new photog. chart. Look up ~~It is different from old chart~~

On chart ⓐ n > m

~~Hagen is also marked like ⓐ~~

June 11, 1901. Same star m is marked on all the charts. n is not marked on photog. chart.

9 30 R Hydrae

α 5 v
v 2 β est = 10

S Virg

9 38 m 1 v
v 3 n est = 9 1/2

9 45 S Librae
p 2 v
v 2 q est = 11

Monday, June 10, 1901

8 50 S Serpentis
v = g
v 5 r est = 11

9 10 R Herculis
~~m~~ o 3 v
v 4 p est = 10½

9 25 U Herculis H
v = t est = 12½

t is marked on lower part of chart (a).

9 45 W Herculis H
v invis
r seen

S Herculis
10 00 f 2 v
v 3 g est = 7½

Posted

June 10, 1901.

10 18 S Scorpii

z 2 v est = 13

10 20 R Scorpii

v invis.

z seen

10 27 R Ophiuchi

b 4 v

v 1 c est = 7 1/2

10 30 χ Cygni

t 2 v

v 1 u est = 9

Tuesday, June 11, 1901

8 50 S Coronae

n 3 v
v 1-2 o
est = 9½

R Scuti

9 00 v > f and < a

Intermediate comp. stars not on chart
est = 6m

9 15 R Cygni

d 3 v
v 2 e

v very red and difficult to compare on account of the blinding light of bright star near
est = 7

9 25 RS Cygni

d 2 v
v 2-3 e
est = 8

v very red

June 11, 1901

9 30 V Cygni
var invis.
t seen

t is marked on Hagen's chart.

9 40 R Vulpec.
l 2 v
v = m est = 9½

9 ~~4~~5 5 T Cass.
l 3 v
v : f est = 8
v very red

10 30 R Delphin
l 3 v
v = f est = 8½

June 11, 1901 Posted.

10 34 T Aquarii
l 4 v
v 0-1 m est = ~~9½~~ 10
Field very low.

10 50 R Cass +
n 4 v
v 0-1 p est = 10

R Sagittarii chart ⑬
11 00 v probably invis. Star seen in position of variable appears to be comp. star u
t 3 u.
This star (u) may be the variable. I am not sure
11 05
Est = 12

S Sag.
0 2 v
est = 11

Thursday, June 13, 1901

8 50 T Herculis — Chart (a) used
v invis — also marked at bottom
b seen — "Chart 2"

9 0 SS Cygni
r 3 v — H
v 0-1 s — est = 12

9 10 R Camelop
b 4 v
v 1 c — est = 8 1/2

9 15 R Draconis
v = d
v 4 e — est = 8 or brighter

10 15 R Cam Venat.
s 4 v — H
v 0-1 t — est = 11
Hagen's notation

10 20 R Bootis — H
o 2 v
v 1 p — est = 10 — Hagen's chart used & notation

June 13, 1901 Posted

10 25 α Pegasi
Too low

The index on western H. A. circle should be firmly clamped. It moves and is constantly getting out of place.

Saturday, Sept. 21, 1901

M

6 56 S S Cygni H.

γ 2 v 1

v 1 δ est = 12.5 ✓

R & S Sag.

Too near moon.

7 20 R Delphini H ✓

v invis

p seen

Hagen's chart

p marked on Hagen

X 7 30 T Aquarii H

v = s

v 3 t est = 12 ✓

Hagen notation

7 40 R Vulpec.

c 2 v

v 1-2 d est = 8.5 ✓

Sept 21, 1901

7 43 S Aquarii
Too low

8 R Pegasi
m 1 v
v 2 n est = 9.5 ✓

8 10 S Pegasi
r 4 v H est = 12.5
Hagen's notation

8 30 T Androm
q 3 v
v 1 r est = 12 ✓

8 40 R Androm. ✓
s 2 v
No family plan on phot. chart.
Can not find Hagen

Sept. 21, 1901.

8 50 S Ceti
Field too hazy.

9 00 R ~~Arietis~~ Arietis ✓
v invis
l seen and faint star
near l, marked f on @
Hagen can not be found.

9 05 R Cygni

o 3 v ✓
v 2 p est = 9.5

9 10 R S Cygni
c 1 v
v 3 d est = 8 ✓
v very red

9 30 R Draconis
n 4 v ✓
v 0-10 est = 10 1/2

Sept. 21, 1901.

9 40 X Cygni

Too bright to compare successfully.
est = 1 7

Sunday, Sept. 22, 1901

M

8 20 R Urs. Maj. #
r miss.
g seen ✓

8 30 R Can. Venat. ✓

e 4 v
v 1 f est = 9

8 35 R Bootis ✓
l 2 v
v 2 m est = 9
Region low. Seeing poor

8 40 S Librae
Too low

S Serpentis ✓

8 50 h 3 v
v = k
Fields so near
moon that stars are barely seen
est = 9?

Sept. 22, 1901

8 55 R Coronae
Too bright to compare with any comp. star marked on chart.

9 - T Cass
~~e 8~~
d 5 v
v ~~4~~ 1 e est = 8

9 10 S Cass
v 4 e est = 7½ ✓
d not on chart

9 15 R Cass
f 1 v 3 g est = 6½ ✓
~~f not on chart~~

9 18 S Persei
v = f
v 3 g est = 9

9 20 ~~h~~ T Persei
b 3 v
v 1 c est = 8

Sept. 22, 1901

9 30 R Aurigae
c 3 v
v 2 f est = 8

9 35 R Lyncis

c 1 v
v 3 d est = 7 1/2

Led. Plott. Post.

New photographic enlarged charts are used from this time on unless otherwise stated. Sept. 24, 1901.

Monday, Sept. 23, 1901

M

7 00 R Ophiuchi

v invis.
p seen.   p marked in Hagen

Look up comp. star p. From Hagen, it appears to be a D.M. star but it is not marked on photo. enlargement

7 10 R Sag. ✓

o ~~1~~ 2 v   H
v 1-2 p   est = ~~10~~ 9.5

very near moon but stars very clearly seen

7 12 S Sag. ✓
v invis.
k seen.

Sept. 23, 1901

7 30 R Scuti
f 2 v
v 4 g est = 7 ✓

$7 35 S Coronae
v invis H ✓
g seen

7 40 U Coronae ✓
v = g
est = 8 1/2

7 45 R Herculis
v invis. H
f seen distinctly ✓
g seen at times
f Hagen's notation

7 55 U Herculis
s 3 v
v 4 t est = 11 ✓

Hagen used

Sept. 23, 1901

8 02 (W) W Herculis ✓
a 2 v
v 2 b est = 8 1/2

8 10 S Herculis H. ✓
r 1 v
v 3 s est = 11.5

Hagen used

8 15 T Herculis ✓
h 2 v
v 1 k est = 8 1/2

8 35 S Urs. Maj. H ✓
n 3 v
o not seen est = 11.5

Hagen is not to be found. Old chart of Z.t. stars (very poor) is used.

8 40 T Urs. Maj. ✓
f 2 v
v 2-3 g est = 8

Sept. 23, 1901.

8 45 S Bootis ✓
e 1-2 v
v 2 f est = 9½

8 48 R Camelop ✓
c 3 v
v 1 d est = ~~9~~ 8½

8 54. R Urs. Min ✓
c 2 v
v 1 d est = 9

9 10 T Cephei ✓
h 5/v
v 1 k est = 9

9 15 U Cygni ✓
v 0-1 e
v 3 f est = 8½

9 20 S Cygni ✓
v invis.
m seen

Sept. 23, 1901

9 30 V Cygni ✓

v invis.

n seen

9 40 S Aquarii

Too near moon. No stars visible

9 45 S Ceti

v invis. ✓

m seen

Seeing very poor. Haze & moon

9 50 S Cephei ✓

c 2 v

v 3 d est = 8

v very red.

L. P. P.

Wednesday, Sept. 25, 1901

M

8 00 δ Ceti, δ Aquarii and various other stars low in the east tried for, but the moon is so bright that no obs. could be made

8 25 U Persei

chart @ ✓

v = m
v 3 n est = 11

8 35 R Triang.

@

α' 4 v
v 0-1 μ

v = 7pm :

Order of br. of provisional sequence

α 5 α'
α' 4 μ
μ 2 ζ'
ζ 3 β'
β' 4-5 η
η 3-4 β
$\eta \overset{3}{\times} \theta$
θ 4-5 θ'
θ' 3 γ   Int. bet γ & δ too large to estimate

Sept. 25, 1901

9 10 U Camelop. ⓐ
a 3 v
v 1 d
est = 4 1/2
v very red

9 20 T Camelop
v invis ⓐ
b seen

9 25 R Piscium ✓
k 1-2 v
v 3 b est = 8

9 30 R Aquarii
v not seen
m seen
n not seen.
Region too near moon

S Aquarii
9 35 v invis ✓
m seen
Region is just below moon

L. P.

Thursday, Sept. 26, 1901

M

8 ∿ Comp. stars for RT Triang.

Estimates of br. of photog. sequence

Phot. Visual see Chart ⓐ

a ≡ α

~~c~~ e − b ≡ ε entirely too large visually to estimate

For vis. seq. see p 192

~~Let α' = a~~
~~α = b~~
~~μ = c~~
~~ξ = d~~
~~ζ' = e~~ then insert photog. comp. stars
~~η = f~~

ζ 4 b (~~phot. vis.~~ ~~b = e~~) Sequence would then read,
b 1 η α, (a or α') ~~[illegible]~~, μ, ζ, b, η,
η 2-3 θ c or θ, θ', d, δ, e
θ 3 θ' in which the phot. comp.
θ' 2 d stars are a, b, c, d, e, and
d 4 δ the visual previously selected
δ 3 e are represented by Greek letters
f too faint in moon-light.

Sept. 26, 1901

9 10 S Urs. Min.
var. easily identified from ✓
phot. chart.

v = e marked on phot. chart.
b 4 c
Interval bet. phot. c & d
is very large visually. d is
barely visible with low
power in the moon-light.

9 30 V Delphini
v min. ✓
field too near the moon
to ~~see~~ estimate comp. stars.

9 40 o Ceti
v 4 f ✓

x not on chart   est. 7

9 45 R Ceti ✓
v not seen
k seen   LP

9 50 U Ceti
Region too low

Friday, Sept. 27, 1901

M

8 00 U Persei

Identif. of comp. of photog. sequence of comp. stars.

Order of visual brightness

a, c, b, d,

The fainter stars marked on phot. chart are easily identified on Hagen but they are too faint to be clearly seen with high power in the bright moon-light.

It is evident, however, that the series could not be used without numerous changes.

The foll. comp. stars are common to the phot. & visual (See Mr Wendell's Bk 3, p.)

Phot Vis.

a = a

d = h

~~c = k~~

~~b = d~~

Sept. 27, 1901.

7 U Camelop.
var. red.
Phot. comp. star a is from
1.5 – 2 magnitudes fainter
than the variable. I have observed
this star frequently and have
never seen it much fainter
than at present. Hence the
phot. sequence will probably
not be of any use visually.-

Monday Sept. 30, 1901

7 03 SS Cygni

γ 3 v
v 1-1.5 est. = 12 ✓
Seeing fine.

7 15 R Tauri Moon rising
comp. stars.

α' 4-5 α
α 4 μ
μ 3 ζ
ζ 3 b
ζ b-1-2 e (or θ)
b 1 η
η 2 e (or θ)
c 2 d
d 5 or 6 e

M

7 45 S Urs. Min.
~~a 5 b~~ a not on chart
~~b~~ 5 c
c-d interval too large ~~to~~ est.
e 1 d
I can not identify the fainter comp. stars ~~from~~ from the photographic chart

Sept. 30, 1901.

8 10 v Delphini

a 4 f
b 2 c
d 1 c
a 6 e
e 5 f

v visis.

Tuesday, Oct. 1, 1901

7 25 SS Cygni ✓

γ 2 v

v 1 δ est = 12

Seeing fine

7 30 R Can. Venat.

e 1 v ✓

v 3-4 f est = 8 1/2

Hazy

7 45 S Coronae H ✓

v invis.

f seen Hagen used.

7 50 S Serpentis ✓

k 3 v

v = l est = 9

Seeing very poor

Haze or cloud in west.

8 00 R Coronae

v too bright to observe in telescope

est = 7

Oct. 1, 1901

8 10 R Herculis
v invis. H ✓
p seen Hagen
sky clear.

8 15 U Herculis
s 3 v H
v 1 t est = 11 ✓
Hagen

8 20 W Herculis
a 2 v
v 4 b est = 8 ✓

8 30 S Herculis
q 3 v
v = 2 est = 11 ✓
Seeing poor
Hagen

8 39 T Herculis
m 2 v
v 2 n est = 9½ ✓

Oct. 1, 1901

M

8 40 R Scuti ✓
v 1-2 f est = 7

8 47 T Aquarii
p & v
v 1-2 g est = ✓ 9½

8 55 R Cass
f & v
v 1 g ěst = 7

Clouds in S. west

(21) (21) Led. Plott. Post.

Oct. 3, 1901

8 40 R Oph.
Too low

R Bootis
Too low

8 55 T Androm #
q 1 v ✓
v 4 h est = 11
Hagen

9 05 T Cass
d 5 v
v 1-2 e est = 8 ✓

9 10 S Cass. ✓
v 4 e
d not on chart est = 7 1/2
9 13 Cloud
S Persei
9 17 f 3 v
v 1 g est = 9 1/2 ✓

Oct. 3, 1901.

The seeing which was excellent has become poor, clouds drifting

9
8 25 S Ceti (Ceti)

S glimpsed, but clouds formed before comp. could be made.

9 45 S Ceti
Seeing fair
ε 3 v ✓
v 1 s est = 12

9 55 R Piscium ✓ ✓
ζ 4 v
v 0-1 g est = 8 or brighter

10 00 R Pegasi ✓
v = 0
v 4 p est = 10

(13) (34) L.P.P.

Friday, Oct. 4, 1901

7 00 R Oph,
r invis. #
s seen Hagen ✓

7 15 R Sag.
n 1 v est = 10 ✓
v 1 0 n & o are so
near a bright star
that obs. is difficult

7 25 S Sag,
v invis. ✓
t seen Hagen

7 30 R Delphin
v invis. ✓
p seen Hagen

7 40 R Androm.
g 3 v ✓
v 1½ est = 10½

Oct. 4, 1901

7 45 R Aurigae
v = e
d 4 v   est = 8 ✓

7 50 R Lyncis ✓
d 2 v
v 2-3 l   est = 8
Field low ✓

8 00 R Urs. Maj.
v invis.
s seen   Hagen

8 10 ~~R~~ S Urs. Maj ✓
l 3 v
v 1 m   est = 10
Old chart used, High.
Hagen not in place ✓

8 12 * T Urs. Maj
g 1 v
v 3 h   est = 8 1/2 ✓

Oct. 4, 1901

8 15 S Bootis ✓
e 3 v
v 2 f est = 9

8 20 R Camelop ✓
e 2 v
v 2 f est = 9 1/2

8 25 R Urs. Mini
d 2 v ✓
v 3 f est = 9

8 30 R Draconis H ✓
o 2 v
v 3 p est = 11
Hagen's old chart used

8 45 S. Cygni ✓
o 3 v
v 1 p est = 12 1/2

obs. diff; var. only seen when looking sideways so that the glare of "d" is avoided.

Oct. 4, 1901

8 50 R Cygni ✓
g 2 v
v 1 r est = 9

9 00 S Aquarii
Hagen
r 4 v
v = s est = 11 1/2 ✓

9 25 SS Cygni ✓
p 1 v est = 13

Used Mr. Colton's chart.

(31) (65) L. P. P.

Friday, Oct. 11, 1901

7 35 SS Cygni H

v = γ

v 3 δ est = 11.5

Nearly overhead. Obs. difficult.

7 45 R Bootis

Field too low & hazy

8 05 S Pegasi H

Hagen.

s 4 v

v 1 t est = 12

8 15 χ Cygni

h v

v 4 k est = 7½ √

k is red

h is white

v is red, about same

color as k

Oct. 11, 1901.

8 25 RS Cygni
c 1 v
v 4 d est = 8 ✓

v very red.

8 30 R Vulpec.
g 3 v
v 0-1 h est = 9 1/2 ✓

R Arietis # ✓
8 45 ~~C~~°
m 3 v
v 1 n est = 10 1/2

Hagen.

8 50 T Persei
d 2 v
v 1 e est = 9

v not red.

9 05 U Cygni (14) (79)
Cloudy. L.P.P.

Stopped by clouds

Tuesday, Oct. 15, 1901

7 05 S S Cygni
b 1 v
v 3 c est = 8

7 15 R Bootis
v 2 e
d. not on chart est = 8

7 20 ~~R~~ S Urs. Min.
Estimates of photog. comp stars
b 4 a
a 2-3 c
d is faint, it appears to be
1½ magnitude fainter than c.
d 2 e
e 3 f
f 4 g
I can not identify h from
the photog. chart.
k is too near f to compare

Oct. 15, 1901

7 40 S Urs. Min.
c 2 v
v 1 f est = 9½ ✓

8 R Trianguli
estimates of comp. stars

Eng. letters indicate photog. sequence
Greek " " unsuitable stars

α 4 a
a 5 μ
μ 3 ζ
ζ 5 b
b 3-4 c
c 4 d
d 5 δ
δ 2 e
e 2 f
f 6 or 7 g
g 2 h
k not seen

ζ 3 v
v 2 b est = 7½ ✓

October 15, 1901.

8 40 v Delphini
est. of photog. sequence

a 4 d
d 1 b
b 4 c
c 5 e
e 6 f

High power used in making estimates

v invis.

8 45 # T Cephei

g 3 v
v 0-1 h est = 8

8 55 S Cephei
e 1 v
v 3 f est = 9
v very red

9 00 U Cygni
c 1 v
v 2-3 d est = 8

Oct. 15, 1901

9 37 V Cygni ✓
v not seen
s seen

9 45 o Ceti ✓
2 1 v
v 5 α est = 7½

9 55 U Ceti ✓
e 1-2 v
v 3 f est = 8

10 00 R Tauri ✓
v invis
s seen

10 02 S Tauri ✓
v invis.
s seen

(20) (99) L. P.

Can not find obs. book.

Wednesday, October 16, 1901.

7.10 SS Cygni
a 5 v
v 1 b
v 3 c
est = 8
var. nearly overhead.

7 20 X Aquarii var. 7999

v invis.

est. of photog. comp. stars.

a – b interval too large to estimate
probably about 1 magnitude
b – c interval too large
c 5 d High power used from c down
d 5 e
~~e 1 f~~
f 2 e
e 4 g
g 4 h
k not seen

October 16, 1901

X Aquarii (cont.)

a' inserted bet. a & b

a 6 a'

a' 3 b

b 3 b'   b' inserted bet. b & c.

b' 4 c

U Persei

Est. of photog. comp. stars
Int. bet a & b is too large,
I will insert vis. comp. star b'

phot. a = vis. a i.e. they are the same star

a 4 vis. b

vis. b 2-3 vis. c

vis. c 4 vis d

vis. d 3-4 vis e

vis. e 3 phot. b

~~phot. b~~ vis. c 4 phot. c

phot. e 5 phot. b

phot. d 1 phot. b

phot. d 3 ~~phot. e~~ visual h (his final notation)

vis. h (orig) ~~phot. e~~ 4 " f

~~N~~ Oct. 21, 1901.
Photog. comp. stars e, & f
were incorrectly identified.
Star h on chart a
was observed for
photog. e,

Oct. 16, 1901.

U Persei (cont.)

~~phot. f 3 phot. g~~ phot. g was not observed.

~~" g 1 " k~~

" k 2 " l

" l 2 " h

phot. d $\overset{5}{3}$ v

v 1 ~~phot. e~~ vis l (k in final notation))

est = 10½

phot. d = visual k (k in final notation)

∴ this obs. reads in vis. notation

k 5 v
v 1 k

8 45 X Cygni

k 3 v

v 0-1 l est = 7

8 50 R Aquarii

l 4 v

v 1 m est = 10½

9 10 R Ceti

v invis.

o glimpsed (Hagen)

(11) (110) L. P. P. (*45)

Sept. 24.
East. Decl. & h.a. circles the set same as star.

Tel. W.
fin – 10′ 3 8″ set – 11 30
" +12 20 " +12 20