

KG
11365
750

KG113 65,750

KG 11365.75D



October 18, 1904 (Tuesday)

JD 6772 L.P. Obs WCO

R Coronae (moon)

6 45

d 2, 2 e

6.35
6.52
6.44

Alt.

S S Hercules 5"

20150 m
L 10.5

6 51

d 3 N

I examined the region with the charts made by Hising but the sky is too bright to see many faint stars. Will have to wait till the moon is out of the way.

7 00

I am going home now & to return later, if clear, for the morning Vars.

10 50

Returned to put away telescope as it is too cloudy now for late observing.

(1) (27) Vars
(1) (20) N.S.

Oct 21, 1904 (Friday)

JD 6775 - L.C.C. 18.00

12 00 Setting up Telescope,

12 15 Noting out charts

12 25 021403 α Cete 5" m
E 6 var 9.79

Hagen's Var near α Cete

12 28 10.0 (1) 5 var see chart of α Cete

045307 R Orionis 5" m

12 40 β 3, 4 d 9.4 Cir 74-4

050003 V Orionis

12 46 f 4.19 10.2 5" m
Cir 74-4

053005 T Orionis 5" m

12 49 f 4.29 10.0 Cir 74-4

Oct. 21, 1904

052404 δ Orion 5" m
 12 54 11.0 m 3, 1 m cir 74-II

054615 Z Tauri 5" m
 13 03 e 3, 3 f cs Not
 est 10.0

13 10 Objective quite dewy & cleaned
 070122 R Gemini 5" m

13 15 h 2, 3 l A. 45
P. 34
P. 40

073723 δ Gemini 5" m
 13 18 f 5 m cir 74-II

074323 γ Gemini 5" m
 13 20 ds, 2 e 9.1 cir 74-III

074922 μ Gemini 5" m
 f 3 m Not from Hagen

4

Oct. 21, 1904

13 28 072708 δ Can Min 5" m
 $g\ 3\ 2\ h$ $\frac{9.09}{9.07}$
 $\frac{9.08}{9.08}$

13 36 073508 η Can Min 5" m
 $b' 4, 3\ c$ $\frac{9.0}{9.0}$ $cu 74-II$

13 42 072811 T Can Min 5" m
 $g\ 3\ \underline{\underline{u}}$ $cu 74-II$

13 48 071713 V Gemm 5" m
 $h\ 3\ var$ $\frac{11.0}{11.0}$ $cu 74-II$

14 03 063308 R Monoc. 5"
 $\alpha 5, 0\ 3$ $cu 14-II$

14 12 061702 V Monoc 5"
 $f\ 3\ \underline{\underline{u}}$ $74-II$

14 15 Object just dewy again

Oct 21, 1904

14 30 Telescope & objective so reeking
with dew that it is utterly
impossible to continue further
observing.

15 00 Have dried the objective now
so will try to observe again

094211 R Leonis 5" mc

15 07

g 3, 2 2

~~4.32~~

p. 51

p. 21

5.36

093934 R Leo Min 5" mc

15 15

e 4, 2 g

7.49
7.50
7.50

mc

081112 R Cancri 5" mc

15 20

f 0, 5 g

7.32
7.23
7.24

083019

Vt Cancri

5" mc

15 24

Var Vt. N.

Oct. 21, 1904

15 28 081607 ✓ Cancri 5-11
 9.3 N 11.5

15 30 084803 NX Hydrae 5-11
 e 3.2 f $\begin{array}{r} 8.55 \\ 8.36 \\ \hline 8.46 \end{array}$

15 47 085008 T Hydrae 5-11
 h 3.2 k $\begin{array}{r} 9.36 \\ 9.17 \\ \hline 9.26 \end{array}$

15 52 082405 RT Hydrae 5-11
 d 2.3 c $\underline{9.8}$

Cas' Chart not
 in black ink used

16 00 Will quit for tonight
 dew again heavy.

16 15 Dismounted telescope

$\begin{pmatrix} 19 \\ 16 \end{pmatrix}$ $\begin{pmatrix} 106 \\ 29 \end{pmatrix}$

Oct. 24, 1904 (Monday)

635 ~~126778~~ L.C. Ob. H.C.O.
~~mounting 184205~~
 655 P. Scuti 7.29. m
 d 2, 2 e 5.39
 5.45
5.42

191717 T. Scutellaria 5" m

705 d 3, 3 e pp
 var reddish

023033 R. Trianguli 5" m
 709 e 3, 2 f 1.4

015254 U. Persei 5" m
 713 var. ca 7.0

180531 T. Herculis 5" m
 715 b 4, 1 c 7.41
7.07
7.24

163266 P. Draconis 5" m
 718 f 3, 1 g 7.52
7.46
7.52

Oct 24, 1904

221722 RT Aquarii 5^mc 3, 3 d ~~AA~~ 05 Not

7 33

193509 RV Aquilae 5^mvar. N.N.
25 N c chart

7 38

193311 RT Aquilae 5^m

a 4, 3 b c chart

7 40

185634 Z Lyrae 5^m25 N

7 50

190967 U Draco. 5^m33 N

8 05

175458 T Draconis 5^mh 5 N

8 20

Oct 24 1904

At 31.00 a brilliant meteor
in the north appeared
brighter than Jupiter.
Lasted for several seconds
& was seen by McCullar &
Campbell & Satterbury.

At 40 23588 V Cygni 5" m
 $\begin{array}{r} 6.60 \\ 6.62 \\ 6.62 \end{array}$ C 1.5-d

9 24 Williams Star 5" m
 Est 10.8 e 5.0 / B see C chart.

201647 U Cygni 5" m
 9 27 $\begin{array}{r} 9.02 \\ 8.95 \\ 8.98 \end{array}$ g 2.3 h Varied.

194632 X Cygni 5" m
 9 33 $\begin{array}{r} 8.69 \\ 8.70 \\ 8.71 \\ 8.73 \end{array}$ a 3. t 1.3 u
 RT Cygni 5" m

9 38 $\begin{array}{r} 6.93 \\ 6.93 \\ 6.93 \end{array}$ e 2.2 f Not of R Cygni
 used on R.T.

Oct 24, 1904

210868

T Ceph

5" m

9 42

$$\begin{array}{r} 9.85 \\ 9.80 \\ \hline 9.82 \end{array}$$

m 2, 3 n

S. S. Cygni 5" m

10 15

$$\begin{array}{r} 10.83 \\ 10.82 \\ \hline 10.82 \end{array}$$

k 4, 1 b.

Obs. diff. stars faint, but
obs. considered C. 12.

10 30

Dismounted telescopes

(15) (121) Vars. L. P. P.
(4) (33) N. S.

Oct 26, 1906 (Tuesday)
J.D. 6780 L.C. Obs. 18.00.

8 30 Cloudy early but clearer
 mounted telescopes

213843 δ δ Cygni 5" m

8 45 c 4, 0 c $\frac{2.70}{2.60}$
 $\frac{2.75}{2.60}$

235182 V Ophi 5" funder

8 50 c 3, 2 c $\frac{6.40}{6.30}$ m
 $\frac{6.35}{6.30}$

8 52 c 3, 1 c $\frac{6.40}{6.30}$ m
 $\frac{6.40}{6.30}$

230110 R Regasi 5" m

9 00 h 3, 1 h $\frac{2.75}{2.60}$ m
 $\frac{2.65}{2.60}$
 est of mean = 2.7

9 15 133273 T Urs Min 5" m
 var N.S.
 α 5" m < 10.5

9 27 181136 W Lyrae 5" m
 $\frac{2.75}{2.60}$ 7.4

Oct 26, 1904

Deeph

202817

2 Lyrae

5th10.4

f 2, 2 P

ms

as not.

9.36

205017

X Deeph

5th

m

9.45

X ovar 10.7

192928

+ 7 Cygni

5thms

9.50

X 4, 4/3 10.0

191637

2 Lyrae

5th

m

9.58

X 5 ms

200812

R K Aquilae

5th

m

10.18

X 5 var 11.0

200938

R Cygni

5th

m

10.25

7.45
7.31
7.38c 2, 2 d var red

202539

RW Cygni

5th

m

10.30

b 2, 2 c p.1

var red

Oct. 26, 1904

021403

O Ceto' 5" m

10 35

2.57

E 4 var

Magn Est = 9.6

St Urs Min 5" m

10 42

2.0

a 2, 4 c

b 3 a

(13) + (134) Var.

(2) — (35) N. D.

Ledgered,
Plotted,
Posted.

Oct. 27, 1904 (Thursday)
 226781 LCOB 18.00

154615 R Serpens 5"
 C 0.74-D

6 05 e 3, 3 f 2.0

6 12 143227 R Boota 5"
 g 3, 3 h $\begin{array}{r} 2.74 \\ 2.44 \\ \hline 2.61 \end{array}$

Reclara 5"

6 22 L 2, 5 B
 see spec chart =
 17 h + ~~10~~ 0 + 20

6 21 154428 R Corone #19
 C 2, 3 d $\begin{array}{r} 6.14 \\ 5.45 \\ \hline 6.00 \end{array}$
 S Mrs Maj 5"

6 29 l 3, 2 m $\begin{array}{r} 10.39 \\ 10.45 \\ \hline 10.42 \end{array}$

6 33 141954 S Boota 5"
 g 4, 1 h $\begin{array}{r} 10.50 \\ 10.50 \\ \hline 10.54 \end{array}$

Est mag = 10.6

Oct. 27, 1904.

160118 R Herc. 5"

6 37

f 0, 3 g $\begin{array}{r} 2.53 \\ 2.53 \\ \hline 2.54 \end{array}$

146

47

162^A07 N. Herc. 5"
g 5 var11.0

001754 T. Cass. 5"

6 53

 $\begin{array}{r} 2.56 \\ 2.02 \\ \hline 2.54 \end{array}$ g 5, 0 h est magn. 9.0

170627 RT Herc. 5"

7 94

25 var

11.5

see 65 Chart

 $\begin{array}{r} 42 \\ 183505 \end{array}$

R Herc.

f 0, 3 g

7 14

e 2, 3 f $\begin{array}{r} 5.45 \\ 5.012 \\ \hline 5.46 \end{array}$ 200906 Z Aquilae 5"

7 25

There is a star near the pos
of the var. as indicated on the
chart, & if this is the var. est
g 5 var 11.0

Oct. 27, 1904

203905

Y Aquarii 5"

e 3, 3 f

CS Not

Juno

5"

L 3, 1 B

213843

S Aquarii

5"

d 1, 3 e

Est 8.7

$$\begin{array}{r} 470 \\ 260 \\ \hline 265 \end{array}$$
210504

R S Aquarii

L 7 var.

CS Not

var seen with difficulty

Too Record for Prof. W.

$$\begin{array}{cc} (16) & (150) \\ - & (35) \end{array} \quad L.P.P.$$

Oct. 28, 1904 (Friday)

JD 6782 L.C. Ob. H.C.O.

6 00 Sky very clear; mounted telescope.

Pallas 5"

6 27 $\alpha 4, 1/3$ see chart

Note: - the object taken for Pallas last night is certainly the correct one for it has moved from its place of last night.

230759 V Cassiopeiae 5"

6 40

$\alpha 3, 0 m$ (12th magn)
see photog. chart of Region

004435 V Andromedae 5"
(11th magn)

6 52

$\alpha 1, 4/3$
see Cs' chart

201121 R T Capric

> 00

$\alpha 2, 3 b'$

5"
photog. Not.
see chart of C.
(6th magn)

Oct. 24, 1904

021024 R Arietis 5"

$$\begin{array}{r} 11.35 \\ 11.28 \\ \hline 11.32 \end{array}$$

024217 T Arietis 5"

74-II

f 3, 39 9.1210124 V Capric 5"h 5 N

74-II

204016

T Delph. 10.1

5"

74-II

S' Delph.

5"

203816

h 2, 2 k 9.9

032043

lf Persei

5"

2 2, 3 3

(8.5 mag)

Oct 24, 1904

7 49 235715 W Cete 5"
a 3, 3a
C. Not.
(~~7~~ magn)

7 57 235209 V Cete 5"
h 3 var
Cis) 4-II
(11.5 ~~th~~ magn)
very just glimpsed.

foo 235182 V Cephri 5" finder.
b 4, 2 c $\begin{array}{r} 6.50 \\ 6.30 \\ \hline 6.40 \end{array}$

8 06 204402 V Aquarii 5"
d 4, 1 e $\begin{array}{r} 2.0 \\ 74-II \end{array}$

8 16 213843 S S Cygni 5"
c 2, 1 d $\begin{array}{r} 2.70 \\ 2.50 \\ \hline 2.60 \end{array}$ est 2.6

8 28 213678 S Cephri 5"
g 2, 2 h $\begin{array}{r} 10.04 \\ 10.02 \\ \hline 10.03 \end{array}$ est 10.0

8 52 183225 R Z Herc 5"

2 5, N < 11.5
var not surely seen.

Oct. 21 1904.

18 57 37 RT Lyrae

9 10 α 7 var (11th mag) ^{is chart}

19 05 29 V Lyrae 5"
Var N.N. < 11.5

9 27

001809 δ Ato 5"
10.59 m 11.40 est 10.6
10.54
10.56

9 33

221613 γ Pegasi 5"
9th mag.

9 47

α 1, 2, 3
see chart.

21402K RR Pegasi 5"
f 4 2 α 9th mag.

9 57

215934 RT Pegasi 5"
is not
f 2, 3 α (10.5th mag)

10 04

Oct. 24, 1904

031401

X Ceto 5"

10 20

b 3, 2 a photo Not
~~the~~ Magn022413

U Ceto 5"

10 30

f 2, 1 g

$$\begin{array}{r} f. 4.6 \\ f. 4.1 \\ \hline f. 4.4 \end{array}$$

20.5

10 45

Dismounted telescope.

$$\begin{pmatrix} 23 \\ 3 \end{pmatrix} \begin{pmatrix} 173 \\ 34 \end{pmatrix} L. P.$$

Oct 29, 1904 (Saturday)

HD 6783 RR Obs HCO.

7 20 clear sky: mounted telescopes.

7 35 021558 N Persei 5"
h 2, 3 k $\begin{array}{r} 10.12 \\ 10.38 \\ \hline 10.25 \end{array}$

7 41 024356 W Persei 5"
h 2, 3 m ~~10.5~~
10.5 \pm magn.

7 48 160150 RR Herc. 5"
c 1, 5 d ± 0.2

8 00 210516 Z Capric. 5"
x 5 u

look up on photog plate the
region of the var.

Oct. 29, 1904.

R R Aquarii 210903

S 10

f 2, 29 2.5 5"

R Vulpec 205923

S 20

$$\begin{array}{r} 10.64 \\ 10.63 \\ 10.56 \\ \hline 10.61 \end{array}$$

p 3, 09, 32 5"

210812 R Equilei 5"

S 26

Not sure whether I see
the var. of an adjacent star.
I think the var. is invisible

043274 X Camelop 5"

If the star I have assumed is the
var. est = 10th mag.

S 37

2, 2, 5/3

look up plate

S 45

$$\begin{array}{r} A. 40 \\ P. 70 \\ P. 75 \end{array}$$

S R Cygni 5"
d 2, 2 e est 2.8

Oct. 29, 1904

213244 W Cygni ~~FLR~~

8 53

 $\alpha 3, 3 \beta$ 054974 V Canesop ~~FLR~~ 5"

8 59

 $\alpha 4, 2 \beta$ 9th magn.022000

R Ate 5"

9 08 If var is certainly seen and I think
it is not =
n 2, 20

10.80
11.00
<u>10.90</u>

055353

Z Aurigae 5"

9 15

 $\alpha 3, 2 \beta$ 10th magn.

052034

N Aurigae 5"
(moon up)

9 24

 $k 3 \underline{N}$

213753

R Cygni

5"

9 40

h 3 var

cir 74-II

~~9 30~~

Oct. 29, 1904.

9 50 Moon up & shining on haze makes
observing very difficult. Some light
cloud in North also.
Considerable dew in air, and also
some on my objective. No Owl
quit for tonight.

10 00 Dismounted telescope.

(12)	(144)	L.P.P.
(3)	(41)	

Oct. 31, 1904. (Monday)

JD. 6785 LC Obs. HCO.

7 00 Clear sky; mounted telescope.

7 10 $\begin{array}{r} 6.24 \\ 6.05 \\ \hline 6.14 \end{array}$ R Coronae $\frac{H}{L}$
c 3, 1 d 6th magn

7 12 184205 R Deneb $\frac{H}{L}$
er, 3 f $\begin{array}{r} 5.85 \\ 5.83 \\ \hline 5.84 \end{array}$ 5.5th magn

014958 X Cassop X 5"

7 22 c 3, 2 d 9.5th magn
varied.

7 32 210504 R α Aquarii 5"
c 5, 1/3 10.5th magn
see chart.

195202 R R Aquilae 5"
c 5 var see C's chart

7 45 193311 R γ Aquilae 11th magn
5"

7 53 90th c 3, 1 c C's notation

7 50 193509 R ν Aquilae 5"
var ν < 11.5

Oct 31, 1904

A 13

2.2 June 5"
 $\alpha 0, 4 \beta$ same comp as the
 last time

A 21

032335

R Persei 5"

f.2 d 5, 0 e

Cir 74-II

180531

T Herculis 5"

A 25

f 2, 2 g

$$\begin{array}{r} A. 30 \\ A. 19 \\ \hline P. 24 \end{array}$$

200812

RU Aquilae 5"

A 35

~~Star~~ not surely seen.
 Star observed for now the last time.
 Probably the wrong one.

25 N

Lyrae

A 55

190933

R 8 Aquilae 5"

25 N

053068

N Camelopard 5"

9 05

b 2, 3 c

Cir 74-II

A. A

9 09

194632

X Cygni 5"

o 2, 3 f

$$\begin{array}{r} 7.52 \\ 7.23 \\ \hline 7.38 \end{array}$$

Oct. 31, 1904.

021403

0 Ceto

5"

9 13

E 5 var

9.69

Hagen's Var near 0 Ceto

(3) 1, 5- (2)

10.5

~~10.5~~ mag

9 15

015912 δ Arietis 5"

9 30

g 5 R at 74-11054920 α Orionis 5"

9 36

g 3, 0 or

10.48

10.56

10.52~~213843~~ γ Cephei 11.9

9 40

b2, 30

6.30

6.306.30213843 δ Cygni 5"

9 50

A 70

F 60

F 65

d 11.3 e est. 8.7

9 55

clouds

10 00

Too cloudy to
continue

10 10

Dismounted telescope
(16) (200) (4) (45)

November 1, 1904 (Tuesday)

126486 LC Ob HCD

6 45 Sky clear will mount telescope.

7 00 A few clouds in sky.

7 07 001754 T Cass. 5"
h 1, 3 k est 9.1 9.08
9.06
9.07

7 22 221722 RT Aquarii 5"
C 2, 2d 2.7
CS mov. Not

7 33 043065 T Camelopard 5"
C 4, 2d 2.2
Circ 4-II

7 40 043274 X Camelopard
C 2, 2f CS Notations
213244 W Cygni 9th Magn
File

7 45 C 4, 2 B

7 50 194048 RT Cygni 5"
6.76 C 6, 0d, 5e
6.42
6.23
6.47
comp for R Cygni used.

Nov 1, 1904

Looking for photog. of ~~R~~ T. W. Cygni.

5-2

clouds

2/3 A 43 S. S. Cygni 5-9

A 03

$$\begin{array}{r} f. 70 \\ p. 60 \\ f. 65 \end{array}$$
C 2, o. d. est #. 6
clear here

F 08

Rather cloudy

A 30

cloudy

A 53

Too cloudy to continue
now.

9 05

~~Dismounted telescope~~
some clearer

9 15

Still clearer.

9 30

Dismounted telescope, to
record for Mr. Wendell.
$$\begin{array}{c} (7) \\ \hline \end{array} \quad \begin{array}{c} (207) \\ (45) \end{array} \quad L. P. J.$$

November 2, 1904 (Wednesday)

JD. 6787 L.C. Obs. H.C.O.

6 30 Clear, mounting telescopes.

R Scute #19.

X645- $\begin{array}{r} 5.85 \\ 5.83 \\ \hline 5.84 \end{array}$ e 2, 13 f ~~est 5.5~~6 47 $\begin{array}{r} 6.24 \\ 5.95 \\ \hline 6.10 \end{array}$ R Coronae #19 c 3, 2 d est 6.16 57 023033 R Trianguli 5" $\begin{array}{r} 9.0 \\ \hline \end{array}$ g 2, 2 h cir 74-II.7 02 015254 U Persei 5" $\begin{array}{r} 7.5 \\ \hline \end{array}$ var 3 a cir 74-II7 05 2.30110 R Pegasi 5" $\begin{array}{r} 8.95 \\ 8.97 \\ \hline 8.96 \end{array}$ h 3, 1 l est 8.07 17 220613 γ Pegasi 5" $\begin{array}{r} 8.9 \\ \hline \end{array}$ 20.3 β

~~Dec~~ Nov 2, 1904

211614 X Pegasi 5"

25 N~~20147~~

201647 N Cygni 5" varred

9 2, 2 h $\frac{902}{903}$
904

Recording at 15" till 9:10

9 20 now pretty hazy & cloudy

213843 S P Cygni 5"

 $\frac{A. 50}{A. 30}$
P. 40

C O. 3 d Est 8.5

9 27

9 45 Too hazy & cloudy to continue
so dismounted telescope(8) (215) L.P.P.
(11) (46)

Nov. 3, 1904 (Thursday)

10 55 - Cleared near 9 o'clock but I
recorded at 15" telescope so no
observing was done by me

Nov 5, 1904 (Saturday)

JD 6790 L. E. Alb. H. C. C.

6 45 Starting charts,

6 53 Sky clear; mounting telescope.

7 07 $\begin{array}{r} 6.05 \\ 5.93 \\ \hline 5.99 \end{array}$ R Scute ~~fil~~ 2 f Est 6.0

213244 W Cygni ~~fil~~

7 09 25, 1-2 B

7 10 $\begin{array}{r} 021403 \\ \hline 9.69 \end{array}$ O Cete 5" Est 9.7 —

7 12 Hagen's Var. 5"
(1) 1 var

7 19 $\begin{array}{r} 194632 \\ 7.23 \\ 7.02 \\ \hline 7.12 \end{array}$ X Cygni 5" Est 7.1
200938 R Cygni 5"

7 24 $\begin{array}{r} 7.20 \\ 7.05 \\ \hline 7.12 \end{array}$ b 3, 2 c Est 7.1
varied.

Nov. 5, 1904

213843 S S Cygni 5"

7 28 $\frac{880}{870}$
 $\frac{875}{870}$ d2, 2e A.8

10 45 Recording at 15" till 10:30
 then dismantled telescope

(7) (222) P.P.
 (46)

Nov. 7, 1907 (Monday)

AD-6792 LQ 106 HCO.

10:15-10:30 Starting charts

10 40

Mounted telescope for all night observing.

10 46

054920 U Orion 5"
g 3, 1, 210.48
10.46
10.47

10 56

064030 X Gemini 5"
d 3, 3 e 9th

11 02

070122 R Gemini 5"
h 3, 2 m5.94
5.67
5.80

11 22

073723 N Gemini 5"
h 3 m < 11.0 at 74.7

11 27

074323 T Gemini 5"
d 4, 3 e 2.0 at 74.15

X 11 35

074922 U Gemini 5"
h 3 m < 11.5

Nov. 7, 1904.

071713 V Gemini 5"

11 44 h 3, 3 k 10.8

74-II

065111 Y Monoc. 5"

33 var

12th Magn

7 50

Var surf. of green est = above

063308 R Monoc 5"

12 00

B 4 var

11th Magn072708 δ Can Min 5"

12 04

f 2, 2 g $\frac{2.64}{2.59} = 2.64$ Est 8.707⁰³~~30~~10

12 08

R Can Min 5"

g 2, 2 h $\frac{9.5}{9.5}$ 74-II
var real.

070109 V Can Min 5"

12 12

d 3, 3 e

photo Not

Nov. 7, 1904.

12 22 061702 V Monoc 5"
9.5 f 3, 29 74-II

12 30 065208 X Monoc 5"
 d² 4, 2 d photos not
 5th Magn.

12 45 072411 T Can Min 5"
9.8 k 5-V cir 74-II

12 55 073508 U Can Min 5"
 b 3, 2 c 9.2 74-II

13 02 093934 R Leo Min
6.69 d 2, 2 e 7.2
7.00

13 07 094211 R Leonis 5"
6.5 2 2, 2 t
6.35
6.75

Nov. 7, 1904.

081112 R Cancri 5"

13 14

h 4, 2 l
est 2.5
A. 46
P. 40
F. 43

081617 V Cancri 5"

13 20

h 2, 2 l est 2.0
9.03
A. 24
P. 28

083019 U Cancri 5"

13 26

10.3 l 3 m cir 74-11

084403 S Hydrae 5"

13 30

h 3, 2 k
9.74
A. 64
P. 71

085120 T Cancri 5"

13 36

2.1 - e 11.3 f cir 74-11

090425 W Cancri 5"

14 00

c 4, 2 e photo 1108

Nov. 4, 1904

095421 ✓ Leonis 5" 74-4

14 15 var N. S. es N 40.5

14 25 some haze ocld. in N & NE

14 35 Too hazy to continue to
advantage.

14 50 Closed up for night.

(20) (242) L.P.P.
(5) (51)

Nov. 8, 1904 (Tuesday)
 JD 67119 RC Ob LCC

6 38 ~~134428~~ RC coronae ~~FLG~~
 $\begin{array}{r} 6.14 \\ 5.95 \\ \hline 6.00 \end{array}$ c 2, 2 d ~~est 6.1~~

~~184205~~ RC scuto ~~FLG~~
 $\begin{array}{r} 6.05 \\ 5.93 \\ \hline 5.99 \end{array}$ c 4, 2 f ~~est 6.0~~

Very clear mounted telescope

~~235782~~ V Capric FLG

6 52 $\begin{array}{r} 6.50 \\ 6.35 \\ \hline 6.42 \end{array}$ b c
 c 4, 1-2 d

~~201121~~ RT Capric 5"
 a" 5, 2 b'

Juno 5"

(1) 2, 3 (2) see chart SDM

212814

V Capric 5"
 Cir 74-II

~~2~~ 160

k 2, 3 b

7 19

Nov. 8, 1904

123961 δ Urs. Maj. 5"
$$\begin{array}{r} 9.13 \\ 9.12 \\ \hline 9.12 \end{array}$$
 23.1 h Est 9.1

021024 R. Arietis 5"

$$\begin{array}{r} 10.35 \\ 10.07 \\ \hline 10.28 \end{array}$$
 3.2 m Est 10.3
15337 δ Urs. Min. 5"

77 b & 3 a photos not

$$\begin{array}{r} 8.80 \\ 8.82 \\ \hline 8.81 \end{array}$$
 R. Lynx 5"
e 2, 2 f Est 8.8
024217 γ Arietis 5"b 2.2 g 9.1 74-4191717 γ Sagittae 5"
$$\begin{array}{r} 8.9 \\ \hline 8.9 \end{array}$$
 d 3.2 e 74-4

New Star.

235715 W Ceto 5"

A 04 a"4.2a' CS 1160

A 09 001809 S' Ceto 5"
 $\begin{array}{r} 11.77 \\ 11.44 \\ \hline 11.60 \end{array}$ p 3.32 est 11.8

A 15 022813 U Ceto 5"
 $\begin{array}{r} 7.55 \\ 7.60 \\ \hline 7.58 \end{array}$ d 1.3e Est 7.6

A 18 213843 S' S' Cygni 5"
 $\begin{array}{r} 9.09 \\ 9.42 \\ \hline 9.50 \end{array}$ f 2.2g Est 9.45

A 28 214024 R R V Regasi 5"
 L 3.32

A 35 215934 R T Pegasi 5"
 B 3.4x

Nov 8, 1904.

054715 - Tauri 5"

f 3, '9

f ~~52~~ 48

see Not. of Z Tauri

054615 Z Tauri 5"

f 53

g 5 N es rotation

202539 RW Cygni 5"

f 58

cz 3 d

RT Cygni 5"

9 00

$$\begin{array}{r} 662 \\ 6.53 \\ \hline 6.58 \end{array}$$

dz 2 e Not. of R Cygni

T Cephei 5"

9 05

$$\begin{array}{r} 9.75 \\ 9.70 \\ \hline 9.78 \end{array}$$

m 2, 4 m Est 9.7

021403 o Ceta 5"

9 10

$$\begin{array}{r} 9.59 \\ \hline \end{array}$$

E 4 var Est 9.6

Nov. 8, 1904.

Hagen's Van near 2 etc

9 12

(1) 5 var

R X Lyrae 5"

9 30

var not certainly seen
make good chart of region.

10 00

231308 5' Regulus 5"

$\frac{9.16}{9.01}$
 $\frac{9.01}{9.08}$

h 2, 2 k

2st 9.1

10 03

Observing list has been completed
for tonight so will stop work

10 15

Dismounted telescope

(25) (267)
(2) (53)

L. J. P.

Nov. 9, 1904 (Wednesday)

ID 6794 L.C. Ob. H.C.O.

7¹⁰ 35 Sky clearer now, so
sorted charts for observing

7 45 Mounted telescopes

180531 γ Hercules 5"
7 52 f 3.19 $\begin{array}{r} P.40 \\ P.29 \\ \hline P.34 \end{array}$

213843 δ Cygni 5"

8 05 h 3.0 k $\begin{array}{r} 10.28 \\ 10.43 \\ \hline 10.36 \end{array}$

021558 δ Persei 5"

8 15 h 2.2 k $\begin{array}{r} 10.12 \\ 10.48 \\ \hline 10.30 \end{array}$

024356 ω Persei 5"

8 22 l 3.1 m $\begin{array}{r} 10.5 \\ \hline \end{array}$

8 40 180565 ω Draconis 5"
~~z~~ var zj

Nov. 9, 1904.

180666 X Draco. 5"

8 45 Var not seen
seeing poor.

Y Draco. 5"

9 02 Seeing too soon & too hazy.

205030 24 X Cygni 5"

23, 3/3

9 22
seeing poor

202954 5' T Cygni 5"

9 42 var 2 X. ~~at 10 f~~ at 10 f

213753 RM Cygni 5"

10 02 ~~at 2 f~~ at 2 f

042209 R Tauri 5"

10 12 hr. 2.2 at 20

$$\begin{array}{r} 999 \\ 2.06 \\ \hline 2.02 \end{array}$$

Nov. 9, 1904

05-3326

RR Tauri 5"
var N.S.

10 25

10 45

Vars all observed, objective
somewhat faulty no
dismounted ~~telescope~~

(9) (276)
(2) (55)

L.P.R.

Nov. 11, 1904 (Friday)
 JD 6796 L.C. Obs. H.C.O.

7 00 Clear, mounted telescope

163137 W Herculis 5"
 7 30 do, 4 d $\frac{2.39}{2.14}$
 $\frac{1.26}{1.26}$

160100 RR Herculis 5"
 7 20 C 3, 5 e $\frac{84}{84}$

165637 R V Herc. 5"
 7 45 b 5, 3 d 10.5th mag.
 Region low obs. difficult

Parkhurst's Not. see chart

170627 RT Her. 5"
 7 52 2 4, 2 B C 5/Vat

204104 10.5th mag.
 A 05 W Aquarii 5"
 d 2 N photo Not.

Nov. 11, 1904.

221321 X Aquarii 5"
photos Not

A 20

a 7, 4 b 5th mag

A 36

210903 RR Aquarii 5"
g 5, 2 h 1st th

A 43

210504 R2 Aquarii 5"
x 2, 5 B 105th

9 02

193311 RT Aquilae 5"
c 4, 3 d ~~g 5, 2 h~~
10th

9 08

213803 N P Cygni 5"
m 4, n o, c o
11.30
11.32
11.37
11.33

9 12

194042 RT Cygni 5"
6.72
6.53
6.62
d 3, 2 e R Cygni Not

9 15

194434 RT Cygni
Var may be seen but cannot
surely identify it from this chart

Nov. 11, 1904

175458 T Draconis 5"

9 20

h 4, 3 k

74-11

105 th

190967 U Draconis 5"

9 28

3 4 var

108 th

192920 T Cygni 5"

9 45

 α 3, 2 β 108 th

093178

Y Dracon 5"

10 20

 α 5, 0 β 9 th

10 30

231425

W Pegasus

5"

h 3, 2 k

10 th11 th

74-11

10 45

Closed up

L.P.P.

(15)
(1)(291)
(56)

Nov. 12, 1904 (Saturday)
D6797 L.C.Cb. H.C.C.

6 35 184205 R Scuto ~~HLG~~
 $\begin{array}{r} 5.85 \\ 5.73 \\ \hline 5.79 \end{array}$ e 2, 4 f est 5.7.

6 39 235182 V Cephei ~~HLG~~
 $\begin{array}{r} 6.40 \\ 6.30 \\ \hline 6.35 \end{array}$ b 3, 2 c

6 47 001754 T Cass. 5"
 $\begin{array}{r} 8.86 \\ 8.88 \\ \hline 8.87 \end{array}$ g 3, 1 h est 8.9

~~658~~ 013338 $\frac{8.9}{\hline}$ γ Androm 5"
 a 2, 3 b 9th mag

7 04 015254 $\frac{7.7}{\hline}$ γ Persei 5"
 var 3 a cu 74-4

7 50 032043 γ Persei 5"
 a 2, 3 a' 8.5th

Nov. 12, 1904.

054974 V Camelopard 5th
 8 56 α 5, 2 β 95th

213843 N. N. Cygni 5th
 9 00 $\frac{11.62}{11.57}$ $\frac{11.60}{11.60}$ α 3, 20 est 11.5
 W Cygni ~~11.60~~

9 03 α 3, 3 β

054715 — Tauri 5th
 9 10 f 419 10th magn
 is Not.
 same Not a chart as for Z Tauri

9 30 clouds over sky

9 45 closed in $\frac{16}{307}$ L. P. P.

Nov. 14, 1904 (Monday)

J# 6799 R.C. Ob. H.C.

10 00 Starting clouds; sky very clear
and wind decreased greatly.

10 20 Mounted telescopes to obs. var.

213843 β δ Cygnus 5"

10 30 $\frac{11.97}{11.94}$ $\frac{11.96}{11.96}$ 0 2, 2 μ est 12.0

074922 η Gem 5"

10 36 h 5 η < 12

045514

R Leporis 5"

10 44 f 3, 39 9.2 air 74 - 4

050022 T Leporis 5"

10 50 d 4, 3 e 8.7 photog not

Nov-14-1904

2016 47 U Cygni 5"

10 55

h 3, 2 h $\frac{9.55}{9.31}$
9.43163 266 R Draconis 5"
10 59 55.09 $\frac{9.78}{9.56}$
9.67 ext 27

07 0122 R Cen 5"

11 12

 $\frac{9.58}{9.63}$
9.62 h 3, 00 ext 6

07 2708 S Can Min 5"

11 16

 $\frac{9.68}{9.59}$
9.64 f 2, 27 ext 27

R Leonis Min 5"

11 20

e 0, 5 g $\frac{7.09}{7.20}$
7.1411 30 Dint for now. After lunch
to watch for meteors.

Mars eye

17 00 d Leonis 6.5 3 Leonis 1.2
(19) (316) (1) (57) L. 11.10

Nov. 15, 1904 (Tuesday)

JD 6800 LCCb W.C.O.

> 30 Clear but some haze. Mounted 5"

f 10 ~~Jan 5~~ 5"

Var 3 No 3

see S.D. Mearns

2 hr 3.5" - 14°

Cbb diff. moon near region

194632 X Cygni F.H.

f 15 $\begin{array}{r} 5.83 \\ 5.79 \\ \hline 5.81 \end{array}$ h 1, 3 k Est S.D. m

V Cephei F.H.

233782

A 18 $\begin{array}{r} 6.30 \\ 6.20 \\ \hline 6.25 \end{array}$ b 2, 3 c mf 24 233815 R Aquarii 5" m $\begin{array}{r} 9.91 \\ 9.94 \\ \hline 9.92 \end{array}$

Est 9.9

234716 Z Aquarii 5"f 35 S.D. c' 3, 2 c 9th
photos Vol

Nov. 15, 1904

043065 T. Langelof 5'

8 45 9.0 b 44 2 c m031401

X Ceto 5' m

8 57

8.0 a 3, 2 c photog Not.

9 10

Quit for tonight headache
too intense to continue
$$\begin{pmatrix} 7 \\ - \end{pmatrix} \begin{pmatrix} 323 \\ 57 \end{pmatrix} \text{ P.P.}$$

Nov. 19, 1904

(Saturday)

JD 6804 L.C. Ob.

WCO.

7 05 Moon very bright & sky hazy to
 bright. Sorted charts & mounted.
 telescope

W

194632

X Cygni

7 30

$$\begin{array}{r} 5.5-6 \\ 5.5-5 \\ 5.5-5 \\ \hline 5.47 \end{array}$$

f 5.09 4h

FDR

est 54

21 32 44

W Cygni

FDR

7 34

X 4, 2/3

68W

7 45 18 55 31

T Hercules

5"

W

h 2, 2k

$$\begin{array}{r} 8.89 \\ 8.76 \\ \hline 8.82 \end{array}$$

024356

W Persei

5"

W

7 55

k 2, 2l

90Not sure of star k but fairly so.

Nov. 19, 190K

183378 δ Urs Min 5" m

p 06

7.8b 3, 3 α

photoq Not

181136 W Lyrae 5" m

p 25

b 3, 1 α 9.2

190967 U Draconis 5" m

p 32

B 2 var 10.5

235182

V Ceph

F19

A 35

6.40
6.30
6.35

b 3.20

m

200938

R Cygni

5" m

p 42

7.45
7.41
7.43c 2, 1 α Est 7.4

205817

X Delph

5" m

p 53

d' 2, 4 α 9.0

Nov. 19/1904

202539

RW Cygni

5^m

8 58

d 3, 1 e 2.7

varied

214024

~~X 2.2~~

RR Pegasi

5^m

9 18

B 3, 2 d 10.0

215934

RT Pegasi

5^mf 5 var 10.09 28 Var seen only long waiting &
L 0.73 not seen

220613

Y Pegasi

5^m

9 38

B 3 N

220714

RST Pegasi

5^m

9 48

B 3 N

cloud in North

62

Nov. 19, 1904.

10 03

231508 δ Pegasi 5" m
 d 2, 2 e $\frac{8.61}{7.94}$ Est 8.0

10 13

074323 τ Gemini 5" m
 d 4, 2 e $\frac{9.0}{7.1}$

10 16

074922 ν Gem 5" m
 N δ $\frac{u}{u}$

10 19

072708 δ Can Min 5" m
 e 3, 2 f $\frac{8.36}{8.28}$ Est 8.4
 $\frac{8.32}{8.28}$

10 30

Night pretty bad and obs
 difficult will quit now.

10 40

Dismounted telescope

(16) (339) L.P.O.
 (3) (60)

Nov. 21, 1904 (Monday)

D6806 L.C. Obs 1400

9 00 Clear now sorting charts
& mounting telescopes

194632 X Cygni ~~5.34~~

9 18 $\begin{array}{r} 5.36 \\ 5.35 \\ \hline 5.34 \end{array}$ f 3.2 g $\begin{array}{r} HZ9- \\ m \\ \hline \hline \end{array}$ Est 5.3

235182 V Caphei HZ9

9 22 $\begin{array}{r} 6.56 \\ 6.30 \\ \hline 6.40 \end{array}$ b 4.2 c $\begin{array}{r} m \\ \hline \hline \end{array}$ Est 6.4

093178 Ydraconis 5" m

9 37 $\begin{array}{r} H.5 \\ \hline \end{array}$ L 5.0 / 3
Ident. diff but certain -

23515 W Ceto 5"

9 52 $\begin{array}{r} 6.5 \\ \hline \end{array}$ a" 3 var $\begin{array}{r} m \\ \hline \hline \end{array}$

064030 X Gemma 5" m

10 00

dr 2, 2 e HZ 5" m

Nov. 21, 1904.

070310. R Can Min 5^h
m10 12 9.5 g 2, 2 h07350A U Can Min 5^h
m10 22 9.5 c 2, 2 d10 32 072411 T Can Min 5^h
m
h 3 u10 40 Sky now pretty clear but moon
near the field & further
observing rather impossible
tonight. Tried several regions
but could not identify the
same.

10 55 Dismounted telescope

(7) (345) L.P.P.
(1) (61)

Nov 25, 1956 (Friday)

640

sky some hazy
021403 0 C to 5"

650

9.59 E 4 var est 9.6

654

Hagen's Var near 2
(1) 3.1 (2)

700

184231(?) T Hercules 5"
m 2, 2 m
$$\begin{array}{r} 9.64 \\ 9.62 \\ \hline 9.63 \end{array}$$

sky more hazy

194632 X Cygnus + TR

707

f 0 - 59 $\frac{5.06}{5.05}$ est 5.0

235182 V Capher Hly

710

$$\begin{array}{r} 6.50 \\ 6.40 \\ \hline 6.45 \end{array}$$
 b 4.1 C est 6.4

213843 S W Cygnus 5"

714

$$\begin{array}{r} 12.07 \\ 11.84 \\ \hline 11.96 \end{array}$$
 0 2, 3 p est 11.9

hazy & clouds

Nov 25 1905.

02102X R. Arctus 5"
 7 25- $\begin{array}{r} 9.71 \\ 9.55 \\ \hline 9.63 \end{array}$ h 3.2 h Ent 2.6

21086A + Alpha 5"
 7 2A $\begin{array}{r} 8.98 \\ 8.98 \\ \hline 8.98 \end{array}$ h 2.2 h Ent 2.0

Nov Too cloudy & Moon up
 making sky very bright
 Dismounted telescope

(8) ~~67~~ (303) L.P.P.
 (—) (61)

Nov. 26, 1904 (Saturday)

JD 6811 22. Obs HCO

137
 5-20 $\begin{array}{r} 6.14 \\ 5.85 \\ \hline 6.00 \end{array}$ R Coronae #19
 c2, 3 d est 6.1

184205 R S'cuty #19
 5-23 $\begin{array}{r} 5.17 \\ 4.99 \\ \hline 5.08 \end{array}$ c2, 2 d

5-30 Stars in Sagittarius too low to
 in tops of trees to observe from
 my position.

160118 R Hercules 5"
 5-37 l2, 2 m $\begin{array}{r} 9.66 \\ 9.70 \\ \hline 9.68 \end{array}$

160625 RV Herc. 5"
 5-38 ~~l2~~ c3, 2 f

163137 W Herc. 5"
 5-57 f2, 39 $\begin{array}{r} 9.22 \\ 9.25 \\ \hline 9.04 \end{array}$

165631 RV Herc. 5"
 6-04 ~~l2~~ b4, 2 d

J. A. Park's Not

Nov. 26, 1904

170627 R T Herc 5¹¹6 12 10.2 d' 3, 3 d175519 R Y Herc 5¹¹6 18 c o var
Parkhurst Not. rec'd183308 X Ophiuchi 5¹¹6 32 25 a 3, 1 b141954 S Boole 5¹¹6 40 var o m surp o
about equal if seen
12.04 m o var

182228 ECP Var at 24° 18 h.

6 50 M. St. < 11.5

760150 R R Herc

6 58 A3 c 3, 1 d

Nov 26, 1906

191717 Tst Sagittae

5-4

7 of 2.9 cl 3, 2 e123160 Nst Vir Maj

5-11

7 15 — g 2, 2 h

$$\begin{array}{r} 903 \\ 902 \\ \hline 902 \end{array}$$

193509 RV Aquilae

7 25 — 2.5

B 4, 2 f see Cochart.

194632

X Cygnus N. eye

int 4.9

7 30 —

var 2 f H.A. 6

193209

R Cygnus

5-11

7 38 —

m 3, 2 o

$$\begin{array}{r} 844 \\ 942 \\ \hline 943 \end{array}$$

194648

R 7 Cygnus

5-11

7 40 —

l 4, 2 f

$$\begin{array}{r} 713 \\ 683 \\ \hline 698 \end{array}$$

complete of R Cygnus used

Nov. 26, 1904.

001755 - T. Cassiop 5"

7 46

$$\begin{array}{r} 8.76 \\ 8.78 \\ \hline 8.77 \end{array}$$

g 2, 2 h 20.00

021558 S. Persei 5"

7 50

h 2.4 k

$$\begin{array}{r} 10.12 \\ 10.28 \\ \hline 10.20 \end{array}$$

203816 S. Delphin 5"

7 56

$$\begin{array}{r} 10.0 \\ 10.0 \\ \hline 10.0 \end{array}$$

k 0.4 l

74-11

181136

W. Lyrae 5"

8 00

$$\begin{array}{r} 9.6 \\ \hline \end{array}$$
 a 3.3 d

043274 X Camelops 5"

8 30

$$\begin{array}{r} 9.0 \\ \hline \end{array}$$
 a' 3.3 b
see above

054974 V. Camelops 5"

8 35

$$\begin{array}{r} 9.8 \\ \hline \end{array}$$

B 5.2 f

053068 S. Camelops 5"

8 42

$$\begin{array}{r} 9.5 \\ \hline \end{array}$$

a 4.2 b

Nov 26 1904

20110 R Pegasi 5"

$$\begin{array}{r} 10.03 \\ 9.95 \\ \hline 10.05 \end{array}$$
 9 10 02, 1 p est 10.0

$$\begin{array}{cc} (25) & (37A) \\ (1) & (62) \end{array} \quad L/P.$$

Nov. 2. 1904 (Monday)
~~6813~~ R C 002 HCO

7 20 194632 X Cygni eye
 $\begin{array}{r} 4.76 \\ 4.66 \\ \hline 4.71 \end{array}$ e 1. + f 2st 4.6

7 30 193509 RV Aquilae 5
 $\times 3, 2 \alpha' \underline{9.0}$

7 50 211722 RT Aquarii 54
 $\underline{9.5} \alpha 3, 1 e$ is prob. Not.

8 00 20006 T Delphinus 54
 $n 3, 2 \alpha \underline{11.5}$

180666 X Draconis

8 15 not sure which star
 is there.

8 20 180365 W Draconis
 $\underline{11.0}$
 f 4.0 f.

Nov. 28/1904

17565K V Draconis

8.33

Var. N.S. $\angle 11.5$

190529

V Lyrae

5th

8.45

22, 23

10th

192928

TY Cygni

12th

8.58

P₃, 22

191358

+ Z Cygni

11th

9.08

34, 35 10.5

074922

V Gemini

5th

10.02

62, 44

9th

see Hapra

070122

R Gemini

5th

8.15

$$\begin{array}{r} 29.5 \\ 29.2 \\ \hline 9.94 \end{array}$$

03.34

est 99

74

Nov 22, 1904

071713 Venn 59

10

~~20~~
236422 AP

51 Can num. 5

10 28

e2, 3. f $\frac{A. 26}{D. 18}$
L. 22

Tree Cygnus 154342

10 35

4423 11.8

(13) (391)

(1) (63)

L.P.P.

Nov. 30, 1904 (Wednesday)

JD 6815 L.C. Alt. 400

7 50

Clear now mounted
telescope

194632

X Cygni eye

A 03

d 2, 2 e

$$\begin{array}{r} 4.61 \\ 4.46 \\ \hline 4.58 \end{array}$$

163266

R Draco 5"

A 09

g 2, 3 h

$$\begin{array}{r} 9.76 \\ 9.76 \\ \hline 9.76 \end{array}$$

021403

o Ceto 5"
9.59 2 4 var set 9.6

A 12

A 14

Hagana Var near o 5"
(1) 4, 1 (2)

024217

T Arietis 5"
f 5.09
$$\begin{array}{r} 9.3 \\ \hline 9.3 \end{array}$$

A 20

A 24

clouds now
20 1647 u Cygni 5"
h 3, 2 l
$$\begin{array}{r} 9.81 \\ 9.58 \\ \hline 9.70 \end{array}$$

76

Nov. 30, 1904

A 25 Clear again

213843 N N Cygni

5"

A 28

50, 4 p

$$\begin{array}{r} 11.71 \\ 11.74 \\ \hline 11.76 \end{array}$$

213753 R N Cygni 5"

A 40

50, 0 d, 4 e 4.5More clouds over sky
again.A 48 Too cloudy at present to
~~continue~~

$$\begin{array}{c} (8) \quad (399) \\ \quad \quad (63) \end{array} \text{ L.P.P.}$$

Dec 1, 1904 (Thursday)

JD 6816 LCCob- 18 CO.

6 05 Clear sky

6 18 184205

R Scuto

b 3, 2 C

$$\begin{array}{r} 5.12 \\ 4.77 \\ \hline 4.94 \end{array}$$

194632

X Cygn

eye

6 28

d 3, 1 e

$$\begin{array}{r} 4.71 \\ 4.56 \\ \hline 4.64 \end{array}$$
1805-31
184231

T Herc

5"

6 34

m 3, 20

$$\begin{array}{r} 10.12 \\ 10.20 \\ \hline 10.16 \end{array}$$
203903

V Aquarii 5"

6 40

g Her

11.5

204402

V Aquarii

5"

6 49

d 3, 1 e

8.5

185737

RT Lyrae

9"

7 00

L 3 V

~~1909~~ Dec 1, 1904

190925 δ Lyrae 5"

23 N

191637 η Lyrae 5"

3 stars near position of Var

$\begin{array}{c} d \\ \vdots \\ c \cdots a \\ \vdots \\ b \\ \vdots \\ \delta \end{array}$

b 3 a 3 d 4 c = var,

which is var? a, b, or c?

210812 R Equilei 5"

7 32 \times 0 var 10.8 th

see C's chart

201130 δ X Cygni 5"

7 50 Var η δ

Dec. 1, 1904

205030 N X Cygni 5"

7 58

1/3, 4f 9.3233415 R Aquarii 5"A 02 2.79
2.71 m 4, 1 m Est 9.8
2.80234716 Z Aquarii 5"

A 05

c 3.0 d photos Nov

022813 N Ceto 5"

A 10

2.78
2.70 d 3.2 e Est 7.7
2.74021403 e Ceto 5"~~Est~~9.44 E 2.5 var Est 9.4

A 13

Hagen's Var near 0

A 15

1) 4.0 (2)

031401 X Ceto 3"

A 18

c 3.2 d

Dec. 1, 1904

Z Persei 141902
5"

8 50

Var just seen & no more
too faint to obs. for corr. to
ephemeris at the present
time

055353 Z Aurigae

9 03

x 4, 2/3

10.1 5"

235742

V Cephei HL9

9 05

6.56
6.30
6.48

b 4 2 c Est 6.4

213244 W Cygni HL9

9 08

var 2 d

6.2

074922 U Gem 5"

9 12

b 4, 1 d 9.3

231425 W Pegasi 5"

x 5 u

9 22

Breen

look up ledger of prev.
Obs.

Dec. 1, 1904

9 32 235715 Wata $\overline{E}78$
 $a'' 4.4a$ 6.6

9 38 053000 γ Orionis $5''$
 $g 2, 4h$ 10.5 $74-II$

9 43 052404 δ Orionis $5''$
 $b 5$ N < 11 $74-II$

10 18 001726 γ Androm $5''$
 $02, 1f$ $est 10.2$
 $\frac{10.29}{10.20}$
10.84

10 28 045307 R Orionis $5''$
22 $b 3, c 1, 4d$ $74-II$

10 38 050003 V Orionis $5''$
27 $e 2, 2f$ $74-II$

11 03 093734 R Leo Min
 $g 2, 2h$ $est 29$
 $\frac{7.90}{7.83}$
7.92

Dec. 11, 1904

R Leonis 5"

11 07 $\begin{array}{r} 9.38 \\ 9.14 \\ \hline 9.26 \end{array}$ u 4, 0 u

050022 T Leonis 5"

11 15 f 4, 1 g ^{9.5} photos not

045514 R Leonis 5"

11 22 f 4, 2 g ^{9.3}

02334 Z Persei 5"

11 27 ^{1.88} e 8, 3 f
see C's chart
for notation

11 40 ^{1.68} e 1, 5 f

11 56 ^{1.44} c 4, 1 e

12 08 ^{1.29} c 3, 3 e

Dec. 1, 1904

St. Urs. Mag. 5"

1212

h. 3 h $\begin{array}{r} 9.32 \\ 9.44 \\ \hline 9.32 \end{array}$

074922 U. Gen. 5" 2nd Obs

1215

b. 3, 1 e $\begin{array}{r} 2.2 \\ \hline \end{array}$

Z. Persei again

1228

c. 2, 3 e 1.24

1240 End for tonight

$$\begin{array}{cc} (34) & (433) \\ (5) & (6A) \end{array} \quad \begin{array}{c} \sim \\ \text{L.P.P.} \end{array}$$

Dec. 2, 1904 (Friday)

200346 SW Cygni 5^h

7 16 ~~a 4~~, b 3, 0 c 0.2

7 24 ~~a 4~~, b 2, 1 c 0.1

Cloudless South

023033 R. Traug 5^h

7 35 ~~m 1, 3 c 10.7~~
Clear

SW Cygni 5^h

7 53 b 2, 3 c 0.6

8 08 a 3, 1 b 0.3

8 26 a 2-3, 2 b 0.2

Dec. 2, 1904.

19463 - γ Cygni. ~~5~~ eye7 53 $\begin{array}{r} 461 \\ 466 \\ \hline 464 \end{array}$ dr, oe Ent 4.5200938 R δ Cygni ent 7.28 07 $\begin{array}{r} 7.30 \\ 7.25 \\ \hline 7.21 \\ 7.25 \end{array}$ b 4.0 c, 3 d15337A δ Ura Min. 5"

8 10 7.5 b 0.3 a photos 108.

202539 RW Cygni 5"

8 18 ± 7 e 0.3 f 74-44

190967 U Deneb 5"

A 24 $\begin{array}{r} 10.4 \\ \hline \end{array}$ 23, 23

f more est lookup.

Lookups obs. of R δ Cygni
 they should be rejected
 as wrong star was marked
 on the var

Dec. 21 1904

220613 If Pegasi 5"

If star is var then

f 4.1 p

9th

9 10

9 30 074222 Gem 5"

d 2, 3 e

9.6T Gem Hugan chart

074323

9.1

9 35

d 3, 2 e

70-15

065111

y Monoc. 5"

9 48

B 2 N

063304 R Monoc 5"

9 55

B 2 var 10.9

073723

S' Gemini

10 15

h 3 N

70-15

Dec. 2, 1904

070109 ~~7~~ ✓ Can Min. 5-810 25 9 5.1 h 11.3h added by C. tonight &
near the var.10 35 Closed up. Clouds
thick.(16) (449) L.P.P.
(2) (70)

Dec - 7, 1904 (Wednesday)
JD 6822 L.C. Obs. 1400

50 Clear now

213443 S' S' Cyg 5"

1197
 1194
 1196

02.2 p 11.9

163266

R Drac 5"

1196
 1196
 1196

03.2 h 11.9

193509

R V Aquilae 5"

03.2 x'

201607

M Cygni 5"

7 40

10.26
 10.19
 10.24

02.20

193449

R Cygni 5"

1196
 1196
 1196

02.2 m

194018

R T Cygni 5"

03.2

Compton of R.

7 50

203
 683
 1093

Dec. 7, 1904

235715 W Ceti 5 - "
 203 a" o van 6.5

808 Q Peg 200110
 f 2, 39 $\begin{array}{r} 10.28 \\ 10.24 \\ \hline 20.52 \end{array}$

8:12 021403 0 Ceti
 delta 2, 3 epsilon $\begin{array}{r} 9.02 \\ 8.89 \\ \hline 8.96 \end{array}$
 ariels
 8:17 024217 ~~W Ceti~~
 f 2, 39 9.8

8:32 74922 W Gem
 g 3, 2 h 10.5

8:36 280 L Persei
 b 3, 2 d 0.30

8:44 220412 J Pegasi
 f 5, 19 9.8

8:46 194632 Chi Cygni. eye
 c 3, 2 d $\begin{array}{r} 4.34 \\ 4.21 \\ \hline 4.28 \end{array}$

8:48 072708 S Can. Arm.
 e 0, 4 f. $\begin{array}{r} 2.06 \\ 2.02 \\ \hline 2.07 \end{array}$

90

Wed, Dec 7, 1904.

70122 R Gen

8:50

10.42

10.56

10.49

f 2, 2 g

Est 10.5

8:53

Z Persei.

b 4, 1 d

0.40

9:03

064030

X Gemini

c 3, 2 d

9:08

210868

T Cephrei

h 2, 2 d

Est 9.0

9:20

054974

V Camelof

gamma 3, 4 delta

9:30

Z Persei.

d 3, 2 f c

0.40

9:40

Hazy & Cloudy S of Zenith.

9:46

15³ 372

S Wrs. Tim.

b 0, 3 a

7.5

Obs in North.

10:55

Sov cloudy

10:15

closed up

(22)

(471)

—

(70)

L. P. P.

Dec 9, 1904 (Friday)
 JD 6824 LC. Ab. H.C.

- 8:00 Sky clear.
- 8:05 194632 Chi Cygni eye
 C4, 1d $\begin{array}{r} 4.44 \\ 4.31 \\ \hline 4.37 \end{array}$
- 8:10 074922 U Gemini
11.0 h4 Var b not seen
- 8:15 235182 V Cephei J.G.
 b2, 3C $\begin{array}{r} 6.30 \\ 6.20 \\ \hline 6.25 \end{array}$
- 8:17 Est. of seeing scale 1 to 5 = 2, 4, 3.
- 8:24 W Cygni J.G.
 Est α 4, 2 β $\begin{array}{r} 6.5 \\ \hline \end{array}$
- 8:30 213⁸42 S S Cygni Est 11.9
 02, 2 β $\begin{array}{r} 11.87 \\ 11.82 \\ \hline 11.26 \end{array}$
- 8:35 213753 RU Cygni 74-II
 e3, 2 β $\begin{array}{r} 11.9 \\ \hline \end{array}$
- 8:50 052036 Ul Aurigae
 Var not identified. In also of faint chart
- 9:11 041619 J Jauri . 9.4
 C4, 2d $\begin{array}{r} 9.4 \\ \hline \end{array}$

Fri Dec. 9, 1904

9:20

053326 RR Tauri
f 5, N

065530 R 3 Gem.

9:32

Gamma 4 Var
make better chart~~11.5~~ ~~7.11~~

9:57

061702

V Monoc.

x 2, 2a 7.0 74-~~II~~

10:03

070310 R Can Min

x 95 Var. 9.8 74-II

10:07

072708

S Can Min

e 0.5 f

$$\begin{array}{r} 7.06 \\ 7.25 \\ \hline 8.02 \end{array}$$

10:09

073508

U Can Min

e 2, 3d

9.6

10:12

071763

V Gemina Min

a 6, 3b

9.0

10:17

Seeing 4-3-4.

10:25

081112 R Canceri

02, 1f

est 9.8

$$\begin{array}{r} 9.75 \\ 9.83 \\ \hline 9.79 \end{array}$$

Dec 9, 1904

081617 V Cancri

11 10 $\begin{array}{r} A. 9.6 \\ A. 6.5 \\ \hline 8.76 \end{array}$ g 2, 2 h Est 87

083019 U Cancri

11 15 m 3, 2 m 10.4

084803 S Hydri

11 22 m 2, 3 m $\begin{array}{r} 10.86 \\ 10.74 \\ \hline 10.80 \end{array}$

U Cephei

11 30 e 4, 2 f 7.75

11 48 e 4 0.5 f 7.22

12 11 f 3, 2 g 8.20

085120 T Cancri

12 00 d 2, 3 e 8.7 74-II

090425 W Cancri

12 08 Var not seen

94

Dec 9, 1904

U. Cephei

12 20

f 4.19 f. 30

095421 V Leonis

12 18

f 5 - N

12 41

U. Cephei
g 3, 1 h f. 7013 00 Too hazy & cold
to continue

$\begin{pmatrix} 4 \\ 2 \end{pmatrix}$ $\begin{pmatrix} 3 \\ 1 \end{pmatrix}$	$\begin{pmatrix} 5 \\ 4 \end{pmatrix}$ $\begin{pmatrix} 3 \\ 1 \end{pmatrix}$
--	--

12 30

R Leonis 971
x 3, 2 fcopied from memory Dec 10, 1904,
L. P. P.

Dec. 14, 1904 (Wednesday)

JD 6829 L.C. O. B. 1800

11 00 Clear, to work latter part of night

U cephei 5"

11 26 .695 e 2, 2 f 7.76

11 45 .698 f 2, 2 g A. 20

11 57 .706 f 4, 1 g A. 35

12 12 .717 g 2, 3 h A. 61

12 32 .731 g 4, 1 h A. 41

12 53 .745 h 2, 3 h 9.08

13 05 .753 h 3, 1 k 9.24

13 00 .833 g 4, 1 h A. 41

15 19 .847 g 2, 2 h A. 66

15 32 .856 f 3, 1 g A. 30

Dec. 14, 1904

021403 Q Ceto 5"

11 40 $\begin{array}{r} 868 \\ 872 \\ \hline 870 \end{array}$ f 1, 1 δ Est 8.7

11 50 045574 R Leporis 5"
 $\begin{array}{r} 92 \\ \hline \end{array}$ f 3, 2 g 74-4

11 55 050022 T Leporis 5"
 $\begin{array}{r} 10.6 \\ \hline \end{array}$ δ h 2, 3 k Photo 108.

12 ~~22~~ ²² 071201 RR Monoc 5"

Var not identified

12 28 073612 U Puffis 5"
 $\begin{array}{r} n 2 \\ \hline \end{array}$ 74-4

8 12 40 09424 R Leonis
 $\begin{array}{r} 994 \\ 992 \\ \hline 993 \end{array}$ f 3, 2 f Est 9.9

12 45 085008 T Hydrae
 $\begin{array}{r} 8.11 \\ 8.01 \\ \hline 8.06 \end{array}$ d 2, 2 e Est 8.1

Dec 14 1904

12 5-5 Seeing = 3, 4, 4.

090425 W Camen 5-11

13 8 2 11.5 L₂ 3k photos not082405 RT Hydrea13 12 ab. 4b 11.0 photos not

13 40 10481K W Lewis

n 2 n { 11.5

110506

J Lewis

13 47

f 3 3 g 10.4

1 115919 R Comae

3 57

11.96
11.96
11.96

n 2, 2 2

Est 11.2

Dec 14, 1904

123307 R Virgo

14 25 d 2, 2 $\frac{7.07}{6.89}$ ~~est 7.0~~
6.98

124606 R Virg.

14 35 g 2, 2 $\frac{7.92}{7.78}$ ~~est 7.9~~
7.85

Vesta 5"

2 3, 3/3

see the chart
12 h + 60

14 47

120905 T Virgo

14 58

m 2 n

< 10.8

122532 T Can Ven

15 07

n

15 12

143227

R Bootis

e 0, 4 f

 $\frac{7.88}{7.84}$
7.865" ~~est 7.8~~

Dec. 14 1904

R Coronae HL?

e 0, 3 d	5.94
	5.85
	<u>5.90</u>

125 17

122803 y Virg. 5"

1529

m 5 u < 10. A

U Cephei Cont from p 95

15
~~14~~ 47 .866

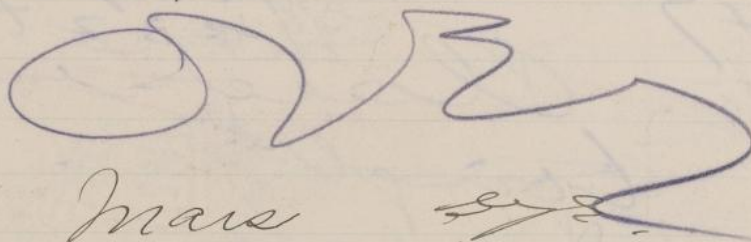
f 3, 2 g f. 25

16 12 .883

f 0, 5 g A. 05

16 26 .893

e 3, 2 f 782



Mars
 Mars 3 & Virginis
 copied from memory Dec. 16, 1904

15125

Dec 14, 1904

134440 R Can Ven
15 44 p 3 n < 10.7

124418 R Cane
15 52 e 3, 2 f Est 10.6
10.7
10.6
10.52

132202 V Virgins 5
16 22 n 3 n < 11.0

132706 V Virgins 5
16 32 h 2 k Est 10.5
10.62
10.43
10.52

157731 V Coronae

16 37 10.76
10.99 p 5, 1 g Est 10.9
10.88

16 47 R Hydrae
10.34
10.29 e 3, 2 t Est 10.3
10.32

16 55 Closest up for
to night

Seeing poor ~~all~~ throughout
last part of the night
high cold making obs diff.
L.P.P. (32) (527) P.P.

Dec. 16, 1904 (Friday)

JD 6831 LCCB LCCO.

> 10 Haziness 3. Moon rather bright.
ECP scale.

Had to repair finding of 5" telescope

> 30 Seeing 3, 4, 4. PS from scale.

> 35 194632 X Cygni ~~HL~~
C 3, 2 d Est 4.2

> 37 213247 W Cygni ~~HL~~
var 3 d 6.1

021403 e Ceto 5"
moon near

> 43 190967 re Diaco 5"
2 4, 1 B 10.5

> 48 200938 RSCygni 5"
var real
Est 7.1

> 55 202539 RW Cygni 5"
d 4.2 e

A 00 var real

Dec 16, 1904.

205030 U X eggum 5"

A 12 $\frac{10.0}{}$ f 3 var

1.63172 R Urs hui 5"

A 22 $\frac{2.82}{2.76}$
 $\frac{2.77}{}$ e 2, 2 f int 22022426 R Homanis 5"
23, 1/3

P. 35

113972 Z Draco 5"

A 55 .580 b 2, 2 c .20
see chart

9 23 .599 b 40 c .40

9 41 .612 c 3, 0 d .70

10 02 .626 d 2, 2 e .88

10 15 .635 d 3, 0 e, 2 f 1.03

10 34 .649 e 3, 1 g 1.32

10 48 .658 e 5, 9 z 1.52

Dec. 16, 1905.

Rst Tauri5¹¹

9 08

~~2.8~~ c 3, 3 d~~05~~

054615 Z Tauri

see chart of Z Tauri

5¹¹

9 12

var Nst 49

074323

T Gemini

5¹¹

9 14

~~2.9~~ d 3, 2 e

214024 R R. Pegasi

5¹¹

9 20

10.2 E 3, 0 7

072708

S Can. min

X 3, 5-2

9 33

2.16
2.17

e 1, 3 f

est 2.2

063308

R R. Ursa

5¹¹

9 47

093934

R Leo min

5¹¹

9 51

2.67
2.59
2.63

k 2, 2 l est 2.7

X Ceto

6¹¹~~031401~~
031401

9 58

m 2, 2 l 105th

10 00

Est seeing = 3, 3 4

Dec. 16, 1904

N. H. Thomas

10 25 Cannot identify

$$\begin{pmatrix} 23 \\ 11 \end{pmatrix}$$

$$\begin{pmatrix} 55.0 \\ 81 \end{pmatrix}$$

R.D.

Dec. 28, 1904. Wednesday

196843 L.C. OB H.C.

> 00 Clear cooler & windy night.

202817 2 Daph 6"

20 32 +15.5-

26 00

5 2 A

will use 5" instead.

193649 R Cygni 5"

> 20

223
222
7.22

90.3 h est 7 2

194058 R T Cygni 5"

9.5-

> 20

fo. 39 air 74-4

194348 T U Cygni 5"

11.5

> 33

34.45 is not

194532 R Cygni 5" Est. 4.3

4.54

4.21

4.32

> 30

> 40

Slump 2.44

Dec 28, 1904

201647 U Cygni 5"

7 46

$$\begin{array}{r} 10.46 \\ 10.29 \\ \hline 10.38 \end{array}$$

n 3.25 Est 10.4

213743

S Cygni 5"

7 50

n 3.30

$$\begin{array}{r} 11.62 \\ 11.47 \\ \hline 11.54 \end{array}$$

220412

T Pegasi 5"

98 g 2.3 h

8 05

74-4

230110

R Pegasi 5"

8 12

$$\begin{array}{r} 10.74 \\ 10.69 \\ \hline 10.72 \end{array}$$

g 2.2 h

Est 10.7

021403

o ceto 4th

8 17

$$\begin{array}{r} 8.22 \\ 8.28 \\ \hline 8.25 \end{array}$$

3 2.1 f 2.25

8 26

233811

$$\begin{array}{r} 9.24 \\ 9.02 \\ \hline 9.13 \end{array}$$

R Aquarii 5"

h 3.2 h Est 20

234716

Z Aquarii photog

8 30

9.2

C 3.3 e

012502

R Pictoris 5"

8 38

$$\begin{array}{r} 12.13 \\ 12.06 \\ \hline 12.10 \end{array}$$

a 3.0 t Est 12.1

Dec 28 1904

9 08 021024 Rannet 5"

$$\begin{array}{r} 779 \\ 2.93 \\ \hline 7.86 \end{array}$$
 do, 3e est 7.8
 clouds

9 16 163267 R Draco 5"

$$\begin{array}{r} 9.70 \\ 2.60 \\ \hline 9.65 \end{array}$$
 k 3, 2l est 9.7

9 20 133378 S Ursae 5"

$$\begin{array}{r} 2.7 \\ \hline 2.7 \end{array}$$
 b 2, 2a
 clouds photog.

9 27 123961 S Ursae 5"

$$\begin{array}{r} 9.70 \\ 2.63 \\ \hline 9.66 \end{array}$$
 f 2, 2g est 9.6

9 32 123160 T Ursae 5"

$$\begin{array}{r} 9.7 \\ \hline 9.7 \end{array}$$
 ho W
 clouds windy

9 45 Deep 2341

9 52 09424 R Leon 5"

$$\begin{array}{r} 10.42 \\ 10.35 \\ \hline 10.38 \end{array}$$
 z 3, 1 & est 10.4
 Very windy

Dec 24, 1904

013338 γ Androm 5"

10 03

9.4 b 3, 2 e CS Not015254 η Persei 5"

10 20

 $\begin{array}{r} 9.50 \\ 9.56 \\ \hline 9.53 \end{array}$ e 0.3 f Est 9.5

10 30

Clouds

10 40

clouds

 $\begin{pmatrix} 19 \\ 1 \end{pmatrix} \begin{pmatrix} 569 \\ 22 \end{pmatrix} L.P.P.$

December 29, 1904 (Thursday)

L.C. Obs - JD 6844 H.C.O.

5 00. Sky clear but twilight strong

5 45 \pm seeing = 3.3, 4

5 30 clouds in W & NW.

5 40 193509 RV Aquilae 5^m
 $\angle 5, 2 \times 1 \quad 9.0$

5 48 193311 RT Aquilae 5^m
 $\text{N.S.} < 10.5$

213843 56 Cygni 5^m

5 52 $m 3, 30 \frac{11.62}{11.47} \underline{11.54}$ Est 11.5

5 56 194632 57 Cygni 4.3^m
 $\frac{4.34}{4.34} \underline{4.34}$ Est 4.3

6 06 203816 58 Delph 5^m
 $\frac{11.0}{11.0} m 2.1 m \text{ cut 4.5}$

Dec 29, 190K

205923 R Vulpec 5'

6 12

$$\begin{array}{r} 10.25 \\ 10.01 \\ \hline 10.13 \end{array}$$

m 2.2 p est 10.2

181136 W Lyrae 5'

X/6 20

e 5 N.S.

6 30

190933

R Lyrae 5'

S 3 N.S.

X/6

190941

RU Lyrae 5"

6 42

N.S. < 11

1913⁵⁰~~49~~T² Cygnus 1.5'mag 10.5th

6 55

X 6 var

see DuChant.

other chart blew away.

599

U Cephei 5'

9 22

do, 5 e 20

10 45

Seeing 2, 3, 3

(7) (576)

(4) (86)

Jan, 14, 1905 (Wednesday)
 6850 L & C 1800

6 45 clear ^{cold} and windy.

7 10 113972 Z Diaroma 5"
 c 3, 1 d

7 45 c 2, 2 d

7 46 Seeing 3, 4, 4

7 48 194632 X Cygni ~~HL~~
 var 2 f 4.86

7 51 285182 V Cephei ~~HL~~
 Reject; wrong comparison. c 3, 3 d
 6.80
 6.80
 6.84

7 53 213843 S P Cygni 5"
 11.62
 11.57
 11.60 n 3, 2 o Est 11.5

7 58 195849 Z Cygni 5"
 no var. 11.5

203 021403 O Ceti ~~HL~~
 2.07
 6.84
 2.04 x 2 34 3 x

Jan. 4, 1905.

p 05

Z Draco 5"
c 4, 1 d

p 30

c 3, 2 d

14258 R Camelops 5"

p 42

$$\begin{array}{r} 11.52 \\ 11.60 \\ \hline 11.56 \end{array}$$
 h 3, 2 h Est 11.5

213244 W Cygni H 7

p 44

L 0, 5 B

p 48

Z Draco 5"
c 4, 1 d

231508 S Pegasi 5"

p 57

$$\begin{array}{r} 8.72 \\ 8.66 \\ \hline 8.69 \end{array}$$
 g 0, 3 h Est 8.7

235350 R Cassiopeiae

p 12

$$\begin{array}{r} 10.98 \\ 10.86 \\ \hline 10.92 \end{array}$$
 g 0, 5 h Est 11.0

Jan 4 1905

9 35 — 801726 T Androm
 A 60
 P. 55 d 2, 2 e 8 86
 P. 58

9 40 — 001755 T Cass
 P. 96
 P. 88 g 4, 0 h e 8 90
 P. 97

9 44 — 210868 T Ceph
 7.99
 7.88 f 3, 3 g 5"
 7.94 e 8 80

9 48 — 022813 U Ceti
 8.46
 8.41 f 2, 1 g 5"
 8.44 e 8 85

9 50 — Seery 3, 3, 3.

9 57 — 001838 R Androm
 11.86
 11.87 u 3, 1 w 5"
 11.86 e 8 11.9

10 10 — 042209 R Tauri
 A. 09
 4.06 e 6, 1 g 5"
 4.08 e 8 2.1

10 17 — 072708 S Car Min
 A. 36
 A. 28 e 3, 2 f 5"
 A. 32 e 8 2.3

(21) (577) L. P. P.
 (86)

114

(Thursday) January 5, 1905

p 685' LC Alb HCO

6 30 clear & cold

6 35 Aurora in North, arched shape, from E. to W.

6 45 An auroral streamer in the due North
213843 S S Cygnus 5"6 50 $\begin{array}{r} 11.52 \\ 11.57 \\ \hline 11.54 \end{array}$ n 2, 20 est 11.56 55 194632 X Cygnus HZ.
4.76 var 3 f Est 4.56 57 213244 W Cygnus - HZ.
var 3.2 6.06 59 235182 V Cygnus HZ.
 $\begin{array}{r} 6.30 \\ 6.20 \\ \hline 6.25 \end{array}$ b 2, 3 c est 6.3

7 00 Hagness 3

7 07 Seeing 2, 3, 3

January 5, 1905.

175458 T. Diacoris

7 20 9.4 h 3, 2 k air 4-47 28 190967 11.0 U. Diacoris
34, 2 f021403 o Ceto HT
7 43 6.97
6.96 3 3, 3 x est 7.0
6.98200938 R. P. Cygni 5"
7 48 7.54
7.12 b 2, 1 c est 7.1202539 R. W. Cygni 5"
7 51 9.2 e 2, 3 f 74-II

202954 HT Cygni 5"

7 59 10.5 x 3, 3 β see chart
for Notation

Jan. 5, 1904.

204446 RZ Cygni

$\begin{array}{r} 10^{\text{th}} \\ \hline \end{array}$
 33, 2 x G. Not

If var. is correctly identified
estimate equals above

214024 RR Pegasus 5"

8 18

η 5 R < 11.5

213753 RU Cygni 5"

8 38

b 3, 2 c 11.5

001726 T Andromeda 5"

8 44

$\begin{array}{r} \text{A. 37} \\ \text{P. 40} \\ \hline \text{P. 3P} \end{array}$
 C 3, 0 d Est PK

8 50

Deering 22.3

011272 δ Cassiopeia 5"

9 20

$\begin{array}{r} 978 \\ 976 \\ \hline 977 \end{array}$
 $\begin{array}{r} 18.08 \\ 976 \\ \hline 976 \end{array}$

k 0, 3 l Est 9.5

Jan. 5, 1904.

9 25 $\frac{053005}{10.5}$ T Orion 5"
g 3, 3 h

9 30 $\frac{052405}{11.0}$ S Orion 5"
l 3, 2 m

9 40 093178 Y Draconis 5"
f 5 N

10 00 093934 R Leo Min 5"
 $\frac{6.99}{8.94}$
8.96 l 2, 1 m Est 9.0

10 10 Seeing 2, 2, 3.
(17) (614) Plotted.
(2) (pp) Posted
Ledger of

Jan. 7, 1905. (Saturday)
 JD 6853 L.C. Obs. H.C.O.

8 20 Argus 3

213843 S. S. Cygni 5"

8 32 $\begin{array}{r} 11.20 \\ 11.22 \\ 11.21 \end{array}$ m 3.1 m Est 11.2

221733 T Lacerta 5"

8 45 20, 4/3 20

clouds

8 53 clouds

222439 S. Lacerta 5"

9 20 $\begin{array}{r} 10.64 \\ 10.45 \\ 10.54 \end{array}$ n 2.0 Est 10.5

235182 V. Capher F. L.

9 23 $\begin{array}{r} 6.30 \\ 6.10 \\ 6.20 \end{array}$ b 2, 4 C

021403 O Cete #1

9 25 $\begin{array}{r} 5.96 \\ 6.06 \end{array}$ var 3 y

001726 T Androm 5"

9 29 $\begin{array}{r} 8.47 \\ 8.40 \\ 8.44 \end{array}$ C 4.0 d Est 8.4

January 7, 1905.

Seeing 3, 4, 3

9 30

2136)8 N' Ethen 5"

9 38 $\frac{10.72}{10.70}$ h 5.0 k est 10.7
10.71

235053 R R Cassiope 5"

9 48 β 3, 0 0 ~~10.71~~ see chart10 02 4 Cassiope
Too cloudy

10 15 clouds

10 30 clouds

10 45 Too Cloudy
(A) (622) Drop
- (AP)

January 8, 1905 (Sunday)
 D 6854 L.C. Ob. L.C.O.

213843 S P Cygni 5-11

9 30

$\frac{f. 80}{A. 70}$
 $\frac{A. 75}{A. 70}$ dz, ze ent p. 7

U Capher 5-11

9 36 ✓ .608 -.105

9 36 ~~.608~~ ~~-.105~~

9 53 .620 -.093

9 54 ~~.621~~ ~~-.092~~

10 08 .631 .082

10 10 ~~.632~~ ~~.080~~

10 25 .642 .071

10 28 ~~.644~~ ~~.069~~

ev, 1 f 7.7

fo, 4 g 7.8

f3, 2 g A. 2

g2, 2 h 8.6

10 37 .651 .062

10 41 ~~.653~~ ~~.060~~

10 53 .662 .051

10 58 ~~.665~~ ~~.048~~

11 12 .675 .038

11 18 ~~.679~~ ~~.034~~

11 30 .687 .026

11 37 ~~.692~~ ~~.021~~

11 43 .697 .016

11 51 ~~.702~~ ~~.011~~

12 12 .717 +.004

12 22 ~~.724~~ ~~+0.011~~

g4, 0 h 8.4

h2, 2 k 9.1

h3, 1 k 9.2

* h3, 2 k 9.2

h3, 1 k 9.2

h3, 1 k 9.2

January 8, 1905-

Z Draconis 5^h

9 39	.610	-.146			
9 40	.611	-.145	a' 5, 1 b	.00	
10 07	.630	-.126			
10 09	.631	-.125	b 1, 2 c	.20	
10 38	.651	-.105			
10 42	.652	-.102	b 2, 1 c	.30	
11 14	.676	-.080			
11 20	.681	-.075	b 3, 0 c	.40	

11 42	.696	-.060			
11 50	.701	-.055	c 2, 2 d	.60	

12 13	.717	-.039			
12 23	.724	-.032	e 4, 0 f	1.4	11.4 <u>th</u>
12 27	.727	-.029			
12 38	.735	-.021	g 4, 0 h	<u>2.0</u>	11.8 <u>th</u>

12 25	.726	+013	U. C. Pher		
12 36	.733	+020	h 3, 2 k	9.2	
12 46	.740	+027			
12 58	.749	+036	h 0, 4 k	9.0	

Note: - C's watch used for times.
 Correct at 9:30, 12^m fast at 13:00
 Watch apparently started to "race" when I
 set it at 9:30, therefore allow uniform
 rate of increase, L.C. Jan. 9, 1905.

January 1924

9 46 001726 T Androm
 $\frac{2.55}{2.55}$ d 1.5, 2 e est 2.6

9 52 235855 Y Cass. 5"
 k 2, 6 l 11.5"

9 58 021403 O Ceto 4.8
 $\frac{6.04}{5.88}$ w 2, 2.7
5.96

10 03 Seeing 2, 2, 2.

10 15 001046 X Androm 5"
 $\frac{11.0}{11.0}$ x 5, 2 E ~~2.1~~

10 25 004533 R R Androm
 x' 4, 3 B 10.5

10 38 004958 W Cassop
 a 2, 3 b 10.5

11 30 081112 R Cancri
 $\frac{9.48}{9.35}$ n 2, 2 o est 9.4
9.42

11 35 081617 V Cancri est 8.8
 $\frac{9.05}{8.63}$ h 2, 2 k
8.80

January 8, 1904

T Mrs May

11 40 123160 $\begin{array}{r} 11.05 \\ 11.06 \\ \hline 11.06 \end{array}$ m 3, 2 m Est 11.1

123961 S Mrs May

11 45 $\begin{array}{r} 8.06 \\ 8.20 \\ \hline 8.13 \end{array}$ e 2, 3 f Est R 2

095421 V Leoins

12 01 $\underline{12.0}$ m 3 var 12th Magn

104414 W Leoins 5-11

12 20 l 3 n < 11.5

110506 S Leoins 5-5"

12 30 d 3, 2 e 9.7

clouds

1250 Too Cloudy,

1300 Closed up for tonight

1400 Mars 5 S'pica. 0.71 eye.

(33) (655) L.P.P.
(11) - (89)

124

Jan. 12, 190⁵ (Thursday)
 JD 6858 L.C. Obs. 1800

12 00 Sky clear now.

51 Xemausa 5"

12 30 Asteroid seen but cannot
 measure for phot. is not ready.

15 Eunomia 5"

12 52 Asteroid thought to be seen
 but as I cannot measure same
 I will confirm it another time.

~~Clouds~~

120905 Virgin 5"
 13 15 $\frac{10.36}{10.42}$ b 3, 2 m Est 10.4
 $\frac{10.42}{10.39}$

123307 R Virgin 5"

13 18 $\frac{9.92}{9.69}$ n 3, 20 Est 9.9
 $\frac{9.69}{9.80}$

124606 U Virgin 5"

13 22 $\frac{7.53}{7.46}$ b 2, 10 7.5
 $\frac{7.46}{7.50}$

Clouds over sky.

Jan. 12, 1905.

094622

Y Hydrae

13 35

 $\alpha' 2, 4 \alpha$ $\frac{5}{2.5}$

13 40

093014

X Hydrae

25 N CS Not.115905

R X Virg

photog Not

13 45

2.2

e 2, 3 f

120206

R W Virg

photog Not

13 50

2.3

d 2, 4 e

120204

R U Virg

13 55

a 4, 2 b

2.5

CS Not

125705

R T Virgins

14 00

2.0

e 2, 2 d

photog Not

132706

S Virgins

14 05

9.31
9.30
9.30

l 3, 1 m

Not 9.3

Jan. 12, 1905,

121418 RV Comae

1410

$$\begin{array}{r} +.77 \\ \underline{+.66} \\ \underline{+.72} \end{array}$$

He 5, of int 8.7

104620 V Hydrae
$$\begin{array}{r} \underline{+.8} \end{array}$$

c 3, 2d

14 17

74-II

143227 RV Bootis

14 30

$$\begin{array}{r} \underline{+.88} \\ \underline{+.86} \\ \underline{+.87} \end{array}$$

He 11, k int 8.9

14 35 Seeing 3, 3, 4

14 42 142539

VV Bootis

74-II

$$\begin{array}{r} \underline{74} \\ \underline{243a} \end{array}$$

140113

ZV Bootis 5-9

14 55

$$\begin{array}{r} \underline{90} \\ \underline{90} \end{array}$$

photo Vot

Jan 12, 1905

144968

u Bootis

5"

74-4

15-12

$$\begin{array}{r} 11.19 \\ 11.36 \\ \hline 11.28 \end{array}$$

e 2, 5 f

Est 11.3

132122 R Hydrae 5"

15-20

$$\begin{array}{r} 6.73 \\ 6.60 \\ \hline 6.66 \end{array}$$

m 4, 20 est 6.7

154428

V Corona

+ 19.

$$\begin{array}{r} 6.14 \\ 5.95 \\ \hline 6.04 \end{array}$$

e 2, 2d est 6.0

15-22

151731

S Corona

5"

$$\begin{array}{r} 10.76 \\ 10.79 \\ \hline 10.78 \end{array}$$

p 5, 39

Est 10.8

15-28

154539

V Corona

5"

10.2

h 3, 2 h

74-4

15-37

160118

R Hare

5"

$$\begin{array}{r} 11.78 \\ 11.78 \\ \hline 11.78 \end{array}$$

p 4, 19

Est 11.8

15-45

Jan 12, 1905
 16 31 37 W Here. 5"

15 50 $\frac{10.96}{10.96}$ m 3.2 m int 11.0

16 21 19 W Here. 5"
 $\frac{11.38}{11.40}$ s 5.2 t int 11.4

15 53

16 47 15 S Here. 5"
 $\frac{11.52}{11.52}$ s 2.2 s int 11.5

16 00

16 03. $\frac{0.81}{0.81}$ Mars & S. Mica (eye)

13 52 08 RR Virg. 5"

16 12 $\frac{10.6}{10.6}$ f 1 W 744

16 20 14 22 05 RR Virgins. 5"
 $\frac{9.5}{9.5}$ e 4.2 d photog.

16 24 14 04 12 2 Virgini
 f 5 W 744

Jan. 12, 1905

16 30 Too Cloudy

16 45 Clouds thicker

17 00 Closed up for tonight

Troubled some throughout
night by floating clouds.

(25) - (650) L. P. P.
(3) (92)

(Saturday) January 14, 1905

J. D. B. L. C. Obs. WCCO.

7 00 Clear & cold tonight.

7 15 213843 N S Cygni 5^h
 $\frac{9.20}{9.29}$ e 3, 1 f Est. 9.2
 $\frac{9.24}{9.24}$

021403 O Cete 4.60

7 20 Moon very near, & real &
 obs. difficult. Moon too near
 brighter comp. to use them.

7 30 193649 R Cygni 5^h
 $\frac{7.03}{6.83}$ e 3, 2 f Est 6.9
 $\frac{6.93}{6.93}$

194048 R T Cygni 5^h

7 35 ~~12~~ $\frac{11.5}{11.5}$ 25, 0 B faint &
 difficult

7 42 15337 f S Ursa Min 5^h
 $\frac{8.3}{8.3}$ C 2 var
 var 5 d

Jan 14, 1905 ~

7 45 201647 M Cygni 5" Est 102

$$\begin{array}{r} 10.26 \\ 9.96 \\ \hline 20.22 \\ 10.11 \\ \hline \end{array}$$
 m 3, 2 m

163266 R Draconis 5" $\frac{1}{2}$

7 50 001726 m 5, 0 m Est 10.7

$$\begin{array}{r} 10.66 \\ 10.56 \\ \hline 10.61 \end{array}$$

7 54 001726 Andromeda 5" Est 2.7

$$\begin{array}{r} 2.70 \\ 2.65 \\ \hline 2.62 \end{array}$$
 d 3, 1 e

A02 054974 V Camelopardalis 5" Est 11.0

$$\begin{array}{r} 11.0 \\ \hline \end{array}$$
 P 3 var

A05 Peery 2, 3, 2

F00 065355 R Lynx 5" Est 10.4

$$\begin{array}{r} 10.43 \\ 10.32 \\ \hline 10.34 \end{array}$$
 R 3, 2 e

10 18 15 Eumonia 5" Est 13.2019 (9.0)

$$\begin{array}{r} 13.2027 (9.1) \end{array}$$
 2 3, 3 B

Could not measure on acct
 of images of phot. not being
 clearly adjusted

Jan 14, 1905
 5-1 Nemausa

10 20 Object taken for asteroid last
 time, not the asteroid.

(11) (621) LPP.
 — (92)

Monday) January 16, 1905

5-45 194632 X Cygni $\frac{5.46}{5.55}$ $\frac{5.33}{5.45}$ f 4.09, 4h est 5.5

643 213843 S Cygni 5" $\frac{9.49}{9.32}$ f 11.39 est. 9.4

621403 O Cete $\frac{4.49}{4.32}$ $\frac{4.40}{4.40}$ f 11.39

646 205923 R Vulpec. 5" $\frac{9.17}{9.24}$ $\frac{9.20}{9.20}$ f 4.1h est 9.2

46 56 205030 U X Cygni 5" $\frac{9.17}{9.24}$ $\frac{9.20}{9.20}$ f 4.1h est 9.2

715 204466 RZ Cygni 5" $\frac{9.17}{9.24}$ $\frac{9.20}{9.20}$ f 4.1h est 9.2

725 213244 W Cygni 5" $\frac{9.17}{9.24}$ $\frac{9.20}{9.20}$ f 4.1h est 9.2

730 213244 W Cygni 5" $\frac{9.17}{9.24}$ $\frac{9.20}{9.20}$ f 4.1h est 9.2

$\frac{6.04}{5.82}$
5.93

Jan. 16, 1905-

213753 RU Cygni 5"

b5, oc, 3d $\frac{8.2}{\text{f.2}}$

7 #0

001726

T Androm 5"

747

 $\frac{8.60}{8.55}$
 $\frac{8.55}{8.58}$

d 2, 2e est 8.6

015912

S Anetis 5"

800

 $\frac{10.44}{10.47}$
 $\frac{10.47}{10.46}$

d 5, 3e

est 10.4

f 06

0210 24

R Anetis 5"

 $\frac{8.09}{8.13}$
 $\frac{8.13}{8.06}$

d 3, 2e est 8.1

822

054920

Ullionis 5"

 $\frac{10.56}{10.56}$

r o r a r, est 10.6

061702

V Inonoc 5"

835

L' 3, 2 d

 $\frac{17.5}{17.5}$

Jan. 16, 1905

064030 X Gemm 5"

8 K2 a 5, 2 b 10.0065530 R Gemm 5"
D 55 P 4 var. 119 00 070310 R Can Gem 5"
h 3, 1 k 10.09 06 071713 H Gemm 5"
9.20
9.29
9.20 c 2, 1 d

9 50 Stopped by clouds

(16) (707) 200
(92)

January 23, 1905 - (Monday)
 D. 6869 L.C. Ob. H.C. Ob.

6 25 194632 X Cygni - 1st
 5.75
 5.53
 5.64
 9 2, 2 h est 5.8

6 27 021403 O Ceto
 4.13
 3.87
 40.0
 m 0, 4 m eye

6 30 213843 N^o Cygni - 5"
 11.52
 11.57
 11.54
 m 2, 20 est 11.5

6 35 201647 U Cygni - 5"
 10.69
 10.72
 10.70
 0 2, 1 p est 10.7

6 40 173449 R Cygni - 5"
 6.72
 6.53
 6.62
 d 3, 2 e est 6.5

6 44 200938 R^o Cygni - 5"
 7.00
 7.05
 7.02
 b 1, 2 c est 7.0

190967 U Draco -

6 53 11.8
 6 var
 var 2 p

P = star near var. dis
 prec. the var.

January 23, 1905

M Cephei 5^h

var 2 d 6.8

c not on chart

6 46 00 57 82
 e 45 .490 - .177

7 0.5 .503 - .164 var 1 d 6.9

7 30 .520 - .147 d 0, 2 e 7.2

7 49 .533 - .134 e 0, 5 f 7.4

8 18 .553 - .114 e 3, 3 f 7.8 hazy

9 14 .592 - .075 f 5, 0 g 7.4 hazy

9 35 .607 - .060 g 3, 2 h 7.7 hazy

C's watch 1^m fast

January 23, 1905

Z Draconis 8-

6	$\frac{51}{50}$	493	-.187	var 2 b	.50
---	-----------------	-----	-------	---------	-----

7	$\frac{31}{30}$.521	-.159	b 1, 3 c	.30
---	-----------------	------	-------	----------	-----

7	$\frac{55}{54}$.537	-.143	b 0, 2 c	.20
---	-----------------	------	-------	----------	-----

8	$\frac{21}{20}$.556	-.124	b 2, 0 c, 4 d	<u>.50</u> Lazy
---	-----------------	------	-------	---------------	-----------------

9	$\frac{17}{16}$.594	-.086	b 4, 2 d	.70 Lazy
---	-----------------	------	-------	----------	----------

C's Watch 1^m fast

Jan. 23, 1905.

6 56 202539 RW Cygni 5-1
9.3 e 3, 2 f 74-4

195849 Z Cygni 5-1
10.5 b 6.0 f. 74-4

213240 W Cygni ~~file~~
 702 6.04 d' 5, 2 d Est 6.0
6.02
6.03

710 Steep good; 2, 3, 2

715 235782 V Apheri ~~file~~
6.25 b 2, 3 c 6.3

218868 T Apheri ~~file~~

720 7.42
7.49 e 3, 2 f Est 7.4
7.46

235050 R Cassiope 5-1
 721 11.08 g 1, 4 c Est 11.1
10.96
11.03

140

January 23, 1905

001754 T Cass 5" haze
 f 3.3 g Ent 8.4

$$\begin{array}{r} 9.47 \\ 9.21 \\ \hline 9.36 \end{array}$$

001824 R Androm 7" haze
 g 3.3 ~ 5" Ent 10.1

$$\begin{array}{r} 10.10 \\ 10.24 \\ \hline 10.19 \end{array}$$

Haze over sky

123160 T. Ursae May
 g 10 h 3.3 k Ent 9.5

$$\begin{array}{r} 9.47 \\ 9.53 \\ \hline 9.51 \end{array}$$

123961 S. Ursae May
 g 12 d 2.3 e Ent 9.7

$$\begin{array}{r} 7.72 \\ 7.56 \\ \hline 7.64 \end{array}$$

072708 S. Can Min 5"
 g 22 e 0.5 f Ent 8.0

$$\begin{array}{r} 8.06 \\ 7.88 \\ \hline 8.02 \end{array}$$

Wazy.

1000 Too Cloudy to con-
 tinue

(30) (737)
 (92) L.P.P.

Jan. 26, 1905 (Thursday)

~~JD 6872~~ ~~20 Ob~~ HCO.> 20 021403 o ceto eye
$$\begin{array}{r} 3.93 \checkmark \\ 3.23 \checkmark \\ \hline 3.44 \end{array}$$
b ~~3~~ 3 m est. ~~3.9~~ 3.9> 25 235142

$$\begin{array}{r} 6.20 \\ 6.20 \\ \hline 6.20 \end{array}$$

V Cphii

H78

b 1, 3 e

est 6.2

213245

$$\begin{array}{r} 6.2 \\ \hline \end{array}$$

W Cygn

H78

a 1, 3 B

est 6.2

210868

$$\begin{array}{r} 7.42 \\ 7.49 \\ \hline 7.46 \end{array}$$

T Cphii

H78

e 3, 2 f

est 7.5

$$\begin{array}{cc} (4) & (741) \\ (-) & (92) \end{array} \quad \text{L. P. R.}$$

Stat. Jan. 28, 1905.

JD 6874 L C C 18 CD

6 50 021403 0 Ceto eye
 $\begin{array}{r} 3.76 \\ 3.53 \\ \hline 3.64 \end{array}$ k 2, 3 l est 3.5

7 36 $\begin{array}{r} .525 \\ - .141 \\ \hline \end{array}$ U Cephei 5"
 e 1, 4 f 7.3

235350 R Cassiop 5"

7 58 12.0P s 3 var ^{est 12.0} high power
 it not seen.

8 00 Sleeping 3, 3, 4

A 02 $\begin{array}{r} .543 \\ - .113 \\ \hline \end{array}$ U Cephei 5"
 e 3, 2 f 7.5

A 19 $\begin{array}{r} .555 \\ - .101 \\ \hline \end{array}$ f 0, 5 g 7.5"

9 00 $\begin{array}{r} .083 \\ - .073 \\ \hline \end{array}$ f 5, 0 g, 3 h A.2

9 20 $\begin{array}{r} .097 \\ - .059 \\ \hline \end{array}$ g 3, 1 h A.5

Jan 28, 1905.

15 Euro

51 Nemansa

10 25

Not found

15 Euro

10 28

see Phot X rec book

R Lewis

5"

11 15

$$\begin{array}{r} 9.36 \\ 9.36 \\ \hline 2.36 \end{array}$$

w 2, 3 y

5"

11 20

$$\begin{array}{r} 9.44 \\ 9.36 \\ \hline 9.44 \end{array}$$
R Booth
l 2, 3 m

LPP

$$\begin{array}{r} (2) 750 \\ 92 \end{array}$$

Jan. 29, 1905 (Sunday)

6875

L O O

HCO

8 40 005381 V Cephei 5"
 .569 e o, 5 f 7.2
 -1.087

8 45 021403 o Cete eye
3.64 k 2, 3 l s_{3.5} lazy.

8 47 235182 V Cephei Fly
 b 2, 3 c s_{6.2}

9 00 074323 T Gemini 5"
10.36
19.36 f 5, 2 g lazy
19.36 s_{10.4}

Sky very hazy now.

9 15 Too hazy to continue
 (4) (754) LPO
 (12)

Jan. 31, 1905 (Tuesday)
 HD 6877 LQ Ob. V.C.O.

05 021403 o Cete eye
 3.74 k 3, 2 l est 3.7

17 123160 T Urs Maj 5"
 P 64
 8.64
 8.64 f 3, 2 g

19 123961 S Urs Maj 5"
 9.82
 7.66
 7.74 d 3, 2 e

23 213843 S S Cygni 5"
 11.97
 12.00 o 2, 1 f est 12.0

042209 R Tauri 5"

30 9.82
 9.78
 9.82 m 2, 1 n est 9.8

042215 W Tauri 5"

35 8.8 f 3, 2 e 74-II

063308 R Monoc

50 11.7 f 5 var. 5"

146

Jan. 31, 1905.

065208 X Monoc. 5"

7 55

A.3

d 5, 1 c photog Not

073508 U Can Min.

9 18

110.50

var 2 d est 105"

085720 T Cancri 5"

9 28

A.8

d 3, 2 e 74-77

9 30

haze & clouds

10 00

"

"

10 05

clearer again.

092405 RT Hyd 5"

10 12

A.5

d 4, 2 b photog Not

10 30

Too Cloudy to continue f.

10 40

Closed up

(11)

(765)
(92)

Feb. 2, 1905 (Thursday)

J20 6A

LC Obs. HCO.

7 15 - 021403o Ceti eye
h 3, 3 l $\frac{386}{3.53}$
3.70

005381 U Cephei 5"

7 36 $\frac{525}{-114}$

e 4, 2 f 7.6

7 47 $\frac{533}{-106}$

e 5, 1 f 7.7

8 08 $\frac{547}{-.092}$

f 0, 5 g 7.9

8 28 $\frac{561}{-.078}$

f 3, 3 g 8.2

8 46 $\frac{574}{-.065}$

g 0, 4 h 8.5

9 13 $\frac{592}{-.047}$

g 3, 2 h 8.7

9 45 $\frac{615}{-.024}$

g 6, 0 h, 3 k 8.9

11 37 $\frac{692}{+.053}$ g 5, h 0.3 k 8.9

Feb. 2, 1905-

7 45 163266 R Draconis 5"
11.27 0 3 var ext 11.3

7 57 064030 X Gemm 5"
 c 4, 2 d 8.5

8 02 070310 R Can Min. 5"
 g 2.3 h 9.5

P 06 071713 V Gemm 5"
9.29
9.55 d 6, 2 e ext 9.7
9.77

P 25 045514 R Leporis 5"
80 c' 4, 2 d 74-II

P 15 Peering 2.2 3

11 50 093014 X Hydrae 5"
 g 3 N cs Not

Feb. 2, 1905

1055 .705
+.066

1211 .716
+.077

1231 .730
+.091

u Cephei

g 2, 3 h

A. 6

4, 1, 1
f ~~2, 3~~ g

A. 3

f 2, 3 g

A. 1

1203 120206 RW Virig 5"
20 d orar

1206 115905 RX Virig. 5"
A. 0 e 3, 3 f

1210 120905 T Virgins
10.36
10.42 l 3, 2 m. est 10.4
10.39

1215 123307 R Virig 5"
10.99 g 4 van est 11.0

1220 124606 u Virig. 5"
h 1, 2 k 9.02
9.00
9.04 est 9.5

150

Feb. 2, 1905.

12 23

R Coronae ~~H79~~
 $\begin{array}{r} 6.14 \\ 5.95 \\ \hline 6.0x \end{array}$ c 2, 2 d rit 6.1

12 28 15/17/13

R Coronae 5"
 $\begin{array}{r} 9.25 \\ 9.18 \\ \hline 9.22 \end{array}$ m 2, 2 m rit 9.2

12 35

R Corvi 5"
 g 3, 2 h $\begin{array}{r} 9.32 \\ 9.12 \\ \hline 9.23 \end{array}$

12 38

Stone old stage in North

12 45

Prob. Aurora instead of old stage
in North
 $\begin{pmatrix} 25 \\ 1 \end{pmatrix}$
 $\begin{pmatrix} 790 \\ 93 \end{pmatrix}$

Th Friday Feb. 3, 1905-

7 12 $\overline{JD-6880}$ $\overline{HCO-}$ \overline{LCLls}
 $\overline{021403}$ $\overline{o Ceto}$ \overline{seya}
 $k 3, 2 l$ $\begin{array}{r} 3.24 \\ 3.63 \\ \hline 3.74 \end{array}$

$\delta 02$ $\begin{array}{r} -572 \\ +003 \end{array}$ Z Draconis 5"
 var invis, green

$\delta 05$ 235182 V Cephei $\overline{H9}$
 $b 2, 3 a$ est 6.2

$\delta 06$ $005-341$ W Cephei $\overline{H9}$
 var 3 d

$\delta 10$ P long 2, 3, 3.

$\delta 34$ $\begin{array}{r} 565- \\ +025 \end{array}$ Z Draco 5"
 $f 3, 2 g$ 1.7

$\delta 47$ $\begin{array}{r} 574 \\ -034 \end{array}$ $e 3, 0 f$ 1.3

$\delta 57$ $\begin{array}{r} 521 \\ +041 \end{array}$ $e 2, 2 f$ 1.2

152

Feb. 3, 1905

Z Draco

9 15 $+ \begin{smallmatrix} .524 \\ .005 \end{smallmatrix}$ C 3, 2 $\overset{0.8}{\text{e}}$ 9 32 $+ \begin{smallmatrix} .605 \\ .065 \end{smallmatrix}$ C 0, b 4.5 $\overset{0.6}{\text{e}}$ 10.01 $+ \begin{smallmatrix} .626 \\ .006 \end{smallmatrix}$ b 11.3 $\overset{0.25}{\text{e}}$ 12 05 094622 Y Hydrae 5"
var 3 x 7.512 15 104620 V Hydrae 5"
9.5 e 2, 2 f 74-11

124204 R U Virg - 5"

12 22 b 4.2 $\overset{90}{\text{e}}$

Vesta

12 30

f 2, 3 $\overset{p}{\alpha}$

125705 R T Virg

~~125705~~

12 38

do. 2 $\overset{8.8}{\text{e}}$

Feb. 3, 1905 -

132706 δ Virginis 5"1246 $\begin{array}{r} 10.39 \\ 10.32 \\ \hline 10.36 \end{array}$ $\mu 4.09$ est 10.4152539 γ Bootis 5"1250 $\alpha 2, 4^5 a$ $\underline{\underline{2.3}}$ 154539 γ Coronae 5"1257 $e 3, 2 f$ $\begin{array}{r} 9.66 \\ 9.66 \\ \hline 9.74 \end{array}$ 144918 η Bootis 5"1305 $e 5$ $\underline{\underline{\eta}}$ 140153 ζ Bootis 5"12 $e 5$ $\underline{\underline{\eta}}$ Temp. at 3.6 too
old to continue1330 Torr & finger froze6.63 R Hydrae 154.1335 $\eta 3$ var1410 Mars 7 γ pica 0.52 eye

Feb. 4, 1905 (Saturday)

~~DDGHI LC. Obs. HCO.~~

7 00 021403 K O cat
 $\frac{11.97}{14.26}$ 2, 2 $\frac{374}{\text{est } 37}$

7 35 213843 S S Cygni 5"
 $\frac{11.97}{14.26}$ 02, 2 $\frac{120}{\text{est } 120}$

7 40 213245 W Cygni. $\frac{11.97}{14.26}$
 2, 2, 3 $\frac{6.5}{\text{est } 6.5}$

7 43 153378 S Mus Min 5"
 $\frac{11.97}{14.26}$ C 3, 4 d $\frac{11.97}{14.26}$ photog.

7 50 142544 R Camelop 5"
 $\frac{11.97}{14.26}$ d 2, 2 e $\frac{9.6}{\text{est } 9.6}$

8 00 061702 V Monoc 5"
 $\frac{11.97}{14.26}$ 2, 3, 3 a $\frac{11.97}{14.26}$ cu 74-11

9 00 Steering 2, 2, 3.
 (16) (815) $\frac{11.97}{14.26}$ LPP.
 - (96)

LC Ob. Feb. 7, 1905 - (Tuesday)
021403 o Ceto ~~5~~ eye

7 05 k3, 2 l 3.74

0053 P1

U Ceph. 5"

7 54 ⁵³⁷
~~075~~ e 4, 1 f 7.4

11397 2 Z Draconis 5"

7 53 ⁵³⁷
⁰⁷⁵ b 4, 0 c, 3 d 0.6

Very windy, & seeing not very good.

8 20 Seeing = 2, 4, 3

8 26 ⁵⁶⁰
⁰⁵² Z Draco 5"
 & C 2, 2 d 0.7

8 27 R Leonis 5"

9.38
 9.18
9.26
 9.27

~~var 4 y~~
 var 5 x
 u 4 var

est 9.3

Feb. 7, 1905

Eumonia. 5"

8 37

f (C.S.) 1 asteroid 9th
see chart
y = +13.1961 (9.0)

Remansa. 5"

X = +A. 1943 (9.3)

8 46

y = +A. 1944 (9.3) X H. 2 y 10.5th
see chart

Z Draconis 5"

8 ~~48~~575
037

e 3, f 1, 3 g 1.4

8 58

582
030

e 5, 0 g 1.47 5"

X Ceti. 5"

9 08

e 2, 3 f photog. Not
10.5th

9 57

10.26
10.24
10.25U Persei
g 2, 3 h set 10.3

10 14

635
+023Z Draco 5"
g 3 var oh 1.9

Feb. 7, 1905.

103769 R Mrs May

10 20 $\frac{11.74}{11.22}$ $\frac{11.20}{11.24}$ r 3, 22 est 11.210 26 00404) U Cassiopeia
 $\frac{11.38}{11.41}$ 9 3, 3 h est 11.4
 $\frac{11.40}{11.40}$ 10 30 .646
+034 Z Draconis.
e 4 2 g 1.510 3) Vesta 5"
f 2, 5 a 7.410 42 .654
+042 Z Draconis
e 2, 4 g 1.310 58 .665
+053 d 1, 2 e 1.0(18) / (233) L.P.P.
(196)

Feb. 10, 1905 (Friday)

JD. 6887

L.C. Obs

H.C.O.

12 50

Clear; somewhat windy but not
so very cold as yet!132322

R Hydrae

Flr.

6.63

6.63

6.63

13 00

m 3, 4 p

Est 6.6

154628

R Coronae

Flr.

13 02

6.24

6.15

6.20

c 3, 0 d

Est 6.2

12418

R Corvi

5"

9.78

9.66

9.72

p 2, 2 h

Est 9.8

13 20

143227

R Bootis

5"

Est 10.8

10.78

10.77

10.78

o 3, 1 p

13 25

151731

S Coronae

5"

Est 10.4

13 30

A.44

A.37

A.40

h 3, 1 h

120905

T Virginis

5"

Est 10.9

x

10.92

10.86

10.89

m 3, 2 m

13 42

Feb. 10, 1905

- 1351 $\begin{array}{r} 9.12 \\ 9.18 \\ \hline 9.15 \end{array}$ R Aurigae 5" f 3.19
- 142305 R S Virgini 5" photog Not
- 14358 $\begin{array}{r} 9.0 \\ \hline \end{array}$ e 4.3 f
- 163137 W Herc. 5"
- 14405 $\begin{array}{r} 11.90 \\ \hline \end{array}$ o 3 var est 12.0
- 14400 $\begin{array}{r} 9.96 \\ 9.96 \\ \hline 9.96 \end{array}$ u Herc g 2.42 est 10.0
- 14415 $\begin{array}{r} 11.88 \\ \hline \end{array}$ 160118 R Herc. 5" p 5 ~~var~~ est 12.0
- 14423 $\begin{array}{r} 11.4 \\ \hline \end{array}$ 164715 S Herc. 5" g 5 u < 11.5
- 14453 $\begin{array}{r} 0.54 \\ 0.38 \\ \hline 0.46 \end{array}$ Mars Vega 4 Mars 1 Procyon
- 14458 $\begin{array}{r} 11.5 \\ \hline \end{array}$ 140412 Z Virg. 5" f 5 u 74-II < 11.5

Feb. 10, 1905

154615 R Serpens 5"

15 08 $\frac{11.88}{}$ m 3 var est 11.9

180531 T Herc 5"

15 15 $\frac{10.12}{10.11}$ n 3, 30 est 10.1

193549 R Cygn

15 22 $\frac{7.72}{7.23}$ h 2, 2 k est 7.8

145347 V Librae

15 30 $\frac{11.7}{}$ e 2 var est 11.7

150018 RT Librae CS 1408.

15 35 $\frac{10.5}{}$ g 5 var. est 10.5th magn.

194048 RT Cygni 5"

15 42 $\frac{9.5}{}$ f 3, 2 g 74-II

194632 X Cygni 5"

15 49 $\frac{6.60}{6.63}$ b 2, 3 m est 6.6

Feb. 10, 1905

154519

RT Librae

5"

15-56

d r e e est 10.8

151520

ST Librae

5"

16 00

2.22
2.22
2.22

m 0, 3 n

Est 9.9

151822

RP Librae

5"

photog

16 05

2.0

e 3, 2 b

152714

RU Librae

5"

photog

16 10

10.0

d H, 2 e

153215

W Librae

5"

16 16

f 3 N

74-D

153020

X Librae

5"

16 24

< 11.2

e 2 N153620

U Librae

5"

16 28

f 5 N

16 00

Reeing

2, 2, 3.

Feb. ¹⁰ 11905-134020 2 Librae 5"

16 34

$$\begin{array}{r} 10.80 \\ 10.74 \\ \hline 10.77 \end{array}$$

e 33d est 102

154715 R Librae 5"

17 00

Var N. S. < 110°

155018 RR Librae 5"

17 05

$$\begin{array}{r} A.P. 4 \\ S.P. 8 \\ \hline P.P. 2 \end{array}$$

b o b e est S, S

160021 2 Scorpii 5"~~16 00~~

17 10

e 5 N 74-II

160210 22 Serpens photos

17 17

2.1

e 5.2 f

160221

X Scorpii

17 22

f' 3 N

Feb. 10, 1905

160519

w Scorpi

17 25

f 5 22161122

R & S Scorpi

17 30

< 11.0

Boo Varz N.S.

p 5 22162319y Scorpi 5⁰
N.S.

17 35

161607w Ceph. 5⁰

17 40

9.5 e 4 2 f162112

V Ceph.

17 45

6.5 e 3, 5 f74 - 11

17 50

Twilight too strong to continue.
Some clouds in W & NW.(27)
(13)(860)
(109)

L.P.P.

164

Feb. 11, 1905 (Saturday)
L.C. Alb 1800021403

6 30

o Ceto eye
h + 2 l $\frac{3.96}{263}$
3.80(1) (A61) L.P.P.
(109)

Feb 13, 1905 (Monday)

J26890 R.C. Ob H.C.O.

8 50 001726 T Androm. 5"
 $\begin{array}{r} 9.46 \\ 9.26 \\ \hline 9.36 \end{array}$ g 2, 2 h est 9.4

8 52 123961 S Urs Maj. 5"
 $\begin{array}{r} 8.60 \\ 8.53 \\ \hline 8.56 \end{array}$ f 1, 3 g

8 55 T Urs Maj 5"
 $\begin{array}{r} 7.50 \\ 7.29 \\ \hline 7.39 \end{array}$ c 2, 3 d

9 02 T Cephei 11.12
 $\begin{array}{r} 7.32 \\ 7.49 \\ \hline 7.40 \end{array}$ c 2, 2 f

9 04 Seeing 2, 2, 3

9 20 Nemousa not found

9 30 Eumonia
 α 3, 2 C.H.

9 50 α 1112 R Cancri. 5"
 $\begin{array}{r} 10.51 \\ 10.24 \\ \hline 10.40 \end{array}$ g 3, 3 r est 10.4

Feb. 13, 1905

9 57

081617 V Cancri 5"

$$\begin{array}{r} 295 \\ 294 \\ \hline 294 \end{array} h 0, 3 \text{ k est } 29$$

10 03

083019 U Cancri 5"

$$\begin{array}{r} 10.33 \\ 10.31 \\ \hline 10.32 \end{array} h 3.1 k \text{ est } 10.3$$

10 22

084920 U Cancri 5"

$$\begin{array}{r} 296 \\ 10.26 \\ \hline 10.22 \\ 10.11 \end{array} p 3, 3 2 \text{ est } 10.2$$

08500A T Hydrae 5"

(0 37)

$$\begin{array}{r} 985 \\ 971 \\ \hline 978 \end{array} h 2, 2 m \text{ est } 98$$

10 50

Vesta 5"

$$f 2, 15 \quad \begin{array}{l} \delta \\ \times \end{array} \quad \begin{array}{l} p = +3.2705 (72) \\ p = +3.2714 (Ad) \end{array}$$

Refine light on photon

$$\frac{(11) (87.2)}{2000}$$

(Tues) Feb. 14, 1905 -

226891 L.C. Ob. H.C.D.

235350 R Cassiop. 5"

7 30

o 6 var. est 10.5"
var o p.

If var is correctly
identified.

011272 S Cassiop. 5"

7 58

$\frac{7.52}{7.56}$
 $\frac{7.57}{7.57}$

f 2, 2 g est p 6

074323 T Gemini 5"

8 30

10.86

g 3 var est

073723

S Gemini 5"

8 38

$\frac{9.10}{9.08}$
 $\frac{9.09}{9.09}$

d 1, 3 e

074922

U Gemini 5'

8 40

d 5 u

Reiny 2, 3, 3

Feb. 14, 1905

821558 ST Perseus 5"

8 58 $\frac{2.04}{2.97}$ 2, 1 f est 20
9.02

832043 γ Persei 5"

9 9 $\times 3$ N
 see chart

052404 ST Orion

9 17 $\frac{10.45}{10.24}$ 2, 2 h est 10.4
10.34

001838 R Androm. 5"

9 40 $\frac{8.95}{8.77}$ h 3, 2 l est 8.8
8.86

001755 T Cassio. 5"

9 47 $\frac{8.27}{8.26}$ f 1, 3 9
8.26

094211 R Leonis 5"

9 52 $\frac{8.68}{8.76}$ 40, 3 in est 8.8
8.76

Feb. 14, 1905-

024356 W Persei 5"

9 5-8

h₁, 3 h

74-14

Eumonia 5"

10 25

 $\alpha' 5, 2 \beta'$

Newansa 5"

10 30

f 3 asterod

Clouds

$$\begin{array}{l} (12) - (224) \\ (2) - (111) \end{array} \quad L.P.P.$$

Feb. 16, 1905 (Thursday)

Moon too bright & too much
haze to make it worth while
to attempt any observing
with the 5" telescope

Feb. 21, 1905 (Tuesday)

6 30 021403 0 Cto # eye
K4, 2L 3. 20

7 00 022426 R Thomas

too low in the tops

S Thomas

f 3, 3 g = est Var

7 08 est comp 42.

~~d 4 e 3 f 2 g 6 h 4 k~~

7 16 d 5 e 4 f 3⁵ g 2 h 6 k 4 l

W Endam

7 20 a b b 4 c 3 d 5 e

Var. f, g, not seen

P T & W Endam

7 25 No good charts at hand

S Pissin

7 45 b. 6 b' & c

Feb 21, 1885

Orion Var No 91 5th

7 58

2 3, 1 f

U Riscin

8 of Moon more before stars
could be selected.

Var = e

1119Clouds in West
Clearer8th Urs May

7 25

f 3, 2 g

880
8.63
8.727th Urs May

7 28

c 3, 3 d

7.60
7.28
7.44

9 30

8th Urs May
4, 3 d

Clearer

Feb. 21, 1905 -

Eumonia

5"

9 45

 $\beta 3, \overset{3}{*} f$

Nemansa

5"

9 5-2

a 4 var ~~prob. not the same~~

042215 W Tauri 5"

10 06

c 6, 2 d

74-II

042209 R Tauri 5"

10 10

 $p 2, 2 q$ 10.89 ~~ext 10.8~~

N Tauri -

10 15

n 2, 3 ~~ext 10.1~~~~Reject~~ Hold
$$\begin{array}{r} 10.02 \\ 9.96 \\ \hline 10.02 \end{array}$$

$$\begin{array}{l} (11) \quad (295) \\ \hline (111) \end{array}$$

L. J. J.

(Thursday) Feb. 23, 1905

022426 R. Hornacis 5"

6 30

Est of comp. No. C Ob
a 6 b 3 c 4 d 3 e 5 f 5"

Var not seen & f

034124 S. Hornacis C Ob
a 5 e 3 f 6 g 3 h 5 k 4 l 5"

6 40

f 2 var 4.9 A.3
No good stars between a & d

034625 U. Eridani 5" C Ob
a 5 b 4 c 4 d 5 e 5 f

6 50

g & var not seen

011208 N. Pise 5" C Ob
b 6 b' 3 c

7 05

Var N.N. in surf

011712 U. Piscum 5" C Ob

see Duchart for Not.

d 3 d' 5 d'' 4 e
f 5 var 0 g 11.72 g' O.K.

Feb. 23/1905

X Androm

7:25

Estimates of Comp. Stars

 δ 5 gamma 2 epsilon 4 \times 3 \times
 Var. invisible

7:00

 O Centi $\frac{1.06}{3.93}$
 15.01 $\frac{3.94}{3.94}$

7 Peritus 024217

Est of sequence

7:38

~~asc 16~~ asc oe $\frac{2}{3}$ b4 d3 f2 l3 g3 h2 k
 do Var 3f $\frac{8.2}{8.2}$

X Centi 031401

Est. of Photog. Sequence

7:48

 b4 a7 c2 d4 e' f e3f e'3 g3 e
 e'2 Var 4 e $\frac{9.5}{9.5}$

V Androm 004435

8:05

~~a2 b5 c3 d4 e4 f~~ b4 d3 f5 a
 var not seen.

Q Q Androm 004533

8:14

 2'4 a₂ 3 b4 x 2 x B & Var not seen

8:23

 235350 R Case 54
 $\frac{10.23}{10.40}{10.58}{12}{10.40}$
 $\frac{3.1}{2} \times 49$

176

Y luns Feb. 23, 1905.

W Cass 004958

8:58

a 3 c, 5 & 4/3 5 & 50

95 24 var 1/3 Epsilon not seen

Omega Var 9!

9:10

82 var not seen

9:20

R Leporis

84 a 4 c / c 3 d 1 f 5 e 5 g 3 h 3 k 3 l
e' 3 var o d A5

9:23

T Leporis

Too low

041619

T Tauri

74-17

9:45

10.40
10.46
10.43

d 3, 3 e

9:50

Reeing 2, 2, 2

(10) (905)
(6) (117)

L.P.P.

(Sat.) Feb. 25, 1905.

6 35 022426 R Formica 5"
a 5-b 4 x 3.3 5 f
alt low & extra difficult

6 42 034625 U Eridani 5"
e 4 f

011712 ~~R~~ U Piscium 5"
6 52 d 4 d' 4 d'' 3 e

6 54 021403 2 1 Var 11.81
o Ceto eye
K 4.0 m 3.86
3.83
3.90 4

045514 R Leporis 5"

b 5 a 4 c 1 c' 3 d 2 f 4 e
e x g 3 h 4 k 4 l

7 03 c' 2, 2 d 8.0

050022 T Leporis 5"

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

7 12 l 3 var 11.8

Feb. 25, 1905

7 13 Pleeing 32, 3

001726 T Androm. 5"

7 22 h 11 3 l $\frac{9.92}{9.74} \frac{9.83}{9.83}$ est 10.0

001046 X Androm. 5"

7 30 p 4 f 2 e 5 b 3 x

Var invis 5"

7 35 000000) U Cass. $\frac{9.61}{9.44} \frac{9.42}{9.42}$ est 9.4

01525X U Persei 5"

7 40 m 3, 15 $\frac{11.06}{10.96} \frac{11.01}{11.01}$ est 11.0

023133 R Trianguli 5"

7 44 g 3, 1 h $\frac{9.54}{9.40} \frac{9.47}{9.47}$ est 9.4R Cassiope ~~at 4.5 p~~7 50 $\frac{10.33}{10.60} \frac{10.52}{10.50}$ 04. p 11. 49 est 10.4

Feb. 25, 1905.

(9) (9.4) L.P.P.
(11) (11.2)

D-690K

Feb. 27, 1905 - (Monday)
L.C. alt.

021403

O Ceti eye

k2, 3l $\frac{3.76}{3.53}$
3.64 ✓

7 05

001046

X Androm

7 16

P6 x 3 e 3 b 3 x 3 y
y 6 z 4 x

see photog chart

T Leporis

Z 55 • b 4 a 3 e 2 d b e 4 f 3 y
g 3 h 5 k 3 l

P 00

Deeny 2 3, 3.

U Cephei

802 - 543
- 026h 4 2 k 9.0

V Androm

b 3 a 5 c 2 e ~~2 3 4~~

e 5 d 4 f 6 3 3 x

Wongster assumed for 3 on the 23rd inst.

U Cephei

P 17

8 19

555
- 014h 2 14 k 9.1

Feb 27/1903-

RR Androm

p 22 $\alpha' 5 - a 3 b 2 f 5x$

T Arctus

p 35- a b c d e 3 b 3 d 5 f 4 l 2 g
g 5 h 4 k

int var = d 1, 4 f

U Cephei

p 3A .562 ph 4, 1 k 9.3
-.0019.01 .584 h 2, 4 k 9.1
+.015

Eumonia

p 50

(1) 5 asteriod see chart
Ident doubtful; prob. not Eumonia.

Remansa.

p 58

(1) 7 asteriod see chart
Ident doubtful; prob. not Remansa.
11.0

Heli 27, 1905.

072708 N Cam Min

9 20 $\begin{array}{r} A. 36 \\ A. 2A \\ \hline A. 32 \end{array}$ e 3, 2 f (8.4)

+ Cephei

9 22 $\begin{array}{r} 210868 \\ \hline 211668 \end{array}$

d 2, 3 e (6.9)

$\begin{array}{r} 6.88 \\ 6.82 \\ \hline 6.85 \end{array}$

9 29 $\begin{array}{r} 8.95 \\ 8.92 \\ \hline 8.94 \end{array}$ R Camelop b 5, 2 c (8.9)

U Cephei

9 32 $\begin{array}{r} 606 \\ +.037 \end{array}$ h 1, 5 k 9.0

9 41 $\begin{array}{r} 612 \\ +.043 \end{array}$ g 4, 1 h .88

9 38 $\begin{array}{r} 110506 \end{array}$ S' Leonis
g 2 u

U Cephei

9 58 $\begin{array}{r} 624 \\ +.055 \end{array}$ g 3, 3 h .6

10 10 $\begin{array}{r} 632 \\ +.063 \end{array}$ g 2, 4 h A. 5

10 32 $\begin{array}{r} 647 \\ +.078 \end{array}$ f 3, 2 g A. 2

Feb 27 '05

Vesta. 5-11

100)

f 3, 3 (2) f

073304 U Can Min

10 26

$$\begin{array}{r} 11.40 \\ 11.36 \\ \hline 11.38 \end{array} \quad f 2, 3 f (11.4)$$

U Cephei

10 39

$$\begin{array}{r} .652 \\ + .043 \end{array}$$
f 2, 4 g. 8.0

Clouds in South

$$\begin{array}{cc} (1.9) & (933) \\ @ & (119) \end{array} \quad L.P.P.$$

184

(Tues) (Feb. 28, 1905)

L.C. Alb

JD 6905

8 07

Seeing 4, 3, 3.

094211

R Leonis

5"

8 12

$$\begin{array}{r} 885 \\ 868 \\ \hline 876 \end{array}$$

t 0, 3 u

est pp

Rather hazy

clouds in N-E-W.

8 45

all cloudy

(1)

$$\begin{array}{r} (934) \\ (119) \end{array}$$

186

Mar. 1, 1905

S 00

V Cephei ^{7.9} b 3 3 c ~~est~~ 6 3Copied from
memo
Mar 2.

A 03

073723

S Gem

P. 30P. 35P. 32b 4, 1 c 8.3 = ~~est~~

T Gem

S 08

074223

11.7411.8111.82h 50 k ~~est~~ 11.8

074922 U Gem

S 12

b 3 U

< 12

010940 U Androm

a b b 3 c 4 d b e 3 g 3 f 5 h 4 x
& just seen

9 12

Var Not

235350 R Cass

9 16

99.3
10.10
10.02

00.4 k 9.9

Y Androm.

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

9 24

h 8 Var Not seen

March 1, 1905

013238 RU Androm

~~ab43cd~~ab¹4b⁴3cd5-2

Est of var =

9 30

c3,3d 9.5

103769 R Vir Maj.

9 40

11.22
11.12 7 2, 3 ~ Est 11 2

052404 St Crux

9 50

10.06
10.05
10.06

f 3, 2 g Est 10 0

021558 St Perseus

10 00

10.22
10.21
10.22

d 2, 0 e Est 10 0

R Leo Min

10 10

10.22
10.21
10.22

f 3, 3 g Est 10 3

March 11/905

014958 X Cassiopeia

a 3 b 2 c \pm 4 d 5 e 4 f10 32 d 3 var 3 e 10.0

024356 W Perseus

a 2 b 3 d 4 c 5 e 2 g

11 18 f 4 f 4 h 5 k 4 l 5 m

f 5 k f 2.5 9.8~~024356~~ U Orionis 5"11 25 $\frac{9.96}{1006}$ $\frac{1001}{1001}$ f 3.5 ~ Est 10.0

star f of U Orionis

11 27 f 5 g 2 ~ $\frac{10.16}{10.56}$ 10.28

072511 T Can Min

11 35 n 3 U

$$\begin{array}{r} (119) \\ (4) \end{array} \begin{array}{r} (953) \\ (123) \end{array}$$

11 45 Closed up quite windy now

Thurs. March 2, 1905

L. Campbell Obs.

JD 6907

7 00 021403 0 Ceto. h 2, 4 Est 3.6
3.60

7 20 Steep 1, 2, 2,

010940 U Androm

7 30 a b b 3 c d b e 3 g 4 f 5 h 4 x

013334 J Androm

7 37 a 5 b 3 c d e 1 f 5 g

013234 R U Androm

7 42 a 4 b' 3 b 4 c 4 d 6 x

c 3 1/2 d 9.5

Nemusa
Not the asteroid.

δ α β
 x

Pos. $x = 7.4$ m
 $+ 10.35$

8 43

2 4/3 which is asteroid.
100

March 2, 1905

~~024356~~ W Androm.
$$\begin{array}{cccccccccccc} \alpha & 4 & \beta & 3 & \gamma & \delta & \epsilon & \zeta & \eta & \theta & \iota & \kappa & \lambda & \mu & \nu & \xi & \pi & \rho & \sigma & \tau & \upsilon & \phi & \chi & \psi & \omega \end{array}$$

barely seen

9 20

$$P_1 \sqrt[3]{3} \xi \quad \underline{\underline{10.0}}$$

024356 W Bessel

9 24

$$\begin{array}{cccccccccccc} a & 4 & b & 4 & d & z & c & 4 & e & 4 & g & 3 & f \\ f & 4 & h & 3 & k & 6 & l & 4 & m & 3 & n & 5 & x \end{array}$$

$$g \text{ 1 var } 2 \text{ f } \quad \underline{\underline{9.5}}$$

04958 X Cassio

9 50

$$a \ 4 \ b \ 3 \ c \ 4 \ d \ 5 \ e \ 5 \ f$$

$$d \ 2, \ 3 \ e \quad \underline{\underline{10.0}}$$

043274 X Camelopard

10 14

$$\begin{array}{cccccccc} C & 4 & \alpha & 3 & \beta & 4 & \gamma & 3 & \delta & 1 & 5 & \epsilon \\ \zeta & 2 & \eta & 3 & \theta & 6 & \iota & 6 & \kappa & \end{array}$$

50 var

March 2, 1905

043065 T Camelopard

74 = 4

10 20 A.O. a 4, 4 b

00953 R Aurigae

10 23

A.46
A.42
A.46

e 3, 4 f est 8.5

055353 Z Aurigae

α 2/3 3/4 4/5 5/6 6/7 7/8
5 3 2 4 710 42 00.0 ~~4.4~~ E 3 var 0 0, 3 5

060450 X Aurigae

10 50 b 3, 3 e A.3

121442 R Corvi

10 57

10.74
10.69
10.71

n 5, 20

est 107 ~~10.74~~

123307 R Virginie

11 02

8.78
8.75
8.76

192

Mar. 2, 1905

124606 U Virginia

11 05

$$\begin{array}{r} 11.13 \\ 10.99 \\ \hline 11.06 \end{array}$$

9 2, 2 ~ est 11.0

R Can Ven

134440

11 10

$$\begin{array}{r} 10.67 \\ 10.34 \\ \hline 10.40 \end{array}$$

0 3, 1 p est 10.4

$$\begin{pmatrix} 5 \\ 14 \\ 14 \end{pmatrix} \begin{pmatrix} 8 \\ 96 \\ 124 \end{pmatrix}$$

L.P.

Friday) March 3, 1905

> 40 Seeing 1, 2, 2. 5"

> 45-235-350 R Cassiop. 5"

$\begin{array}{r} 9.74 \\ 9.73 \\ \hline 9.76 \end{array}$ N H, 20 Est 98

> 50 Nemansa 5"
Asteroid not found.
star assumed for Nemansa last
night not the asteroid.

P 00 Eumonia 5"
P 3, 2 E 90

928206 ~~W. M. W.~~
Z Puppis

~~a b c~~

A 55 a b d
a b d z b 3 c b e 4 f ~~g~~

C 4, 3 e 90

g is as faint as can be easily seen
tonight. Var of g not observed as thought to be seen.

Make chart

March 3, 1905

064707 W Monoc.

a b c 4 c 4 d e' 4 e 5 f g

g ~~h~~ 3 ~~g~~ hClouds Var N.O.

R Monoc

 $\alpha' 4 \alpha'' 4 \alpha''' 3 \alpha 6 3 4 f$

9 38

S not seen

33 in 1 f 11.5

9 45

Clouds

10 15

"

10 30

Too cloudy

$$\begin{pmatrix} 4 \\ 1 \end{pmatrix} \begin{pmatrix} 972 \\ 1234 \end{pmatrix}$$

L.P.P.

(Saturday) March 4, 1905
~~12~~ 6909 L.C. Ob.

7 08 021403 o Ceti eye
 h 3, 3 l 3.70

005381 U Ophi 5"

7 44 531 -024 h 2, 3 k 9.1
 8 10 549 -006 h 3, 3 k 9.2

8 38 568 +013 h 3, 3 k 9.2

9 08 583 +028 h 3, 3 k 9.2

9 30 604 +049 h 2, 4 k 9.1
 9 48 617 +062 9 4, 1 h 8.9
~~10 00~~ 9:59 624 +069 f 5, 0 g 8.5
 10 06 629 +074 f 4, 2 g 8.3

831574 U Antares 5"

8 08 e 3, 3 f $\frac{10.64}{10.62} \frac{10.63}{10.63}$ est 10.6

021143 W Androm 5"

$\alpha 4 \beta 5 \gamma 4 \delta 5 \epsilon' 3 \rho 3 \sigma 4 \tau 4 \theta$
 $\theta 5 \neq \chi 3 \mu 5 \eta$

9 54 $\rho 1, 4 5$ 9.9

March 4, 1905

9 10 *Eumonia* 5"
 P 1, 4 E, 5 η 9.6

see C's chart

072820 b Z Puppio 5"

9 25 a b b 3 d 3 c 5 e 5 f
 f 5 g 5 h
 g 2, 3 h 11.5

Wrong star observed for Var^{og} on last
 night

064707 W Monocerotis

9 38 a 5 b 4 c 5 d 3 e' 3 e 5 g 5 f
 f 4 h

9 40 g 3 $\frac{1}{2}$ f 11.5

+ Mrs May

9 42 $\begin{array}{r} 7.16 \\ 7.20 \\ \hline 7.19 \end{array}$ b 2, 1 c 58 7 2

9 43 $\begin{array}{r} 9.42 \\ 9.34 \\ \hline 9.38 \end{array}$ Mrs May
 h 2 4 h ext 9.4

March 4, 1905

153378 S. Mrs. Min 5"

946

d 2, 3 10.0

063304 R. Monoceros 5"

1004

$\alpha' 3 \alpha'' 4 \beta' 2 \times 5 \beta 6 f$

1005 Steady 2, 2, 2

U. Ophei

1024

$\frac{642}{+0.087}$

f 2, 3 g

A.2

1034

$\frac{651}{+0.096}$

f 0, 5 g

A.0

1055

$\frac{663}{+0.08}$

e 2, 3 f

7.7

March 4, 1905

065111 Y mouse

a 4 a' 4 b 3 b' 3 c

c 5 x 3 x'

J. J.

10 41

b 0 1/2 3 b'

065208 X Monocerotis.

10 54

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

d 5, 2 a

J. J.

(22)

(994)
124

L P P.

(Monday) March 6, 1905
 LC Ob JD 69#11

151731 δ Coronae 5"

11 28 $\begin{matrix} \delta.12 \\ \delta.14 \\ \delta.13 \end{matrix}$ $\begin{matrix} 9.32 \\ 9.32 \\ 9.32 \end{matrix}$ 73, 1h est $\delta.1$

060450 X Aurigae 5"

a 7 b 3 c 1 d 5 e 5 f 3 x

2 4 β 5 β' 4 δ 5 ϵ

ϵ barely seen
 δ not seen

11 48

Est var =
 b 2, 2 c $\frac{A.3}{\underline{\quad}}$

Ennomia 5"

11 55

δ 3, A 27 $\frac{9.7}{\underline{\quad}}$

142539 \checkmark Procyon

12 08

25, 5 a $\frac{7.5}{\underline{\quad}}$

200

Mar 6, 1905

11 55 Auroral arch 5° above Northern
~~12 00~~ horizon extends from NW to NE
~~11 55~~

12 00 Streamers began to move along top
 of arch from NW to NE at a rapid
 rate perhaps 10° per minute at one
 time.

12 07 Streamers reached NE end of arch
 & extended upward about 15° .

R Corona ~~H Dr~~

12 12 d 2, 2 e $\begin{array}{r} 6.35 \\ 6.52 \\ \hline 6.44 \end{array}$

104620 V Hydrea 5°

12 18 e 5, 1 f 9.8

R Hydrea

12 22 $\begin{array}{r} 6.53 \\ 6.53 \\ \hline 6.53 \end{array}$ m 2, 5 p 6.5 est

162019 U Here 5°

12 27 $\begin{array}{r} 9.01 \\ 8.99 \\ \hline 9.01 \end{array}$ m 4, 3 p est 9.0

~~5~~ 3 ~~5~~ m $\begin{array}{r} 8.48 \\ 8.51 \\ \hline 8.40 \end{array}$
 l 3 0

Mar. 6, 1905

180531 T Herc.

1247

$$\begin{array}{r} 9.14 \\ 9.95 \\ \hline 9.04 \end{array}$$

K 2, 2 l est 20

R Cygnus

5-7

193449

$$\begin{array}{r} 8.75 \\ 8.76 \\ \hline 8.76 \end{array}$$

L 4, 0 m

est 20

1252

194044 R T Cyg.

5-11

1256

Reject

d 3, 2 e

Ident?

1574539

V Corona

1320

$$\begin{array}{r} 8.42 \\ 8.36 \\ \hline 8.39 \end{array}$$

a 5, 1 b

est 20

144918

U Bostis

1330

$$\begin{array}{r} 11.29 \\ 11.34 \\ \hline 11.34 \end{array}$$

e 3 5 f

est 11.3

16450

RR Herc

11.5

1340

b 1, 4 c

~~1345 Mars / Vega 2 Mars 3 Capella eye~~

1430

Closed up

$$\begin{array}{r} (16) (1010) \\ - (124) \end{array}$$

1400

No aurora now LPP?

1430

Mars 3 Vega. eye est on way home

202

(Friday) Mar. 10, 1905

JD 6915

L.C. obs

064030

X Gemma 5"

D

a 5 b 4 c 3 d 5 d' 6 e 5 f
f 4 g 3 h 5 k 1 l

11 50

g 4 ¹⁰/₁₀ h 10.0

065530

R Skenn 5"

3 6 2 3 2' 4 y 8 P 6 8 6 E

12 05

E barely seen

Var not seen

063558

S' Lynce 5"

h 1, 4 k 11.3

12 22

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

Mar 10, 1905

windy, now

160210 U Serpens 5-11

12 37 e 5, 3 f 9.0

162807 S S Herc. 5-11

12 48 Var not certainly ident.

R Hydrae ~~HT~~12 52 $\frac{6.63}{6.53}$ m 3, 5-f.

160625 RU Herc 5-11

13 00 h 5 R

165631 R V Herc 5-11

13 05 α 2 R

170627 RT Herc 5-11

13 12 β 5 R

Mar. 10, 1905

171723 R. S. Herc 5^h

13 16

e 3, 3 f

13 20

175458 T. Dracon 5^hh 3, 3 l 10.5

13 24

175657 V. Dracon 5^ha 4, 3 b 9.1

13 36

14341 V. Librae 5^hd 3 N

13 47

150045 R. T. Librae 9^hh 5 var 11.5 lb

150519

T. Librae

If var is correctly identified.

13 55

11.02
10.2410.93

d 3, 2 e

est 10.9

Mar 10, 1905

N Litrae

5"

est 10.6

13 58

$$\begin{array}{r} 10.85 \\ 10.60 \\ \hline 10.08 \end{array}$$

02, 2 fr

194632 X Cygni

5"

14 20

~~03, 02~~

$$\begin{array}{r} 7.32 \\ 2.23 \\ \hline 2.24 \end{array}$$

00, 3 fr est 7.3

194048 RT Cygni

5"

14 25

f 5 var ~~11.8~~ 11.8

N Cygni

5"

14 35

~~10~~

$$\begin{array}{r} 11.12 \\ 11.02 \\ \hline 11.10 \end{array}$$

f 3, 09 est 11.0

1805 31

T Herc

3"

14 40

$$\begin{array}{r} 8.59 \\ 2.59 \\ \hline 8.59 \end{array}$$

f 2, 1 h est 8.6

2025 39

RW Cygni

14 46

f 4, 09 9.7

Mar. 10/1905

R² Cygn 5"

200934

14 48

$$\begin{array}{r} 7.53 \\ 7.57 \\ \hline 7.53 \end{array} \quad \text{C 30d} \quad \text{est } 7.5$$

213843

R² Cygn

14 52

$$\begin{array}{r} 11.20 \\ 11.12 \\ \hline 11.16 \end{array} \quad \text{in 3, 2m} \quad \text{est } 11.2$$

151822

R² Librae 5"

15 08

b 7, 1d 9.7

152714

R² Librae 5"

15 15

g 3 N

153215

W² Librae 5"

15 18

g 5 N

153020

X Librae 5"

15 25

e 5 N < 11.5

Mar 19, 1905 -

1530 153620 U Librae 5"e 5.3 f 9.9

If correctly ident.

1535 154020 Z Librae 5"e 2 N $\ll 11.9$ 1540 154715 R Librae 5"B 5 N1543 155018 RR Librae 5"1543 $\frac{9.70}{9.67} C$ 3.0 d int 9.6

1545 Mars 4 Vega - 0.32

1600 R. Scuto $\frac{5.59}{5.53}$ d 4.1 e

Mar. 19, 1905

16 1607 W Oph. 5-4
 16 05 g 5 var 11.5 ~~th~~
 V Oph

16 2112
 16 10 g 3, 2 h 5-11
9.1

16 0021 ~~Z Oph.~~
 Z Scorpius
M

16 15 160221 X Scorpius 5
 fl 4, 2 g 11.6

16 0579 W Scorpius 5
 16 18 g 3 M

16 1122 V Scorpius 5
 16 20 11.52 2 5 var. 5
 R Scorpius
 16 24 ~~11.6~~ 2 5 M
 < 11.5

Mar 10, 1905

16 23 162319 Y R copin 5"
 2 3, 2 B 10th

16 28 162815 T Oph 5"
 2 2, 3 f 9.6

16 30 162816 S Oph 5"
 9 5 var 10.6

170215 R Oph 5"

16 32 If var. is seen set =
 2 5 var 12.06

190108 R Aquilae 5"

16 45 a 4, 6 b $\begin{array}{r} 6.52 \\ 6.56 \\ \hline 6.54 \end{array}$ 5"

205923 R Vulpes 5"
 2 5 R < 11.2

16 52 $\begin{array}{r} 11.20 \\ 71.12 \\ \hline 12.16 \end{array}$ S S Cygni 5"
 m 3 2 n set 11.2

16 58 Twilight coming over

210

Mar 10, 1905

R Sagittari

17 05

2 2 4 2 < 10.2

Twilight too strong to continue

(3 3)	(10 13)	L.P.P.
(1 5)	(1 3 9)	

(Saturday) March 11, 1905.
 JD 6916 L.C. Obs.

7 00 — 021403 o Ceto eye
 k4, 2 $\begin{array}{r} 3.96 \\ 3.63 \\ \hline 3.20 \end{array}$
 210382 X Cephei 5"

8 30 $\alpha 3 \beta 4 \gamma 5 \delta 6 \epsilon 6 \zeta$
 Var N.S.
 Eumonia 5"

8 55 — $\delta 2, 3 \eta$ $\underline{9.8}$

9 00 — Clouds

X Monoc. 5"

9 05 $\delta 6 a 3 c 4 b 4 e 5 f 4 g 5 h$
 Vesta 5"

9 18 $\delta 6, 4 \beta$ per Dubach

9 20 Clouds

9 30 Closed up
 (3) (1046) (1) (140) L.P.P.

Mon Mar. 13, 1905

JD 6918

LC Obs

> 10 021403 α Ceti #19
 h 5.0 l $\begin{array}{r} 4.06 \\ 383 \\ \hline 3.94 \end{array}$

> 45 235782 \checkmark Ophi \checkmark 19
~~235782~~ b 3.4 c int 6.2

> 55 5" telescope out of commission
 and so I will use the 2.5"
 (2) (1048) L.P.P.
 140

Wed. Mar. 15, 1905
 JD 6920 L.C.O.B.

7 30 Seeing 3, 2, 2

R Pyrrhia
 Est of Comp. 42.

7 50 Could not identify region

8 10 Moon light in S. & clouds in N.

8 15 More cloudy

10 10 Returned but too cloudy to observe

10 30 closed up. L.P.P.

(Wed.) Mar 22, 1905
 ID 6927 L C Observer

6 53 - 123160 T Mrs. May. 5"
 $\frac{560}{728}$ C 3, 3 d int 74
 $\frac{744}{744}$

6 57 123961 N Mrs May 5"
 $\frac{994}{979}$ h 2, 3 l int 98
 $\frac{986}{986}$ V Can Min

a 3 a 4 a 3 a 3 b a⁴
 a⁴ 3 b 4 c 5 d 6 e 4 f 2 g
~~g b h 7 l~~

Var invis.

R Can Min

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

h assumed as Southern
 most of line of three stars
 Not a good comp. star,

RR Mouse

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

err var 2 f

If Var is correctly ident,

Mar 22, 1905

Eumonia

2 40

$$\begin{array}{r} \eta \text{ b } \overline{\text{asteroid}} \\ \text{asteroid } 5 \text{ b} \end{array} \quad \underline{\underline{10.4}}$$

2 30

Beery 3.24, 3

9 18

$$\begin{array}{r} \text{Vesta} \\ 2' 3, 3 f \end{array} \quad \begin{array}{r} \text{FLR} \\ 6.14 \\ 6.39 \\ \hline 6.26 \end{array}$$

9 22

$$\begin{array}{r} 7.39 \\ 7.46 \\ \hline 7.42 \end{array} \quad \begin{array}{r} \text{RVirginis} \\ 2' 3, 1 f \end{array} \quad \begin{array}{r} 5'' \\ 2.75 \end{array}$$

10 00

$$\begin{array}{r} \text{Coronae} \\ 7.62 \text{ var } 2 g \end{array} \quad \text{est } 7.6$$

10 15 Moon too bright & sky too hazy
to continue further

(7) (1055) L.P.F.
(1) (41)

(Thurs.) Mar. 23, 1905
 JD 6928 LCOB

9 45 — Ennomia 5"
 7 5, 3 3 10.4

9 47 154428 R Coronae 5' 11.79
 6.44
 6.15 C 5, 0 d, 3 e
 6.42
 6.34

9 57 210868 T Cephei 7.79
 6.78
 6.72 d 1, 4 e Feb 6.8
 6.75
 Vesta 7.19

10 00 L' 4, 4 f' 6.26

153378 S' Ursae 5"

10 05 d 3, 3 e

10 15 closed

(5) 106d LPO
 (141)

Mar 27, 1905 (Monday)

L.C. Obs.

Ermonia

8 05

74 Asteroid

10.3

Clouds about

8 36

235 (824) Ephie

b, 1, 3, 4

10.2
Est 6.2

8 42

Vesta

2' 3, 4 E

Est 6.1

X Hydrae

9 20

a 7 b 3 c 3 d 6 e 3 e' 3 e'' 5 f 3 g
f 5 h 5 k 4 l 4 m

e'' 3 3 f

9.7

Y Draco

2 3 3 6 5 6 5 3 f 3 4 7

9 40

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

Var. in vis.

c 3 c' 3 d

Mar 27, 1905

X Aurigae

a b, 3 c 3 d 3 e 5 f 4 25 36
3 5 3 5 6 e

10 10

c 2 1/2 d 8.6

V Camelopard

2' 6 3 5 a 6 f 4 f' 4 p

10 30

p 3 e 5 7 4 5 5-0

Var not certainly seen

R Hydrae 17 1/2 days

11 35

f 4, 29, 5 h

4.81
4.59
4.58

Var decidedly brighter

19.8
4.66

Mars eye

10 1

11 40

Mar 6 Vega 0.52

(7) (1067)
(2) (143)

~~Wed~~ Wed Mar. 29, 1905

Z.C. Cb.

Eumonia - 5"

7 14
7 15
7 16

asteriod 2 a 10
asteriod 4 c 12
e 2 asteriod ~~12~~

7 19
7 16.0 .510

d 4 asteriod 6.8

7 24
7 25

aster. 3 a
" 6 c

436

7 26
7 26.5

η 5 aster
e 0 aster

10
10

8

10

10

10

9.5

7 27
7 28
7 26.1 .518

b 5 asteriod
f 2 asteriod

7 55

aster 4 a

8

7 55.5

d 4 aster

6

7 56

b 4 aster

9

7 56.5

e 0 aster

8

7 57

f 3 aster

10

7 58

g 1, 3 h

9

7 59

η 4 aster

9

7 56.7 .540

b 4 aster

10

9

10

9

8.6

b is star E

ests of comp Hs.

2 02 d 3 η ; p 2 d; b 3 e 4 a; d 5 f 12 5 h;
a 0.5 # c
over

Mar 29, 1905 -

Eumonia cou't

$$\begin{array}{r} A \quad 05 \\ \underline{A \quad 05.5} \\ A \quad 5.2 \end{array} \quad \begin{array}{r} \\ \\ -545 \end{array}$$

Eumonia cont.
 7 4, 4 a 7
 6 4, 1 e 8
 7

9
8
9
7

4/33
8.2

f 21

d 4, 4 a

6
8
7
6
8
8
8

P 22

bz, ze

Li Aster

$$\begin{array}{r} 22 \\ 21.5 \\ \hline 556 \end{array}$$

90, 5 h

$$\begin{array}{r} 151.0 \\ 7.3 \\ \hline \hline \end{array}$$

4 Draconis

27 B 4 d 5 5 f 3 0 3 7 6 a 5 b 4 c
c 4 c' 3 d 4 e 5 f

8 3 4

Eymonia cont.

241

b, 2, 2 e

P 42

15a

243

215h

$$\begin{array}{r} 843.5 \\ \hline 842.4 \end{array} \quad , 571$$

74 Ast

$\frac{7}{6}$
 $\frac{2}{7}$
 $\frac{9}{2}$
 $\frac{9}{7}$
 $\frac{7}{54}$
 $\frac{7}{7}$

P 5-9

Oct 4. 1795

900

f 1, b 3, c 0

8 595-543

6
10
2
2
2
—
2.5

This book
L. P. I. P.
Apr. 11, 1905.

1984 June 19 7518

