

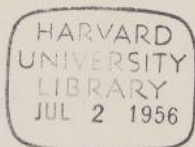
1907phae.proj..671C

KG
11365
670

KC 11365.670



MC 11365⁶⁷⁰



Mon Nov. 11, 1907
 L.C. Os JD 7891

7891

162119 U Hare

7 ¹³/₁₃ 16 15 +19.5
 22 43
 6 28 W
 X coronae

Too low

15453.6

7 18 15 46 +36.1
 22 48
 7 2 W

Too low in cloud

R Draconis 163266

7 ²⁰/₂₁ 16 27 +67.4
 22 51
 6 24 W
 est 11.8

6:22 W
 +67.4
 22:55

T Urs Mini 133273
 13 40 +75.4
 22 58
 9 18 W clouds
 7 40 cleaner

9:47 W
 +74.4
 23:20

E.T. = 7:45

R Camelopard 142584

7 50 14 40 +84.1
 23 24
 8 44 W
 est 12.4

8:55 W
 +84.6
 23:25

891

Nov. 11, 1907 7891

RR Aquarii 210903

21 7 -3.2

23 2f

p 02 2 21 w est h 3.1 k

23.3A

2.2pw

-2f

T Capric. 2116158 ¹³ 21 14 -15.8

23 40

2 26 w est 13.2

23.4f

2.34w

-15.2

f Capric 212414

21 26 -14.1

8 20 23 50

< 13.0

2 24 w

2 27 w

23 55

-13.8

20 15 20 V Sagittae

20 14 +21.4

8 24 23 57

3 43 w

0.2 var

3 43 w

23 59

+21.4

21 40 24 RR Pegasi

21 36 +25.0

8 28 0 0

2 22 w

S 3.2 sta

2 23

0 3

+25.2

Nov. 11, 1907.

7891.6

7891

$$\begin{array}{r}
 22042 \\
 22 \quad 2 + 12.2 \\
 8 \quad 33 \quad \underline{24 \quad 5} \\
 \quad \quad 2 \quad 3
 \end{array}$$

J Pegasi

k1, 3l

$$\begin{array}{r}
 25w \\
 +20 \quad 8 \\
 +12.4
 \end{array}$$

$$\begin{array}{r}
 200357 \\
 20 \quad 0 + 57.6 \\
 8 \quad 39 \quad \underline{0 \quad 11} \\
 \quad \quad 4 \quad 11w
 \end{array}$$

S bygni

bst. 130

$$\begin{array}{r}
 4 \quad 10w \\
 0 \quad 14 \\
 +58.3
 \end{array}$$

$$\begin{array}{r}
 232848 \\
 23 \quad 26 + 47.7 \\
 8 \quad 47 \quad \underline{0 \quad 16} \\
 \quad \quad 0 \quad 50 \\
 \quad \quad 20
 \end{array}$$

Z Androm

h 22k

$$\begin{array}{r}
 .0 \quad 53w \\
 0 \quad 22 \\
 +48.8
 \end{array}$$

$$\begin{array}{r}
 233335 \\
 23 \quad 31 + 35.0 \\
 8 \quad 51 \quad \underline{24 \quad 23} \\
 \quad \quad 52
 \end{array}$$

— Androm

l o var

$$\begin{array}{r}
 0 \quad 52w \\
 0 \quad 26 \\
 +35.5
 \end{array}$$

$$\begin{array}{r}
 005840 \\
 0 \quad 55 + 40.6 \\
 8 \quad 55 \quad \underline{0 \quad 27} \\
 \quad \quad 0 \quad 28E
 \end{array}$$

R X Androm

h 3 2m

$$\begin{array}{r}
 0 \quad 29E \\
 0 \quad 30 \\
 +41.3
 \end{array}$$

7891

Nov 11 1907

7891.

$$\begin{array}{r}
 004435 \\
 0 \quad 40 + 35.5 \\
 9 \quad 1 \quad 0 \quad 32 \\
 \hline
 0 \quad 8 E
 \end{array}$$

U Androm

13.5

$$\begin{array}{r}
 0 \quad 9 E \\
 0 \quad 36 \\
 + 35.6
 \end{array}$$

$$\begin{array}{r}
 001809 \\
 0 \quad 15 - 10.2 \\
 9 \quad 5 \quad 0 \quad 38 \\
 \hline
 0 \quad 23 W
 \end{array}$$

S Beti

Est 11.3

$$\begin{array}{r}
 0 \quad 23 \\
 0 \quad 40 \\
 - 9.5
 \end{array}$$

$$\begin{array}{r}
 004533 \\
 0 \quad 43 + 33.5 \\
 9 \quad 13 \quad 0 \quad 40 \\
 \hline
 0
 \end{array}$$

RR Androm

Est 11.58

$$\begin{array}{r}
 0 \quad 2 W \\
 0 \quad 48 \\
 + 34.5
 \end{array}$$

$$\begin{array}{r}
 010940 \\
 1 \quad 8 + 40.2 \\
 9 \quad 18 \quad 0 \quad 49 \\
 \hline
 19 E
 \end{array}$$

U Androm

03 N

$$\begin{array}{r}
 0 \quad 19 E \\
 0 \quad 53 \\
 + 40.6
 \end{array}$$

$$\begin{array}{r}
 004047 \\
 0 \quad 37 + 47.4 \\
 9 \quad 20 \quad 0 \quad 54 \\
 \hline
 0 \quad 17 W
 \end{array}$$

W base

13 N

$$\begin{array}{r}
 0 \quad 15 W \\
 0 \quad 55 \\
 + 40.3
 \end{array}$$

Nov. 11, 1907

5

7891.

7891

$$\begin{array}{r}
 011208 \\
 9 \quad 24 \quad 1 \quad 8 + 8.0 \\
 \quad \quad 0 \quad 57 \\
 \hline
 \quad \quad 11 E
 \end{array}$$

S Piscium

Est 12.8

$$\begin{array}{r}
 0 \quad 12 E \\
 0 \quad 59 \\
 + 9.0
 \end{array}$$

$$\begin{array}{r}
 011712 \\
 9 \quad 27 \quad 1 \quad 14 + 12.0 \\
 \quad \quad 1 \quad 1 \\
 \hline
 \quad \quad 13 E
 \end{array}$$

U Piscium

Est 12.0

$$\begin{array}{r}
 0 \quad 15 E \\
 1 \quad 2 \\
 + 12.7
 \end{array}$$

$$\begin{array}{r}
 013338 \\
 9 \quad 29 \quad 1 \quad 32 + 39.8 \\
 \quad \quad 1 \quad 3 \\
 \hline
 \quad \quad 0 \quad 29 E
 \end{array}$$

Y Androm

Est. 11.0

$$\begin{array}{r}
 0 \quad 29 E \\
 1 \quad 4 \\
 + 39.4
 \end{array}$$

$$\begin{array}{r}
 015912 \\
 9 \quad 50 \quad 1 \quad 55 + 12.0 \\
 \quad \quad 1 \quad 6 \\
 \hline
 \quad \quad 0 \quad 49 E \\
 \quad \quad \quad 59 \\
 \quad \quad \quad 15 \\
 \quad \quad \quad 72
 \end{array}$$

S Arietis

Abandoned cannot identify
< 13.7

$$\begin{array}{r}
 0 \quad 33 E \\
 1 \quad 25 \\
 + 12.6
 \end{array}$$

$$\begin{array}{r}
 023133 \\
 9 \quad 47 \quad 2 \quad 27 + 34.0 \\
 \quad \quad 1 \quad 19 \\
 \hline
 \quad \quad 1 \quad 8 E
 \end{array}$$

R Trianguli

Est. 11.5

$$\begin{array}{r}
 1 \quad 9 E \\
 1 \quad 22 \\
 + 34.5
 \end{array}$$

Nov 11, 1907

1891 1

9 57

$$\begin{array}{r} 235855 \\ 2356 + 54.7 \\ \hline 2528 \\ 132w \end{array}$$

Y bassiof
n' 3 N

$$\begin{array}{r} 133w \\ 132 \\ + 5578 \end{array}$$

10 2

$$\begin{array}{r} 235053 \\ 2350 + 53.0 \\ \hline 2533 \\ 143w \end{array}$$

RR bassiof
X II 3 var 13.57b

$$\begin{array}{r} 145 \\ 137 \\ + 53.6 \end{array}$$

10 21

$$\begin{array}{r} 011272 \\ 18 + 72.0 \\ \hline 138 \\ 030w \end{array}$$

L bassiof
est 135

$$\begin{array}{r} 042w \\ 156 \\ + 72.6 \end{array}$$

Polar Standards

10 25

n 3 L DF
Bary 2

$$\begin{array}{r} 523 \\ 20 \end{array}$$

10 31

$$\begin{array}{r} 0420^{209} \\ 420 + 9.6 \\ \hline 22 \\ 218E \end{array}$$

R Jauri
est 12.5

$$\begin{array}{r} 216 \\ 26 \\ + 10.4 \end{array}$$

Nov. 11, 1907

7

7891.6

042309

S. Jauri

10 34

< 13.8

$$\begin{array}{r} 2 \ 14 \ E \\ 2 \ 9 \\ +10.2 \end{array}$$

042215

S. Jauri

10 36

4 20 +15.7

$$\begin{array}{r} 2 \ 10 \\ \hline 2 \ 10 \ E. \end{array}$$

Est 11.0

$$\begin{array}{r} 2 \ 11 \ E \\ 2 \ 11 \\ +16.3 \end{array}$$

044617

S. Jauri

10 45

4 42 +17.0

$$\begin{array}{r} 2 \ 12 \\ \hline 2 \ 30 \ E \end{array}$$

to 3 var

$$\begin{array}{r} 2 \ 26 \\ 2 \ 20 \\ +18.2 \end{array}$$

24

7

—

—

373

39

301

7

L p p

78925

Tues. Nov. 12, 1907
LC Obs. JD 7892

T Perseus 182306

18 22 + 6.1

4.44 W

7 30

23 02

est d 4.2 k

+ 6.8

4 40 W

23.08

RV Aquilae 193509

3.42 W

7 40

19 39 + 10.3 est 10.5

+ 10.3

23 12

23.18

3 33 W

RT Aquilae 193311

23.22

7 44

p 2, 39 ✓

+ 12.2

3.1 W?

SV Bootis 141954

+ 5.46

7 51

14 20 + 52.6

9.9 W

23 24

est 12.6

23.29

9 4

Pole estimates

Wage 3

7 56

est 6.5 L.V.

Nov. 12, 1907

7892 6

V Magittae 2015 20

8 23 20 14 +21.4 04, 3 p
 23 56
 3 72 w

3 46
 0 1
 +21.4

20 35 11

Cy Andromedae

8 26 20 35 +11.0
 0 3
 3 28 w

Est. 9.0

3 28 w
 0 4
 +11.9

14 15 67

Or Musae Trini

8 31 14 15 +16
 24 6
 9 9 9 51 w

blonds
 Est b 2, 2 c

10 32 w
 0 48
 +67.8

190941 RU Lyrae

19 10 +41.0
 24 54
 9 17 5 44 w Est u 3, 3 0

+41.8
 24 57
 5.49 w

20 14 37 b X by gni

20 12 +37.5
 25 00
 9 22 4 48 w

Est f 2, 2 g

4 47 w
 +37.8
 1 1

7892 6

Nov 12 1907 7892.5

9 26 $\begin{array}{r} 235525 \\ 2353+25.0 \\ 253 \\ \hline 110w \end{array}$ Z Dargasi
g 2 2 h

1 12 w
1 5
+25.8

9 33 $\begin{array}{r} 004958 \\ 047+58.2 \\ 113 \\ \hline 026w \end{array}$ H bassini
bst 9.5

0 23
1 12
+58.5

9 39 $\begin{array}{r} 022980 \\ 230+50.6 \\ 116 \\ \hline 114E \end{array}$ R R bephri
bst 11.0

1 15 E
1 18
+81.4

9 44 - closed up. Too much cloud.

13 386 L.
— 39 PP
— 301
— 7

Wed. Nov. 27, 1907

7907 5

LCCb

JD. 7907

RR Hercules 160625

16 4 +25.9 6:30 W
 22 35 +26.4
 5 58 6 31 W 22:38

RV Herc. 165631

16 55 +31.1 5:47 W
 22 38 +31.8
 6 03 5 43 W 22:43

W Herc 163137

16 30 +37.3 6:15 W
 22 44 +37.8
 6 06 6 14 W 22:46

RR Herc 160150

15 55 +50.3 6:51 W
 22 48 +51.2
 6 10 6 53 W 22:50

V Capric 210124

21 2 -24.0 23:02
 6 22 22 52 21:01 W
 1 50 W -23.5

1907 5

Nov. 27, 1907 1907

W Aquilae 191007

6 28 $\begin{array}{r} 19\ 7 \\ 23\ 7 \\ \hline 4\ 0 \end{array}$ -7.4 4.00 W
 -7.0
 23.02
 4 0 W - est 24.0 p

RR Aquilae 195202

6 32 $\begin{array}{r} 19\ 51 \\ 23\ 09 \\ \hline 3\ 18 \end{array}$ -2.6 -1.5
 est 25.0 p 3.20 W
 3 18 W 23.12

RR Aquilae 195302

6 36 $\begin{array}{r} 19\ 52 \\ 23\ 14 \\ \hline 3\ 22 \end{array}$ -2.5 -7.2
 est 11.3 3.23 W
 3 22 W 23.16

Y Aquarii 203905

6 40 $\begin{array}{r} 20\ 40 \\ 23\ 17 \\ \hline 2\ 35 \end{array}$ -5.6 2.41 W
 est 25.0 d -4.7
 2 35 W 23.20

X Aquarii 221321

6 47 $\begin{array}{r} 22\ 11 \\ 23\ 22 \\ \hline 1\ 11 \end{array}$ -21.5 1.13 W
 est 3.0 W -20.9
 1 11 W 23.27

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7907 5

RT Aquarii 221722

6 56

22 14 -22.2

23 29

1 13 W

est 11.8

1.19 W

-22.2

23.36

ST Aquarii 225120

7 03

22 48 -21.0

23 39

0 51 W

est 13.6

0.52 W

-20.5

23.42

V Sagittae 201520

7 11

20 14 +21.4

23 44

3 30 W

est 03.2 p

23.50

+21.4

3 W

STV Herc 182224

7 27

18 22 +24.6

24 04

5 42 W

d1, 3e

5.43 W

+25.8

24.07

RZ Herc 183225

7 32

18 30 +25.3

24 08

5 38 W

est m3, 2m

+26.4

5.40 W

24.12

Nov. 27, 1907

7907

7907 5

R X Lyrae 185032

$$\begin{array}{r}
 18 \ 48 \ +32.4 \\
 24 \ 14 \\
 \hline
 5 \ 26 \ w
 \end{array}
 \quad
 \begin{array}{r}
 9 \ 3 \ \underline{\underline{2}} \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 +33.2 \\
 5.28w \\
 24.17
 \end{array}$$

Z Lyrae 185634

$$\begin{array}{r}
 18 \ 52 \ +34.7 \\
 24 \ 19 \\
 \hline
 5 \ 27 \ w \ \text{est d 2, 2e}
 \end{array}
 \quad
 \begin{array}{r}
 +35.4 \\
 24.21 \\
 5.26w
 \end{array}$$

U Lyrae 191637

$$\begin{array}{r}
 19 \ 17 \ +37.6 \\
 0 \ 24 \\
 \hline
 5 \ 7 \ w
 \end{array}
 \quad
 \begin{array}{r}
 \beta' \ 0 \ 3 \ \alpha \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 5 \ 13 \ w \\
 0 \ 29 \\
 +38.4
 \end{array}$$

J Draconis

$$\begin{array}{r}
 17 \ 54 \ 58 \ +57.0 \\
 24 \ 31 \\
 \hline
 6 \ 40 \ w
 \end{array}
 \quad
 \begin{array}{l}
 T = \text{north pole component} \\
 = 10.5
 \end{array}
 \quad
 \begin{array}{r}
 6 \ 40 \ w \\
 0 \ 34 \\
 +58.5
 \end{array}$$

- Draconis = south pole component
 = best for 1, 3 q

V Draconis

$$\begin{array}{r}
 17 \ 56 \ 54 \ +55.0 \\
 0 \ 37 \\
 \hline
 6 \ 41 \ w
 \end{array}
 \quad
 \begin{array}{l}
 \text{best} < 13.5
 \end{array}
 \quad
 \begin{array}{r}
 6 \ 46 \ w \\
 0 \ 42 \\
 +55.3
 \end{array}$$

Nov. 27, 1907

7907 5

$$\begin{array}{r}
 180666 \\
 18 \quad 6 + 660 \\
 8 \quad 8 \quad 0 \quad 44 \\
 \hline
 6 \quad 38w
 \end{array}$$

X Draconis

b 2 2m

$$\begin{array}{r}
 6 \quad 39w \\
 0 \quad 46 \\
 + 66.6
 \end{array}$$

7907 6

$$\begin{array}{r}
 180565 \\
 8 \quad 11
 \end{array}$$

X Draconis

o 4 N

$$\begin{array}{r}
 6 \quad 43w \\
 0 \quad 48 \\
 + 66.5
 \end{array}$$

$$\begin{array}{r}
 204318 \\
 20 \quad 40 + 18.7 \\
 8 \quad 15 \quad 0 \quad 50 \\
 \hline
 4 \quad 10
 \end{array}$$

X Delphinus

81 N

$$\begin{array}{r}
 4 \quad 11w \\
 0 \quad 53 \\
 + 19.6
 \end{array}$$

$$\begin{array}{r}
 021403 \\
 7 \quad 00 \\
 8 \quad 16
 \end{array}$$

o Beti

L.B. Obs naked eye 3.9

F.B. " " " 3.8

$$\begin{array}{r}
 193449 \\
 19 \quad 33 + 49.9 \\
 8 \quad 20 \quad 24 \quad 56 \\
 \hline
 5 \quad 23w
 \end{array}$$

R Cygni

est 13.3

$$\begin{array}{r}
 5 \quad 25w \\
 0 \quad 58 \\
 50.5
 \end{array}$$

Nov. 27, 1907 7907

7907 6

19 40 48 R 5 bygni
 6 23 bst 9.0
 5 20 w
 1 1
 +49.4

19 43 48 J W bygni
 8 25 E 3 N
 5 20 w
 1 3
 +49.5

19 55 49 Z bygni
 19 57 +49.6
 8 27 $\frac{25}{5} \frac{4}{7w}$
 for 4 2 ror
 5 7 w
 1 5
 +50.4

19 46 32 X bygni
 19 41 +32.4
 8 33 $\frac{1}{5} \frac{7}{26w}$
 12.2
 5 25 w
 1 11
 +33.2

20 59 ²3 R Vulpeculae
 20 56 +22.8
 1 13
 8 40 $\frac{4}{4} \frac{17w}{17w}$
 bst 13.2
 4 19 w
 1 18
 +24.2

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7907 6

$$\begin{array}{r}
 220613 \\
 8 \quad 45 \quad 22 \quad 3 + 13.9 \\
 \underline{1 \quad 20} \\
 3 \quad 17 w
 \end{array}$$

Y Pegasi

+ 3 IV

$$\begin{array}{r}
 2 \quad 18 w \\
 1 \quad 21 \\
 + 14.5
 \end{array}$$

$$\begin{array}{r}
 220714 \\
 \underline{22041}
 \end{array}$$

Z Pegasi

8 47

 est h 2, 3 f
~~h 2, 3 f~~ h 6 f 4 e

$$\begin{array}{r}
 2 \quad 18 w \\
 1 \quad 25 \\
 + 14.6
 \end{array}$$

$$\begin{array}{r}
 2104' 29 \\
 8 \quad 54 \quad 20 \quad 59 + 28.5 \\
 \underline{1 \quad 28} \\
 4 \quad 31 w
 \end{array}$$

J Orbygni.

h 2, 2 m

$$\begin{array}{r}
 4 \quad 31 w \\
 1 \quad 32 \\
 + 29.8
 \end{array}$$

$$\begin{array}{r}
 200357 \\
 8 \quad 58 \quad 19 \quad 59 + 57.6 \\
 \underline{1 \quad 33} \\
 5 \quad 34 w
 \end{array}$$

S Orbygni

est 13.2

$$\begin{array}{r}
 5 \quad 33 w \\
 1 \quad 34 \\
 + 58.2
 \end{array}$$

$$\begin{array}{r}
 222129 \\
 9 \quad 2 \quad 22 \quad 18 + 29.8 \\
 \underline{1 \quad 38} \\
 3 \quad 20 w
 \end{array}$$

R V. Pegasi

e 2 29

$$\begin{array}{r}
 3 \quad 20 w \\
 1 \quad 40 \\
 + 30.3
 \end{array}$$

7907 6

Nov. 27, 1907

7907

9 11

21 59 34

Q 3 Pegasi

21 57 +34.5

25 42

~~2 2 Jeta~~3 51w

45

2 47

3 51

1 49

+35.3

9 17

22 59 14

Q 4 Pegasi

24 58 +14.5

1 52

f 2 2h

2 54w

2 57w

55

+15.5

9 22

22 24 39

S Lacertae

22 24 +39.2

25 57

~~9.2~~3 33w

3 36w

2 0

+40.4

9 25

22 38 41

Q Lacertae

22 38 +41.0

26 2

~~11.8~~3 24w

3 25w

2 3

+42.3

9 33

23 58 25

Q 5 Pegasi

23 58 +24.2

2 5

f 2, 2g

2 15w

2 17w

2 11

+25.8

Repair Lights

Nov. 27, 1907 ^{7907 6}

00 18 38

Q Androm

0 15 + 38.0

2 8 w

9 48

2 23

bst 12.2

2 26

X 48 w

+ 38.5

2 8 w

00 58 40

Q X Androm

0 55 + 40.6

1 31 w

9 51

2 28

f 2 29

2 29

1 33 w

+ 41.0

bst. & standards Pole hazy 2

9 58

m 3 ~~at~~ L.V. ^{quite}

2 36 w

Clouds approaching again but not there

38

424

6

45

L.P.P.

-

301

-

7

7912 5

Mon. Dec 2, 1907
 L.C. Ob. P. 7912

Eros

$$\begin{array}{r} 23 \quad 37 \\ 23 \quad 27 \\ \hline 0 \quad 10 \quad 2 \end{array}$$

0 10 2

0 2

Not found with
 certainty, but the object
 at 23 44.5 +28 28 may be Eros
 This was sure after all.

V Sagittae 201520

$$\begin{array}{r} 20 \quad 14 \\ 24 \quad 11 \\ \hline 3 \quad 57 \quad W \end{array}$$

4.12 W

7 19

24 11

21.30

+2.4

3 57 W

O barely seen

0.17

R Delphin 201008

20 10

+8.5

$$\begin{array}{r} 24 \quad 20 \\ 4 \quad 10 \end{array}$$

4 10

Too cloudy here

R X And 005846

$$\begin{array}{r} 0 \quad 5 \quad 5 \\ 0 \quad 42 \\ \hline 0 \quad 13 \quad 2 \end{array}$$

+40.6

22

0.49

7 51

0 42

0 13 2

at h 4.29

+41.5

0.102

X Androm. 001046

7912 6

0 50

+46.0

0 51

$$\begin{array}{r} 0 \quad 51 \\ 0 \quad 44 \quad W \end{array}$$

Var too faint to see

8 14

Dec. 2, 1907

7912 6

RW And. 004132

00 41 +32.2

1 15

0 34 W Var not seen pl. 22

+32.9

1: 25-

W

p 27

m 20.4 p.

p 35 Too cloudy to continue

2

426

L.

2

47

P.P.

-

301

-

7

Thurs Dec. 5, 1907

7915.5

L.C. Obs J.D. 7915

7 02

Mars eye est.
est = Mars 3 Vega. -0.2

7 03

Saturn eye est.
Vega 6 Saturn 2 & Tau $\begin{array}{r} 0.7 \\ 0.9 \\ \hline 0.8 \end{array}$

7 05

o Ceti 021403 eye est 4.0

U Capric. 204215

7 17

 $\begin{array}{r} 20 \ 41 \ -15.4 \\ 24 \ 23 \\ \hline 3 \ 42 \text{ w} \end{array}$
 est 13.5
 var diff to est.
 alt. low

0.27

-15.0

3.45 w

~~U Capric.~~ U Aquarii 204104

7 25

 $\begin{array}{r} 20 \ 39 \ -4.2 \\ 24 \ 29 \\ \hline 3 \ 50 \text{ w} \end{array}$
 est 9.3, 2.2

0.35

-4.2

3.55 w

U Aquarii 215715

7 31

 $\begin{array}{r} 21 \ 54 \ -17.6 \\ 24 \ 37 \\ \hline 2 \ 43 \text{ w} \end{array}$
 est 12.9

0.41

-16.2

2.46 w

7915 5

Dec. 5, 1907

V Sagittae 201520

γ 38 $\begin{array}{r} 20 \ 14 \\ 24 \ 43 \\ \hline 4 \ 29 \text{ W} \end{array}$ +21.4 est 11.8 0:48
 +21.4
 4:33 W

RW Aquilae 200412

γ 48 $\begin{array}{r} 20 \ 7 \\ 24 \ 49 \\ \hline 4 \ 42 \text{ W} \end{array}$ +12.6 est 3, 2 d 0:58
 +13.2
 4:50 W

R Delphin 20100A

γ 53 $\begin{array}{r} 20 \ 10 \\ 24 \ 59 \\ \hline 4 \ 49 \text{ W} \end{array}$ +18.5 130 est 12.8
~~803~~ Var diff trend. 1:3
 +9.2
 4:54 W

Z Delphin 202417

γ 5A $\begin{array}{r} 20 \ 26 \\ 25 \ 04 \\ \hline 4 \ 38 \text{ W} \end{array}$ +16.8 est 11.4 1:8
~~800~~ +17.6
 4:40 W

T Delphin 204016

γ 02 $\begin{array}{r} 20 \ 40 \\ 26 \ 10 \\ \hline 4 \ 20 \end{array}$ +15.5 est 13.4 1:12
 barely seen +16.5
 4:33 W

Dec. 5, 1907 7915

7915 5

St Delfh 203816

8 05-

est k 3 2l

$$\begin{array}{r} 1.15 \\ + 17.3 \\ \hline 4.87 \text{ w} \end{array}$$

V Ceto 235209

7915 6

8 13

$$\begin{array}{r} 23 \ 49 \ -9.8 \\ 25 \ -16 \\ \hline 1 \ 27 \text{ w} \end{array}$$

est < 13.5

$$\begin{array}{r} 1.23 \\ 1.31 \text{ w} \\ -88 \end{array}$$

X Delfh 205017

8 31

$$\begin{array}{r} 20 \ 48 \ +17.4 \\ 25 \ 34 \\ \hline 4 \ 46 \text{ w} \end{array}$$

Var N.S. < 13

$$\begin{array}{r} 1.41 \\ +17.8 \\ \hline 4.51 \text{ w} \end{array}$$
8 32 New Var slightly fol. & N = est = 9.9
St X Cygni 201130

8 37

$$\begin{array}{r} 20 \ 11 \ +31.0 \\ 25 \ 43 \\ \hline 5 \ 32 \text{ w} \end{array}$$

est l var (free)

$$\begin{array}{r} 1.47 \\ +31.3 \\ \hline 5.32 \text{ w} \end{array}$$

RZ Cygni 204846

8 46

$$\begin{array}{r} 20 \ 43 \ +47.2 \\ 25 \ 49 \\ \hline 5 \ 06 \end{array}$$

est 12.5

$$\begin{array}{r} 1.56 \\ +47.7 \\ \hline 5 \text{ w} \end{array}$$

7915 6

211

Dec. 5, 1907

Stands at Pole

Haguer's 2

8 5-7 est n 3 LV.

Z ~~of~~ Cassiop 233956

9 12 $\begin{array}{r} 23 \ 37 \\ 26 \ 09 \\ \hline 2 \ 32 \end{array}$ + 55.6 w est n 3 N

2:22

2:43W

+ 56.4

Y Cassiop 235855

9 20 $\begin{array}{r} 23 \ 56 \\ 26 \ 26 \\ \hline 2 \ 30 \end{array}$ + 54.7 w est o o var

2:30

+ 2:33W

+ 55.2

I ~~B~~ Androm 232244

9 30 $\begin{array}{r} 23 \ 26 \\ 26 \ 32 \\ \hline 3 \ 6 \end{array}$ + 47.7 w est 92, 3 h

2:40

+ 49.2

3:12W

1250

- Androm 233335

9 35 $\begin{array}{r} 23 \ 31 \\ 26 \ 41 \\ \hline 3 \ 10 \end{array}$ + 35.5 w est 22, 3 f

2:45

+ 36.2

3:12W

915 6

Dec. 57, 1907

X Androm 001046

9 40

$$\begin{array}{r} 0 \quad 7 \quad +46 \quad 0 \\ 2 \quad 07 \\ \hline 2 \quad 40 \quad W \end{array}$$
 ext 12.2

2:50

+47.3

2:41W

~~X Cassio 014958~~

Z cephei 021281

9 45

$$\begin{array}{r} 2 \quad 10 \quad +81.4 \\ 2 \quad 52 \\ \hline 0 \quad 42 \quad W \end{array}$$
 ext 11.8

2:55

+81.8

0:45W

T Androm 001726

9 57

$$\begin{array}{r} 0 \quad 17^4 \quad +26.2 \\ 3 \quad 0 \\ \hline 2 \quad 46 \quad W \end{array}$$
 ext 12.0

3:7

+26.8

2:52W

V Androm 004435

10 04

$$\begin{array}{r} 0 \quad 40 \quad +35 \quad 0 \\ 3 \quad 8 \\ \hline 2 \quad 28 \quad W \end{array}$$
 ext 13.4

3:14

+35.8

2:30W

R X And. 005840

10 09

$$\begin{array}{r} 0 \quad 55 \quad +40.6 \\ 3 \quad 15 \\ \hline 2 \quad 20 \quad W \end{array}$$
 ext 3.2m

3:19

+41.4

2 W

7915 0

7915 6

Dec. 5, 1907

25 Cassiop 011272

$$\begin{array}{r}
 10 \ 19 \quad 1 \ 10 \quad +71.4 \\
 \quad \quad 3 \ 20 \quad \text{est } 13.0 (\text{if seen}) \\
 \hline
 \quad \quad 2 \ 10 \text{ W}
 \end{array}
 \quad
 \begin{array}{r}
 3 \ 29 \\
 2 \ 16 \text{ W} \\
 +72.8
 \end{array}$$

y Androm 013338

$$\begin{array}{r}
 10 \ 26 \quad 1 \ 32 \quad +40.0 \\
 \quad \quad 3 \ 32 \quad \text{est } 9.0 \\
 \hline
 \quad \quad 2 \ 0 \text{ W}
 \end{array}
 \quad
 \begin{array}{r}
 3 \ 36 \\
 +139.2 \\
 2 \ 4 \text{ W}
 \end{array}$$

Rk Androm 013238

$$\begin{array}{r}
 10 \ 29 \quad \text{est } 10.2 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 3 \ 39 \\
 +388 \\
 2 \ 8 \text{ W}
 \end{array}$$

X Cassiop 014958

$$\begin{array}{r}
 10 \ 34 \quad 1 \ 46 \quad +58.5 \\
 \quad \quad 3 \ 41 \quad \text{est } 10.7 \\
 \hline
 \quad \quad 1 \ 55 \text{ W}
 \end{array}
 \quad
 \begin{array}{r}
 3 \ 44 \\
 +59.5 \\
 1 \ 55 \text{ W}
 \end{array}$$

W Androm 021143

$$\begin{array}{r}
 10 \ 38 \quad 2 \ 10 \quad +43.6 \\
 \quad \quad 3 \ 45 \quad \text{est } 12.9 \\
 \hline
 \quad \quad 1 \ 35 \text{ W}
 \end{array}
 \quad
 \begin{array}{r}
 3 \ 48 \\
 +440 \\
 1 \ 37 \text{ W}
 \end{array}$$

7915 7

Dec. #5, 1907

R Trianguli 023133

$$\begin{array}{r}
 10 \ 42 \\
 2 \ 27 + 34.0 \\
 3 \ 49 \quad \text{ext } 11.0 \\
 \hline
 1 \ 22 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 3:52 \\
 + 34.3 \\
 \hline
 1:22 \text{ W}
 \end{array}$$

Y Persei 032043

$$\begin{array}{r}
 10 \ 48 \\
 3 \ 22 + 43.8 \\
 3 \ 54 \quad \text{ext } 9.5 \\
 \hline
 0 \ 32 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 3:58 \\
 + 44.3 \\
 \hline
 0:38 \text{ W}
 \end{array}$$

R Persei 032335

$$\begin{array}{r}
 10 \ 53 \\
 3 \ 23 + 35.2 \\
 3 \ 59 \quad \text{ext } 12.2 \\
 \hline
 0 \ 36 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 4:5 \\
 + 35.8 \\
 \hline
 0:42 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 31 \ 457 \\
 3 \ 50 \\
 \hline
 1 \ 301 \\
 \hline
 7
 \end{array}
 \quad \text{L.P.P.}$$

Fri Dec 6, 1907
 LC Ob.

7913 5

JD. 7916

V Magittae 2^h 31.520

7 15- est 12.2

7 20 Clouds

1 45R

—

50

—

301

LRP

—

7

7917 6

Stat. Dec. 7, 1907
 L.C. Allen ID. 7917

St Piscine 011208

9 19 $\begin{array}{r} 1 \text{ } \cancel{8} \text{ } +8.0 \\ 2 \text{ } 14 \\ \hline 1 \text{ } 6 \text{ } w \end{array}$ $\begin{array}{r} 1 \text{ } \cancel{8} \text{ } +8.0 \\ 2 \text{ } 31 \\ \hline 1 \text{ } 23 \text{ } w \end{array}$ Abandoned

U Pisc 011712

9 27 $\begin{array}{r} 1 \text{ } 14 \text{ } +12.0 \\ 2 \text{ } 39 \\ \hline 1 \text{ } 25 \text{ } w \end{array}$ est 11.5 $\begin{array}{r} 1:28 \text{ } w \\ +12 \\ \hline 2:46 \end{array}$

St Pisc 011208

9 31 $\begin{array}{r} 1 \text{ } 8 \text{ } +8.0 \\ 2 \text{ } 47 \\ \hline 1 \text{ } 39 \text{ } w \end{array}$ < 12.7 $\begin{array}{r} +8.8 \\ 2:50 \\ 1:38 \text{ } w \end{array}$

R Piscine 012502

9 37 $\begin{array}{r} 1 \text{ } 20 \text{ } +3.0 \\ 2 \text{ } 52 \\ \hline 1 \text{ } 32 \text{ } w \end{array}$ est 13.2 $\begin{array}{r} 2:56 \\ +3.2 \\ +1:31 \text{ } w \end{array}$

St Arctus 015912

9 44 $\begin{array}{r} 1 \text{ } 55 \text{ } +12.0 \\ 2 \text{ } 57 \\ \hline 1 \text{ } 2 \text{ } w \end{array}$ est < 13.3 $\begin{array}{r} 3:3 \\ +12.4 \\ 1 \text{ } w \end{array}$

7917.6

Dec 7, 1907

M Aneta 030574

9 57 $\begin{array}{r} 3 \quad 3 \quad +14.7 \\ 3 \quad 5 \\ \hline 0 \quad 24 \end{array}$ est 10.0

31.54
+15.2
0.10 W

T Tami 041619

10 35 $\begin{array}{r} 4 \quad 12 \quad +19.0 \\ 3 \quad 20 \\ \hline 0 \quad 52 \end{array}$ E $\begin{array}{r} 4 \quad 12 \\ 3 \quad 42 \\ \hline 0 \quad 242 \end{array}$ est 13.2

Wrong digit for 12

3.54
0.15 E
+19.2

Night very poor, observing diff-
cult throughout evening.

(0.40)

Too hazy & cloudy for S&P Cygn.

Have pier light repaired.

H 462
2 52
= 301
7

R. S. P.

7921 5

Wed. Dec. 11, 1907
 LC Ob. J.D. 7921

γ Aquarii 203705

6 19

$$\begin{array}{r} 20\ 40 - 5.6 \\ 23\ 49 \\ \hline 3\ 9\ w \end{array}$$
 est 2, if
 23.53
 3.14w
 -4.8

ω Aquarii 204104

6 23
 est 9 3 u
 23.57
 3.17w
 -3.8

ζ Capric 210376

6 28

$$\begin{array}{r} 21\ 1 - 16.7 \\ 23\ 59 \\ \hline 2\ 58\ w \end{array}$$
 est 12.8
 0.02
 2.58w
 -16.0

τ Capric 211615

6 33

$$\begin{array}{r} 21\ 14 - 15.2 \\ 24\ 04 \\ \hline 2\ 50\ w \end{array}$$
 est 11.5
 0.07
 2.56w
 -15.4

γ Capric 212414

6 36

$$\begin{array}{r} 21\ 26 - 14.6 \\ 24\ 08 \\ \hline 2\ 42\ w \end{array}$$
 Var 13.5
 0.10
 2.48w
 -14.5

7921 5

Dec 11, 1907

210504 R S Aquarii

$$\begin{array}{r}
 6 \ 40 \quad 21 \ 5 \quad -4.9 \\
 \underline{24 \ 11} \quad \text{est } 11.0 \\
 3 \ 6 \ w
 \end{array}$$

$$\begin{array}{r}
 0.14 \\
 3.14w \\
 -3.8
 \end{array}$$

210903 R R Aquarii

$$\begin{array}{r}
 6 \ 47 \quad 21 \ 8 \quad -3.2 \\
 \underline{24 \ 17} \quad \text{est } h1 \underline{w} \\
 3 \ 9 \ w
 \end{array}$$

$$\begin{array}{r}
 0.21 \\
 3.12w \\
 -2.8
 \end{array}$$

V Magittae 201520

$$\begin{array}{r}
 6 \ 56 \quad 20 \ 14 \quad +21.4 \\
 \underline{24 \ 24} \quad \text{est } n3, 20 \\
 4 \ 10 \ w
 \end{array}$$

$$\begin{array}{r}
 0.30 \\
 +21.4 \\
 4.14w
 \end{array}$$

R Equulei 210812

$$\begin{array}{r}
 7 \ 06 \quad 21 \ 7 \quad +12.5 \\
 \underline{24 \ 32} \quad \text{est } p \# \\
 3 \ 25 \ w
 \end{array}$$

$$\begin{array}{r}
 0.40 \\
 +13.2 \\
 3.32w
 \end{array}$$

X Regasi 211614

$$\begin{array}{r}
 7 \ 09 \quad 21 \ 14 \quad +13.8 \\
 \underline{24 \ 42} \quad \text{est } 10.0 \\
 3 \ 28 \ w
 \end{array}$$

$$\begin{array}{r}
 0.4 \times 3 \\
 3.28w \\
 +14.6
 \end{array}$$

7921 5

Dec. 11, 1907

R Draco 163266

7 18
 16 26 +67.4
 24 46 est 12.5
 8 20 w

0.52
 +67.4
 0.21 w

St Urs Min 153378

7 26
 15 33 +79.0
 24 54 est 11.3
 9 21 w

1.00
 +79.0
 9.25 w

R Can of 142584

7 31
 14 40 +84.2
 25 02 est 13.3
 10. 22 w

1.05
 +84.2
 10.33 w

7 33
 Pole Stars -
 Haze 3 Moon at quarter
 2nd L.V. = 62 L.V.

X Draconis 180666

7 41
 18 6 +65.8
 25 10 est 13.38
 6 4 w

1.15
 +65.8
 +66.6

7931 5

Dec. 11, 1897

W Draconis 180565-

7 43

est 0.3 Var

$$\begin{array}{r} 1:17 \\ +66.3 \\ 7:12W \end{array}$$

U Draconis 190967

1:23

7 49

$$\begin{array}{r} 1912 +67.4 \text{ est } \lambda 3 \text{ Var (seen)} +67.8 \\ 25-19 \\ \hline 6 \quad 7W \\ 6:12W \end{array}$$

7 00

O Ceto 021403

eye est - 4.4
(see about Spect. List)

N. N. Cygnus 213843

8 01

21 37 +43.6

~~7 4~~

$$\begin{array}{r} 25-32 \\ \hline 3 \quad 0.3 \end{array}$$

W est A. P

$$\begin{array}{r} 1:35 \\ +43.8 \\ 3:57W \end{array}$$

N Cygnus 200357

8 09

19 08 +57.7

$$\begin{array}{r} 25-38 \\ \hline 5 \quad 40 \end{array}$$

W est 12.8

$$\begin{array}{r} 5:40W \\ +58.4 \\ 1:43 \end{array}$$

7921 6

Dec. 11, 1907.

R Vulpes 205923

δ 19 $\begin{array}{r} 20\ 58 \\ 25\ 44 \\ \hline 4\ 46\ W \end{array}$ $+22.0$ $\text{est } 12.2$ $\begin{array}{r} 1\ 53 \\ +23\ 8 \\ \hline 4\ 33\ W \end{array}$
 Clouds near region

δ 40 Too cloudy to continue

γ 05 Clear again

γ Cephæ 003179

γ 17 $\begin{array}{r} 0\ 32 \\ 2\ 43 \\ \hline 2\ 11\ W \end{array}$ $+79.4$ $\text{est } 12.0$ $\begin{array}{r} 2\ 16\ W \\ 2\ 51 \\ +80.6 \end{array}$

γ Cephæ 021281

γ 41 $\begin{array}{r} 2\ 0 \\ 2\ 53 \\ \hline 0\ 53\ W \end{array}$ $+81.1$ $\text{est } 13.0$ $\begin{array}{r} 3\ 15 \\ 1\ 1\ W \\ +82.2 \end{array}$

γ Cephæ 022880

γ 47 $\begin{array}{r} 2\ 28 \\ 3\ 16 \\ \hline 0\ 48\ W \end{array}$ $+80.7$ $\text{est } 13.0$ $\begin{array}{r} 0\ 50\ W \\ +81.8 \\ 3\ 21 \end{array}$

7921 6

Dec. 11, 1907

RX Androm 005840

$$\begin{array}{r}
 9 \ 55 \quad 0 \ 55 \quad +40.6 \\
 \underline{3 \ 23} \\
 2 \ 28 \ W
 \end{array}
 \quad \text{est } 2.2 m$$

$$\begin{array}{r}
 3.29 \\
 +41.4 \\
 2.31 W
 \end{array}$$

RW And. 004132

$$\begin{array}{r}
 10 \ 07 \quad 0 \ 41 \quad +32.2 \\
 \underline{3 \ 31} \\
 2 \ 50 \ W
 \end{array}
 \quad \begin{array}{l} n, 30, 4p \\ p = 2 \underline{N} \end{array}$$

$$\begin{array}{r}
 3.41 \\
 +32.2 \\
 2.58 W
 \end{array}$$

U Androm 010940

$$\begin{array}{r}
 10 \ 11 \quad 1 \ 8 \quad +40.2 \\
 \underline{3 \ 42} \\
 2 \ 34 \ W
 \end{array}
 \quad \text{var } < 13.0$$

$$\begin{array}{r}
 3.45 \\
 +40.8 \\
 2.36 W
 \end{array}$$

T Tauri 042209

$$\begin{array}{r}
 10 \ 18 \quad 4 \ 12 \quad +18.9 \\
 \underline{3 \ 47} \\
 0 \ 25 \ E
 \end{array}
 \quad \text{est } 10.0$$

$$\begin{array}{r}
 +19.8 \\
 3.52 \\
 0.23 E
 \end{array}$$

RTauri 042209

$$\begin{array}{r}
 10 \ 23 \quad 4 \ 20 \quad +9.8 \\
 \underline{3 \ 53} \\
 0 \ 27 \ E
 \end{array}
 \quad \text{est } < 13.0$$

$$\begin{array}{r}
 +10.4 \\
 3.57 \\
 0.25 E
 \end{array}$$

7921 6

Dec. 11, 1907

S Tauri 042309

10 30

est 11.2

$$\begin{array}{r} 4.02 \\ +10.3 \\ \hline 0.22 \text{ E} \end{array}$$

R Tauri 043208

10 34

4 31 +7.6

4 03

0 20 E

est 14.2 m

$$\begin{array}{r} 4.06 \\ +8.6 \\ \hline 0.26 \text{ E} \end{array}$$

New Var? North pec. Not seen

V Tauri 044617

10 39

4 42 +17.0

4 08

0 34 E

est 13.0

$$\begin{array}{r} 4.11 \\ +18.2 \\ \hline 0.33 \text{ E} \end{array}$$

7921 7

R Uronis 045307

4 51 +8.0

4 12

0 39 E

Abandoned

10 50

26

7

2

$$\begin{array}{r} 30 \\ 8 \\ \hline 22 \end{array}$$

488

492

6009

307

7

L. P. P.

Thurs. Dec. 12, 1880
L.C. Obs. J.D. 7922

7922 7

π Monoc 05 2404

11 30 $\begin{array}{r} 5 \ 21 \\ 5 \ 06 \\ \hline 0 \ 15 \end{array} \begin{array}{l} -4.8 \\ \text{est } 9.9 \end{array} \begin{array}{l} -4.2 \\ 0.16 \text{ E} \\ 5.8 \end{array}$

τ Monoc 05 3005 a

11 26 $\begin{array}{r} 5 \ 29 \\ 5 \ 02 \\ \hline 0 \ 27 \end{array} \begin{array}{l} -5.6 \\ \text{est } 9.7 \end{array} \begin{array}{l} 0.26 \text{ E} \\ -4.8 \\ 5.04 \end{array}$

τ Lepous 05 00 22

11 34 $\begin{array}{r} 5 \ 0 \\ 5 \ 9 \\ \hline 0 \ 9 \end{array} \begin{array}{l} -22.6 \\ \text{est } 9.0 \end{array} \begin{array}{l} -21.6 \\ 0.11 \text{ W} \\ 5.12 \end{array}$

06 33 08 π Monoc

11 46 $\begin{array}{r} 6 \ 31 \\ 5 \ 13 \\ \hline 1 \ 18 \end{array} \begin{array}{l} +8.9 \\ \text{est } 5.5 \text{ Var} \end{array} \begin{array}{l} 6 \ 33 \\ 5 \ 19 \\ \hline 1 \ 14 \end{array} \begin{array}{l} +10.0 \\ \text{est } 5.5 \text{ Var} \end{array} \begin{array}{l} 1.11 \text{ E} \\ +9.5 \\ 5.24 \end{array}$

ν Monoc 06 17 02

11 52 $\begin{array}{r} 6 \ 16 \\ 5 \ 26 \\ \hline 0 \ 50 \end{array} \begin{array}{l} -3.2 \\ \text{est } 8.3 \end{array} \begin{array}{l} 0.48 \text{ E} \\ -1.6 \\ 5.30 \end{array}$

7922 7

Dec 12, 1907. 7922

Y Monoc 065111

11 58

$$\begin{array}{r} 6 \ 49 \quad +11.5 \\ 5 \ 32 \\ \hline 1 \ 17 \ E \end{array}$$
 est 34.2 d

11.16 E
 +11.9
 51.36

W Monoc 064707

17 02

$$\begin{array}{r} 6 \ 44 \quad -6.4 \\ 5 \ 38 \\ \hline 1 \ 06 \ E \end{array}$$
 est 10.2

11.6 E
 -6.5
 51.40

X Monoc 065208

12 6

$$\begin{array}{r} 6 \ 53 \quad -8.9 \\ 5 \ 41 \\ \hline 1 \ 12 \ E \end{array}$$
 est 8.5

11.9 E
~~11~~
 -8.5
 51.44

V Can Min 070109

12 11

$$\begin{array}{r} 7 \ 01 \quad +8.4 \\ 5 \ 46 \\ \hline 1 \ 15 \ E \end{array}$$
 n 3.2 m
 12th

+9.6
 11.13 E
 5.49

R Can Min 070310

12 13

$$\begin{array}{r} 7 \ 03 \quad +10.2 \\ 5 \ 50 \\ \hline 1 \ 13 \ E \end{array}$$
 est 9.8

+10.8
 11.13 E
 5.51

7922 7

Dec. 12, 1907

RRR Monoc 071201

$$\begin{array}{r}
 12 \ 15 \quad 7 \ 10 \quad +1.5 \\
 \quad \quad 5 \ 52 \quad \text{est } 10.2 \\
 \hline
 \quad \quad 1 \ 18 \ E
 \end{array}$$

$$\begin{array}{r}
 +1.9 \\
 1.19 E \\
 5.54
 \end{array}$$

S^h Can Min 072704

$$\begin{array}{r}
 12 \ 19 \quad 7 \ 20 \quad +4.6 \\
 \quad \quad 5 \ 55 \quad \text{est } 9.5 \\
 \hline
 \quad \quad 1 \ 25 \ E
 \end{array}$$

$$\begin{array}{r}
 1.29 E \\
 +9.2 \\
 5.58
 \end{array}$$

T Can Min 072811

$$\begin{array}{r}
 12 \ 21 \quad 7 \ 26 \quad +12.1 \\
 \quad \quad 5 \ 59 \quad \text{est } 9.7 \\
 \hline
 \quad \quad 1 \ 27 \ E
 \end{array}$$

$$\begin{array}{r}
 1.28 E \\
 +12.7 \\
 6.00
 \end{array}$$

U Can Min 073504

$$\begin{array}{r}
 12 \ 33 \quad 7 \ 33 \quad +8.7 \quad \text{est } 12.9 \\
 \quad \quad 6 \ 01 \\
 \hline
 \quad \quad 1 \ 32 \ E \quad 123 E \\
 \hline
 \quad \quad 6 \ 10
 \end{array}$$

$$\begin{array}{r}
 1.22 E \\
 +9.6 \\
 6.12
 \end{array}$$

R Cameri 081112

$$\begin{array}{r}
 12 \ 42 \quad 8 \ 9 \quad +11.2 \\
 \quad \quad 6 \ 14 \quad \text{est } 8.8 \\
 \hline
 \quad \quad 1 \ 55 \ E
 \end{array}$$

$$\begin{array}{r}
 1.50 E \\
 +9.0 \\
 6.21
 \end{array}$$

7922 Dec 12, 1907

792287

V Cancri 081617

13 08

P 13 +18.0

6 26

1 47 E

est 8.5

P 14 +17.5

6 46

1 32 E

1:29 E

+18.4

6:45

~~R T Andree 082405~~~~P 24 -6.0~~~~6 49~~~~1 35 E~~

U Cancri 083019

13 18

P 29 +19.9

6 51

1 38 E

est 12.4

+19.4

1:36 E

6:55

T Cancri 085120

13 19

P 46 +20.5

6 56

1 50 E

est 9.0

+20.4

1:53 E

6:59

W Cancri 090425

13 23

P 3 +26.0

7 0

2 3 E

est 10.3

2:2 E

+26.0

7:03

Dec 12, 1907

79228x

V Gemini 071713

$$\begin{array}{r}
 13\ 29 \quad 7\ 13 \quad +13.4 \\
 \underline{7\ 5} \quad \text{est } 10.5 \\
 0\ 8\ 2
 \end{array}$$

$$\begin{array}{r}
 0.8\ 2 \\
 +13.5 \\
 7.99
 \end{array}$$

R Gemini 070122a

$$\begin{array}{r}
 13\ 32 \quad 6\ 57 \quad +22.9 \\
 \underline{7\ 10} \quad \text{est } 11.7 \\
 0\ 13\ w
 \end{array}$$

$$\begin{array}{r}
 0.12\ w \\
 +23.4 \\
 7.12
 \end{array}$$

S Gemini 073723

$$\begin{array}{r}
 13\ 35 \quad 7\ 34 \quad +23.8 \\
 \underline{7\ 14} \quad < 12.8 \\
 0\ 20\ 2
 \end{array}$$

$$\begin{array}{r}
 2\ 0.22\ 2 \\
 +24.2 \\
 7.15
 \end{array}$$

T Gemini 074323

$$\begin{array}{r}
 13\ 38 \quad 7\ 32 \quad +24.1 \\
 \underline{7\ 16} \quad \text{est } 9.3 \\
 0\ 22\ 2
 \end{array}$$

$$\begin{array}{r}
 +24.6 \\
 \text{---} \\
 0.26.2 \\
 7.18
 \end{array}$$

U Gemini 074922

$$\begin{array}{r}
 13\ 47 \quad 7\ 48 \quad +22.2 \\
 \underline{7\ 18} \quad \text{est } 2.3\ 2 \\
 0\ 30\ 2
 \end{array}$$

$$\begin{array}{r}
 22.6 \\
 0.24.2 \\
 7.27
 \end{array}$$

7922 8

Dec. 12, 1907 7922

W Puffin 075612

13 54

$$\begin{array}{r} 7 \ 54 \ -12.6 \\ 7 \ 28 \\ \hline 0 \ 26 \ E \end{array}$$
 est 10.5

-12.2
 0:21 E
 7.34

N Hydrene 084803

14 07

$$\begin{array}{r} 8 \ 41 \ +3.1 \\ 7 \ 35 \\ \hline 1 \ 6 \ E \end{array}$$
 est 12.0

1:2 E
 +40
 7.47

RT Hydrene 082605

14 17

$$\begin{array}{r} 8 \ 24 \ -60 \\ 7 \ 48 \\ \hline 0 \ 36 \ E \end{array}$$
 Too cold to continue further

25 513
 1 514
 1 60 L.P.P.
 1 303
 1 7

Tues. Dec 17, 1907

7927 5

L.C. Obs. J.D. 7927

Star Cygnus 213843

21 37 +43.6 11.13
 7 13 25 07 3.33W
 3 30 W est 10.4 +436

Moon nearly at the full.

Stars diff to east

Standards near pole

h 1 L.V.

Hagenian 1/2

7 30.

Sky somewhat hazy & region
 very bright.

1 514 L
 1 61 PP.
 = 303
 7

7931 5

Stat Dec #9 21, 1907
 LC Ob JD 7931

V Sagittae 201520

6 20

20 14 +214

24 32

24 24

4 17W

4 10 W - est 11.6

+215

St Bootis 141954

6 26

14 20 +32.6

24 38

24 35

10 20W

10 15 - W - est 13.8

+54.8

diff West

W Lyrae 181136

6 33

18 9

+36.5

0 45

24 39

46 34W

6 30

W - est 9.8

+37.2

R Lyrae 184134

6 38

18 40

+34.4

0 50

24 47

+35.2

6 7

W - est 9.8

6 10 W

RW Lyrae 184243

6 42

18 40

+33.4

0 54

24 52

6 12W

6 12

est E 2, 2.5

+44.0

13.4

7931 5

Dec 21, 1907

R x Pyra 145032

$$\begin{array}{r}
 18 \ 48 \ +329 \\
 24 \ 56 \\
 \hline
 6 \ 0 \ w
 \end{array}$$

Jan N. P. Hazy here

R x Cygni 213843

$$\begin{array}{r}
 21 \ 37 \ +43.6 \\
 24 \ 59 \\
 \hline
 3 \ 22 \ w \quad \text{est } 120
 \end{array}$$

$$\begin{array}{r}
 1:1 \\
 +43.6 \\
 3:24w
 \end{array}$$

R x Androm 005840

$$\begin{array}{r}
 0 \ 55 \ +40.6 \\
 1 \ 05 \\
 \hline
 0 \ 10 \ w \quad \text{est } 121m
 \end{array}$$

$$\begin{array}{r}
 +41.4 \\
 1:10 \\
 0:12w
 \end{array}$$

R Risc 012502

7931 6

$$\begin{array}{r}
 1 \ 20 \ +30 \\
 2 \ 57 \\
 \hline
 1 \ 37 \ w \quad \text{est } 13.4
 \end{array}$$

$$\begin{array}{r}
 +3.2 \\
 3:2 \\
 1:37w
 \end{array}$$

R ceti 022000

$$\begin{array}{r}
 2 \ 20 \ -1.4 \\
 3 \ 03 \\
 \hline
 0 \ 43 \ w \quad \text{est } 13.0
 \end{array}$$

$$\begin{array}{r}
 -0.4 \\
 0:46w \\
 3:9
 \end{array}$$

Dec. 21, 1907

X Ceto. 031408'

$$\begin{array}{r}
 3 \quad 14 \quad -1.5 \\
 3 \quad 10 \quad \text{est } 12.8 \\
 \hline
 0 \quad 12
 \end{array}$$

$$\begin{array}{r}
 -0.2 \\
 0.22 \\
 3:12
 \end{array}$$

St. Fournac. 034124

$$\begin{array}{r}
 3 \quad 42 \quad -24.2 \\
 3 \quad 13 \quad \text{est } 8.5 \\
 \hline
 0 \quad 29 \quad 2
 \end{array}$$

$$\begin{array}{r}
 -24.5 \\
 0.262 \\
 3:16
 \end{array}$$

U Eridani 034625

est < 12.5

9 15⁻ alt low, some haze

$$\begin{array}{r}
 11 \quad 525 \\
 2 \quad 63 \\
 303 \\
 7
 \end{array}
 \quad \text{pp}$$

7939 5

Sunday Dec 29, 1907

LC Obs ID 7939

V Sagittae 201520

5 50 20 14 +21.4

26 29

4 15 W

cannot see faint stars

Abandoned

Stars near pole extremely 2

5 55

g. LV.

Quit this telescope for tonight.

—
/
—
—

525

64

303

PP.

7

7941 5

Times Dec 31, 1907

LC Abs

J.D. 7941

S S Cygni

213843

est 11.7

7 15

Could barely see Var.
 Small mirror badly discolored

1
 -
 -
 -

526

64

203

7

prop.
 11.7

7942 5

Wed Jan. 1, 1908
~~LD~~ Obs LD. 7942

δ Cygni 213843

7 19 Est 12.0 ($\times 5$ L.V.) 2:16
 +43.6
 4:41 W

γ Cygni 203847

20 34 +47.5
 26 21 Est 11.6
 5 44 W L.V. = 13.6 2:26
 +48.1
 5:51 W

ν Cygni 193449

19 33 +49.9
 26 29 Est 13.5
 6 56 W L.V. = 13.6 2:30
 6:51 W
 +50.3

χ Cygni 194632

19 41 +33.3
 26 31 Obs here
 6 50 W Est 12.0

Pole stars - Hagnier 3

7 41 Small mirror (resilvered today) not
 properly adjusted so cannot find
 pole easily. abandoned

7942 5

Jan 1, 1908

ST Cygni 202954

20 27 +34.3

26 40

6 13 Wext ~~2~~ 3 Var

Var 5 L.V.

floating clars. obs. doubtful & diff.

2:45

+34.0

6:17 W

7 48

7942 6

8 45

Z Androm

23 28 +48.2

27 46

4 18 W~~ext 2~~ 3 h

3:51

4:25 W

+48.8

8 54

ext comp #2 = f 42 49 5 h 3 h 4 l
l 3 m 2 n 40 5 p 30 L.V.

- Androm 233331

23 31 +35.5

27 55

4 24 W

d 3, 02 = Var

3:57

+35.8

4:26 W

9 00

int comp #2 = f 42 49 5 h 3 h 4 l
f 29 4 h 4 h 5 l 3 m 5 n
n 30 5 p 69 1 L.V.

Z Cassio 233956

23 37 +55.6

28 00

4 23 Wn 5 Var (green)
Var 0 L.V.

+56.4

4:10

4:33 W

9 14

7942 6

Jan. 1, 1908.

RR Cassiope 235053

$$\begin{array}{r}
 9 \quad 21 \quad \begin{array}{r} 23 \ 51 \\ 28 \ 12 \\ \hline 4 \ 21 \end{array} \begin{array}{l} +52.5 \\ \\ \end{array} \quad \begin{array}{l} \text{est } 3 \text{ Var} \\ \text{Var } 3 \text{ L.V.} \end{array}
 \end{array}$$

$$\begin{array}{r}
 4:17 \\
 4:29W \\
 +53.8
 \end{array}$$

Y Cassiope 235755-

$$\begin{array}{r}
 9 \quad 27 \quad \begin{array}{r} 23 \ 56 \\ 28 \ 18 \\ \hline 4 \ 22 \end{array} \begin{array}{l} +54 \\ \\ \end{array} \quad \begin{array}{l} \text{est } n's \text{ N.S.} \\ \\ \end{array}
 \end{array}$$

$$\begin{array}{r}
 4:24 \\
 4:30W \\
 +55.8
 \end{array}$$

RX Androm 005840

$$\begin{array}{r}
 9 \quad 33 \quad \begin{array}{r} 0 \ 55 \\ 4 \ 25 \\ \hline 3 \ 30 \end{array} \begin{array}{l} +40.6 \\ \\ \end{array} \quad \begin{array}{l} \text{est Var } 13.2m \\ \\ \end{array}
 \end{array}$$

$$\begin{array}{r}
 4:28 \\
 3:32W \\
 +41.4
 \end{array}$$

X Androm 001046

$$\begin{array}{r}
 9 \quad 38 \quad \begin{array}{r} 0 \ 7 \\ 4 \ 29 \\ \hline 4 \ 22 \end{array} \begin{array}{l} +46.0 \\ \\ \end{array} \quad \begin{array}{l} \text{est } 13.0 = \text{Var} \\ \text{L.V. } 13.5 \\ \text{est } a \ 3 \times 5.6 \end{array}
 \end{array}$$

$$\begin{array}{r}
 +47.2 \\
 4:26W \\
 4:33
 \end{array}$$

Q Androm 001838

$$\begin{array}{r}
 9 \quad 40 \quad \begin{array}{r} 0 \ 10 \\ 4 \ 38 \\ \hline 4 \ 28 \end{array} \begin{array}{l} +37.9 \\ \\ \end{array} \quad \begin{array}{l} \text{est Var} = 13.3 \\ \text{L.V.} = 13.1 \end{array}
 \end{array}$$

$$\begin{array}{r}
 4:25W \\
 +38.6 \\
 4:40
 \end{array}$$

Jan. 1, 1908

9 49

U Cassiope 004047

0 37 +47.4
4 42
4 5 W Var = 13.5
RV. 13.7
4.6 W
+ 46.2
4.44

U Piscium 011712

1 14 +12.0
4 47
3 33 W
aldz

✓ ~~esta~~

10 26

12 +22.2
5 12
2 0 E est. c 4 Var
C- Comp ~~the~~ of R Gen
5.21
+23.0
~~72 E~~
11.37 E

W Aurigae 052036

10 32

5 15 +37.2
5 24
0 9 W
Est 10.0
5.28
+37.2
0.10 W

W Aurigae 052034

10 39

5 16 +34.0
5 29
0 13 W
Est 11.1
8.14 W
5.34
+34.3

Jan. 1, 1908

7942 6

RR Tamm 053326

$$\begin{array}{r}
 10 \ 42 \quad 5 \ 31 \quad +25.0 \\
 \quad \quad 5 \ 34 \quad \text{est } 11.0 \\
 \quad \quad \hline
 \quad \quad 3 \ W
 \end{array}$$

$$\begin{array}{r}
 5.37 \\
 +26.0 \\
 \hline
 0.16 W
 \end{array}$$

S Gemini 073723

7942 7

$$\begin{array}{r}
 10 \ 48 \quad 7 \ 34 \quad +23.8 \\
 \quad \quad 5 \ 39 \quad \text{est } < 13.6 \\
 \quad \quad \hline
 \quad \quad 1 \ 55 \ E
 \end{array}$$

$$\begin{array}{r}
 1.54 E \\
 +23.9 \\
 \hline
 5.43
 \end{array}$$

T Gemini 074323

$$\begin{array}{r}
 10 \ 49 \quad 7 \ 42 \quad +24.4 \\
 \quad \quad 5 \ 42 \\
 \quad \quad \hline
 \quad \quad 2 \ 02 \\
 \quad \quad \text{est } 9.0 \\
 \quad \quad LV = 13.4
 \end{array}$$

$$\begin{array}{r}
 1.56 E \\
 +24.3 \\
 \hline
 5.46
 \end{array}$$

U Gemini 074922

$$\begin{array}{r}
 10 \ 53 \quad 7 \ 48 \quad +22.3 \\
 \quad \quad 5 \ 48 \quad \text{est } 1.5 N.E. \\
 \quad \quad \hline
 \quad \quad 2 \ 0 E
 \end{array}$$

$$\begin{array}{r}
 1.58 E \\
 +22.5 \\
 \hline
 5.50
 \end{array}$$

17 543
4 68 L.P.P.
29 332
17

7943 5

Thurs Jan. 2, 1907.
 L.C. Obs. J.D. 7943

V Sagittae 201520

6 22 $\begin{array}{r} 20 \ 14 \ +21.0 \\ 25 \ 17 \\ \hline 5 \ 3 \ W \end{array}$ est m 4.20 5.17 W
 02 L.V. 1.22

203611 y Delph.

6 25 $\begin{array}{r} 20 \ 35 \ +11.0 \\ 25 \ 25 \\ \hline 4 \ 10 \ W \end{array}$ clds here

W Cygni 201437 b

6 37 $\begin{array}{r} 20 \ 11 \ +37.0 \\ 25 \ 34 \\ \hline 5 \ 23 \ W \end{array}$ est f 32 h 5.23 W
 +37.4
 1.37

R L Cygni 204846

6 45 $\begin{array}{r} 20 \ 43 \ +47.2 \\ 25 \ 39 \\ \hline 4 \ 16 \ W \end{array}$ clds.

6 55 Too cloudy to continue

2 545
 — 68
 — 332
 — 7
 P.P.

7943 4

Thurs Jan. 3, 1907
 L.C. Obs. ^A
 25

7944

δ Cygni 213743

5 24

est 11.9

L.V. = 12.6

0.29
 +43.6
 2.52W

η Lyrae 191637

5 34

19 14 +37.2
 24 34 est 43.3
 5 20W +3 L.V.

0.39
 +3.0
 5.23W

γ Delphinium 203611

5 39

20 35 +11.0
 24 41 est 11.4
 4 6W L.V. 13.2

4.8W
 +11.8
 0.44

ζ Delph 202417

5 45

20 26 +16.8 est 8.6
 24 46
 4 20W

0.49
 4.21W
 +17.4

τ Delph 204016

5 49

20 40 +15.2
 24 50 est mfp = 13.5
 4 10W

4.12W
 +16.2
 0.53

7943.6x

Jan 3, 1908

S' Deesh. 203816

5 50

h1, 2 l

4:16 W
+17.4
0:55

A V Delph 204818

5 53

$$\begin{array}{r} 2040 + 18.7 \\ 2457 \\ \hline 417 \text{ W} \end{array}$$
 est 8.1 W
4:16 W
+19.3
0:55

V Sagitt 201520

6 03

$$\begin{array}{r} 2014 + 21.4 \\ 2459 \\ \hline 441 \text{ W} \end{array}$$
 est 3.20
4:53 W
+21.2
1:18

V Pegasi 215605

6 7

$$\begin{array}{r} 2153 + 6.0 \\ 2510 \\ \hline 317 \text{ W} \end{array}$$
 est 10.0
1:12
+6.2
3:17 W

R Aquarii 233815

6 13

$$\begin{array}{r} 2335 - 16.2 \\ 2515 \\ \hline 140 \text{ W} \end{array}$$
 est 9.5
1:40 W
-15.8
1:18

7943.5

Jan. 3, 1908.

Z Aquarii 234716

$$\begin{array}{r}
 6 \quad 17 \quad 23 \quad 45 \quad -17.2 \\
 \underline{25 \quad 19} \quad \text{est } 8.5 \\
 1 \quad 34 \quad W
 \end{array}$$

$$\begin{array}{r}
 1:35 W \\
 -16.8 \\
 1:22
 \end{array}$$

W Ceti 235715

$$\begin{array}{r}
 6 \quad 23 \quad 23 \quad 57 \quad -16.0 \\
 \underline{25 \quad 23} \quad \text{est } 9.5 \\
 1 \quad 26 \quad W
 \end{array}$$

$$\begin{array}{r}
 1:24 W \\
 -15.4 \\
 1:27
 \end{array}$$

V Ceti 235209

$$\begin{array}{r}
 6 \quad 26 \quad 23 \quad 50 \quad -9.8 \\
 \underline{25 \quad 30} \quad \text{est } 9.8 \\
 1 \quad 40 \quad W
 \end{array}$$

$$\begin{array}{r}
 -9.6 \\
 1:42 W \\
 1:31
 \end{array}$$

U Urs Min 141567

$$\begin{array}{r}
 6 \quad 32 \quad 14 \quad 15 \quad +67.4 \\
 \underline{25 \quad 35} \quad \text{est } 2.29 = 11.0 \\
 1 \quad 20 \quad W
 \end{array}$$

$$\begin{array}{r}
 +68.0 \\
 11:22 W \\
 1:32
 \end{array}$$

R Camelopard 142544

$$\begin{array}{r}
 6 \quad 38 \quad 14 \quad 40 \quad +84.2 \quad \text{est } 11.7 \\
 \underline{25 \quad 40} \\
 1 \quad 10 \quad W \quad \text{LV } 13.3
 \end{array}$$

$$\begin{array}{r}
 1:11 W \\
 +84.6 \\
 1:42
 \end{array}$$

7943 5

Jan. 3, 1948

X Delph. 205017

6 45-
$$\begin{array}{r} 20 \text{ L.A.} + 17.2 \\ 25 \text{ CC} \\ \hline 4 \text{ 56 W} \end{array}$$
 Est $X = 130 = \text{Sun Var.}$
$$\begin{array}{r} 5.1 \text{ W} \\ + 17.4 \\ \hline 11.50 \end{array}$$

$\bar{X} = \text{est compl var north fol} = 9.8$
 J Regas 231504

7943 6

8 35-
$$\begin{array}{r} 23 \text{ 13} + 7.2 \\ 27 \text{ 25} \\ \hline 4 \text{ 12 W} \end{array}$$
 Est 13.5
 Var at L.V.

$$\begin{array}{r} 3.40 \\ + 8.6 \\ \hline 11.26 \text{ W} \end{array}$$

R Lacerta 223844

8 40
$$\begin{array}{r} 22 \text{ 35} + 41.6 \\ 27 \text{ 43} \\ \hline 5 \text{ 8 W} \end{array}$$
 Est Var = 130
 L.V. = 13.3

$$\begin{array}{r} 3.4 \text{ V} \\ 5.7 \text{ W} \\ + 4.2 \text{ Z} \end{array}$$

X Caphei 210342

8 47
$$\begin{array}{r} 21 \text{ 8} + 12.5 \\ 27 \text{ 44} \\ \hline 6 \text{ 40 W} \end{array}$$
 Est 25 $\frac{11}{2}$

$$\begin{array}{r} 6.56 \text{ W} \\ + 8.2 \\ \hline 3.52 \end{array}$$

Z Ceti 010102 est Var ~~20~~ = 22 var

9 15
$$\begin{array}{r} 1 \text{ 0} - 2.5 \\ 4 \text{ 8} \\ \hline 3 \text{ 8 W} \end{array}$$
 as 6603 d 4e
 as 3242 h 4 n 5 b
 mod 100

-1.8
 4.20
 3.20 W

7943 0
7943 6

Jan. 3, 1908

u Rise. 011712

9 25 1 14 +11.9 est 11.8
 4 24
 3 10 w LV. 13.0

3:14 w
 +127
 4:30

RW And. 004132

9 30 0 41 +32.2
 4 31
 3 50 w
 03 w 7p
 004431 V Androm

4:36
 3:56 w
 +327

9 42 0 40 +35.0 est 12.2
 4 40
 4 0 w LV. 13.3

4:6 w
 +35.6
 4:47

RR And. 004533

9 45 0 43 +33.4
 4 49
 4 6 w
 est 12.2

4:6 w
 +34.3
 4:50

RX And. 005240

9 50 0 55 +40.6 est 9'4.2 h
 4 55
 4 0 w m 6 LV.

3:58 w
 +41.4
 4:50

7943 6

Jan. 3, 1908

010940 U Androm

9 56 1 8 +40.1 3.53 W
 4 58 est < 13.4 +40.5
 3 50 W 5.1

W Androm 021143

10 05 2 9 +43.5
 5 3 cant find region
 2 54 W

γ Cephei 003179

10 8 0 22 +79.4 +79.9
 5 12 est 13.2 4.42 W
 4.40 W 5.13

δ Cassio. 011272

10 13 1 5 +71.0 4.9 W
 5 15 est 13.4 +73.0
 4 10 W 5.1 A
 2 V. 13.6

R Rensel 032335

10 20 3 23 +35.0 2.8 W
 5 23 +36.0
 2 0 W 5.25
 2 V. 13.7

Jan 3, 1908

7943 6

Nov Per No 2 032443

10 24

$$\begin{array}{r} 3 \ 18 + 439 \\ 5 \ 26 \\ \hline 2 \ 08 \text{ W} \end{array}$$

Test to 1 m
L.V. = X3

$$\begin{array}{r} 2 \ 18 \text{ W} \\ + 44.3 \\ \hline 5 \ 29 \end{array}$$

T Camelop 043065

10 40

$$\begin{array}{r} 4 \ 21 + 659 \\ 5 \ 31 \\ \hline 1 \ 10 \text{ W} \end{array}$$

Can't identify

Fix table lamp

10 42

o ceto eye est = 5.4

$$\begin{array}{r} 2 \ 18 \\ 4 \\ 10 \\ \hline \end{array}$$
$$\begin{array}{r} 573 \\ 72 \\ 342 \\ \hline 7 \end{array}$$

L.P.P.

Wed. Jan. 8, 1908
 L.C. Obs. ID. 7949

Dis. Jup. I. 28"

Ent of dis = 9:10:15 by C's watch

C's watch = 8 sec fast

Could not get good images
 in photos. in time to make
 settings. Sat. dis. close to
 Jup. making time of dis. off some
 what uncertain.

(Friday) Jan. 10, 1908.

7945 5

LC Obs.

JD 7951 5" telescope

7951 5

R X Tauri 043208

(see note at end.)

4 31 +7.6 2:46
 7 15 2 41 est 13 N 1:47 E
 1 50 E +5.7

est of comp 2. a 2 b 4 c 5 d 4 e
 e 5 f 4 h 3 g 5 k 4 l

004746 RV Cassio.

2 4348 6 a 4 b 3 c 2 d 4 e 3

7 39

0 44 +47.3
 2 49

0 36 +47.2
 3 06

2 5 W

2 30 W

c 2, 0 d - Var

213843 8.5" origin.
 est 11.5

7 33

3:3
 5:16 W
 +44.4

Y Androm. 013338

7 56

1 32 +40.0
 3 24
 1 52 W

est 9.5

+3.4
 1:47 W
 3:26

RU And. 013238

7 58

est 10.2

+3.93
 1:50 W
 3:28

Jan. 10, 1908

7951 5

X Cassiopeiae 014958

$\begin{array}{r} 148 + 58.9 \\ 330 \\ \hline \end{array}$
 $\begin{array}{r} 340 \\ 1241 w \\ + 59.0 \end{array}$

~~142 w~~ est 105
142 w

U Renss 015254

7951 6

$\begin{array}{r} 153 + 54.0 \\ 343 \\ \hline \end{array}$
 $\begin{array}{r} 345 \\ 144 w \\ + 54.3 \end{array}$

150 w est 8.5

R Tring. 023133

$\begin{array}{r} 227 340 \\ 347 \\ \hline \end{array}$
 $\begin{array}{r} 1163 \\ + 335 \\ 351 \end{array}$

120 w est 9.2

W Tauri. 042215

$\begin{array}{r} 420 + 15.7 \\ 418 \\ \hline \end{array}$
 $\begin{array}{r} 420 \\ 0142 \\ + 15.8 \end{array}$

020 est 9.2

W Tauri 042309

$\begin{array}{r} 422 + 16.0 \\ 422 \\ \hline \end{array}$
 $\begin{array}{r} 018 \\ + 9.8 \\ 424 \end{array}$

00 est 11.5 coincident

7951 6

Jan. 10, 1908

RR Persei 022150

9 13 2 16 +494 4.45
 4 42 Var N.E. < e 2.16 W
 2 26 W +512
 a 2 b 6 c 3 d 3 d' 5 e

9 15 Cld's.

9 30 More clouds again.

9 582
 2 74 P.P.P.
 21 363
 - 7

Note; - These observations on this date were all made with the 5" telescope "on the roof" but by mistake were recorded in the wrong book.

08-1-11.

L. Campbell.

Mon Jan. 13, 1908

LC. Ob. 2x" JD. 7954

By 135

Clearer now

RX And. 005840

0 55 +40.6

3 35

2 40 ~~40~~

7 55

clds

800

Too cloudy to observe now

7955 5

Thurs. Jan. 14, 1908

PC Obs 24" JD 7955

SV Cygni 200357

7 02 ~~20~~ 19 53 +56.4 est 10.7
 26 45 LV. 12.8
 6 52 W 2:50
 6:47 W
 +58.2

U Draco. 190967

7 09 19 12 +67.4
 26 52 est < 12.5
 7 40 W 2:57
 7:47 W
 +67.7

RV Pegasi 222129

7 19 22 18 +29.8
 26 58 h's, 1 l
 4 40 W l 3 LV.
 3:07
 4:47 W
 +30.3

SV Cygni 213843

7 24 21 37 +43.6
 27 09 est 12.0
 5 32 W LV. 12.6
 3:12
 4:34 W
 +43.7

RT Pegasi 215934

7 42 21 58 +34.4
 27 35 3:35
 5 27 W 5:31
 +35.2
 3:43.0

7955 5

Jan. 14 1908

204846

RZ Cygni

7 49

$$\begin{array}{r} 20\ 43 \\ 27\ 33 \\ \hline 6\ 50\ w \end{array}$$

+47.2

est < 12.3

3:37

5:49 w
+47.4

Clds about

RX Androm

005840

7 55

$$\begin{array}{r} 0\ 55 \\ 3\ 39 \\ \hline 2\ 44\ w \end{array}$$

+40.6

Abandoned
for the present
Moon shines
in tube

7955 6

Y Ceph

003179

8 20

$$\begin{array}{r} 0\ 30 \\ 3\ 45 \\ \hline 3\ 15\ w \end{array}$$

+79.3

< 122

Clds about

4:04

3:36 w

+80.4

Rst Ws May

123457

8 48

$$\begin{array}{r} 12\ 23 \\ 4\ 28 \\ \hline 7\ 53\ e \end{array}$$

+59.4

est 24.39

X: 36

+59.5

8:12

Y Draco . 093178

9 17

$$\begin{array}{r} 9\ 29 \\ 4\ 38 \\ \hline 4\ 57\ e \end{array}$$

+78.7

est < 12.2

X: 32.2

+78.3

5:55

7955 6

Jan. 14 1908

Expos. with photon.

Phot. needs a good cleaning.

5-	597	P.P.P.
4	81	
—	363	
—	7	

Wed. Jan. 15, 1908

L.C. Alb

2x"

Dis Jup I.

Phot. meas. L.C. Alb.

www. Rec

Cs watch 10² slow at 10:52:00 EDTTelescope shaded^{set} at 6.90

Sat seen through clouds.

" "

2.80

clouds.

Still seen.

3.30

Clouds again.

Still seen.

3.52

3.52

seen

seen

clouds.

sust.

sat. certainly gone.

Observation throughout
thru clouds.Cs watch used = 10² slow
at 11:10:00 EDT

7963 5

Wed. Jan 22, 1908
 LC Ob 24" JD. 7963.

2nd Cygni 213843

6 50

21 37 +43.6

27 07

15 30 W

est 12.0

LV. 2 5 LV.

3.11
 +43.6
 5.34 W

RPogasi 230110

7 00

23 0 +8.6

27 14

4 14 W

est 12.2

LV. 14.2

+10.5
 3.21
 4.22 W

RW Regasi 225914

7 06

22 58 +14.5

27 22

4 24 W

est at 23 f

3.26
 4.28 W
 +150

at comp ~~h~~ 394 k slum 5 in 305 p 12.4

Large Mirror resilvered & replaced in tube
 today according to W.W.W.

201130 2nd X Cygni

7 13

20 11 +31.0

27 24

7 17 W

est 13.1 W

Vanbaugh seen

3.33
 +30 A
 7.23 W

WX Cygni 201437 f

7 16

20 12 +37.5

27 34

7 42 W

est 2.2 f

seeing poor

+38.3
 7.25 W
 3.36

Jan. 22, 1908.

u X Cygni 205030

+30.6

7 21

20 50 + 29.6

3:41

27 38

est $\theta 2, 3 \theta'$

6:57W

6 48W

LV = a 3

TW Cygni 210129

3:48

7 28

20 57 + 28.5

6:49W

27 43

est $\theta 3, 3 w$

+29.0

6 46 W

T Pegasi 220412

3:54

7 34

22 1 + 12.0

est $\theta 2, 3 e$

+12.5

27 49

5:52W

5 48W

y Pegasi 220613

22 3 + 13.9

3:57

27 55

y = tivar

+14.4

5 52W

varsup only

5:52W

Gschon Rd.

R Pegasi 220714

7 38

a 2, 2/3

var bright

7963 5

Jan 22, 1908

S' Lacertae 222439

47
 22 24 +39.2
 28 00
 5 36 W LV $\times 3$

4:07
 +402
 5:46

R Lacertae 223441

752
 22 37 +41.0
 28 09
 5 32 W LV $\times 2, 24$
 14th

4:12
 +424
 5:36

V Cassiop 230759

7963 6

812
 23 4 +58.5
 28 20
 5 24 W lbm 4m 60
 LV = 55 LV

5:28 W
 +59.5
 4:32

Z Cassiop 233956

818
 23 37 +55.5
 28 34
 4 57 W
 m 5/2 6 l 4 m 50
 est 55 V an
 o added tonight

+56 P
 5:01 W
 4:3 P

VRR Cassiop 235053

23 50 +52.9

28 40
 4 50 W

abandoned
 for the present

7963 6

Jan. 22, 1808

γ Cass. 233853

$$\begin{array}{rcl}
 23 \ 56 & +54.7 & 4' 53W \\
 28 \ 46 & \text{est n 5} & +55.8 \\
 \hline
 4 \ 50 \ W & & 4.48
 \end{array}$$

RX Androm. 005840

$$\begin{array}{rcl}
 0 \ 55 & +40.6 & 4' 57 \\
 4 \ 55 & \text{est 11.4} & 4' 2W \\
 \hline
 4 \ 0 \ W & & +41.6 \\
 & \text{LV. 14.0} &
 \end{array}$$

Z Ceto 010102

$$\begin{array}{rcl}
 1 \ 0 & -2.5 & 4' 5W \\
 43 \ 5 \ 0 & \text{est 12.4} & -1.6 \\
 \hline
 4 \ 0 \ W & & 5.5 \\
 & \text{LV 13.5} &
 \end{array}$$

R Piscum 012502

$$\begin{array}{rcl}
 1 \ 20 & +3.0 & 5.9 \\
 5 \ 06 & \text{est 13.6} & 3.44W \\
 \hline
 3 \ 46 \ W & & +2.8 \\
 & \text{LV 13.9} &
 \end{array}$$

R Ceto 022000

$$\begin{array}{rcl}
 2 \ 20 & -1.5 & 2:56W \\
 5 \ 10 & \text{est 13.0} & -0.4 \\
 \hline
 2 \ 50 \ W & & 5.16 \\
 & \text{LV. 13.2} &
 \end{array}$$

7963 6

77

Jan 22, 1908

X Ceto 031401

$$\begin{array}{r}
 9 \text{ } 00 \quad 3 \ 11 \text{ --- } 15 \text{ --- } \text{est } 10.0 \\
 \underline{5 \ 17} \\
 2 \ 6 \text{ w ---} \quad \text{L.V. } 13.3
 \end{array}$$

$$\begin{array}{r}
 2.8 \text{ w} \\
 - 1.3 \\
 \hline
 5.120
 \end{array}$$

T Tauri 041619

$$\begin{array}{r}
 9 \ 4 \quad 4 \ 13 \text{ --- } +19.2 \text{ --- } \text{est } 11.2 \\
 \underline{5 \ 23} \\
 1 \ 10 \text{ w ---} \quad \text{L.V. } 13.0
 \end{array}$$

$$\begin{array}{r}
 1.10 \text{ w} \\
 + 19.6 \\
 \hline
 5.124
 \end{array}$$

R Tauri 042209

$$\begin{array}{r}
 9 \ 7 \quad 4 \ 20 \text{ --- } +9.8 \quad R = < 13.0 \\
 \underline{5 \ 25} \\
 1 \ 5 \text{ w ---}
 \end{array}$$

$$\begin{array}{r}
 \text{Selouet} \\
 1.6 \text{ w} \\
 + 10.4 \\
 \hline
 5.129
 \end{array}$$

9 9 over 309 V. Tauri est = 11.0

RX Tauri 0443209

$$\begin{array}{r}
 9 \ 16 \quad 4 \ 31 \text{ --- } +7.6 \\
 \underline{5 \ 31} \\
 1 \ 0 \text{ w ---} \quad \text{RX = est } 9.3 \text{ Var.}
 \end{array}$$

$$\begin{array}{r}
 5.136 \\
 1.15 \text{ w} \\
 + 8.6 \\
 \hline
 \end{array}$$

9 17 New Var. = 5.05

V Tauri 044617

$$\begin{array}{r}
 9 \ 08 \quad 4 \ 43 \text{ --- } +17.1 \text{ --- } \text{est } 10.2 \\
 \underline{6 \ 16} \\
 1 \ 33 \text{ w ---} \quad \text{L.V. } 12.5
 \end{array}$$

$$\begin{array}{r}
 1.133 \text{ w} \\
 + 17.8 \\
 \hline
 6.18
 \end{array}$$

7963 6

Jan. 22, 1907

29.1907 - Aurigae

$$\begin{array}{r}
 10.02 \\
 5 \quad 40 \quad +31.5 \\
 \underline{6 \quad 20} \\
 0 \quad 40 \quad 15
 \end{array}$$

Haze & cold

U Monor 0549 20

$$\begin{array}{r}
 10.0K \\
 5 \quad 46 \quad +20.2 \\
 \underline{6 \quad 22} \\
 0 \quad 36 \quad W
 \end{array}$$

0:38 W
+20 P
6:24

$$\begin{array}{r}
 10.0V \\
 \text{Star } \gamma = 10.5 \\
 R \text{ Monor } 06330A
 \end{array}$$

$$\begin{array}{r}
 10.10 \\
 6 \quad 33 \quad +10.0 \\
 \underline{6 \quad 26} \\
 0 \quad 07 \quad E
 \end{array}$$

0.3 E
+9.3
6:30

at 12.0

J 8 a 5 a 6 b

10.15 clars

$$\begin{array}{r}
 287 \quad 614 \\
 2 \quad 43 \\
 11 \quad 374 \\
 \hline
 7
 \end{array}$$

L.P.P.

7975 5

Mon Feb 3, 1908

LC Obs JD. 7975

S S Cygnus 213843

21 37 + 43.6

28 07

7 06

6 30 W — est S.S.

LV. 12.6

4.13

6.36 W

+44.0

— Andromeda 233335

23 31 + 35.0

28 26

7 22

4 55 W

est C3, 30

LV = 02

4.56 W

~~4.56~~

7.36.2

4.29

Z Androm 232848

23 28 + 48.3

28 31

7 28

5 3 W

91.5 h

h.5 LV.

4.35

5.18 W

+49.3

RR Cassiopeae 235053

23 51 + 52.5

28 36

7 31

4 45 W

est < 12.5

4.38

+54.2

4.48 W

S Riscum 011208

1 8 + 10

4 39

7 50

3 31 W

est 11.2

LV. 12.6

+74

4.59

3.48 W

7975 5

Feb 3, 1908

U Riscum 011712

7 58

1 14 +12.0 Var < 127
 5 00
 3 46 w

+13.4
 3 55
 3.48 w

R & And 005840

8 1

0 55 +40.6
 5 07 est 12.6
 4 12 w LV. 128

5.10
 4.12 w
 +4.7

X Androm 001046

8 17

0 7 +46.0
 5 12 Var < 12.7
 5 5 w

5.16
 5.7 w
 +4.2

Haze thicker

U Cassiop 004047

7975 6

8 22

0 36 +47.4 est 11.3
 5 26
 4 50 w cldr came

8 50

all cloudy

6 620
 3 86
 1 374 L.P.P.
 1 7

Tues. Feb. 4, 1908
 LC Obs. 12 7976 ^{7976 5}

Y Cephæi 00 3179

7 36 0 30 +79.4
4 42 est 2330
 4 12 W 25 L.V.

4:15 W
 +81.2
 4:49

2nd Cass 01 1272

7 41 1 2 +720
4 57 est 130
 3 43 W L.V. 135

4:35 X
 3:41 W
 +734

015912 2nd Analeto

7 56 1 55 +11.2
5 5 est 132
 3 10 W L.V. 134

3:10 W
 +13.1
 5:19

W Cass 00 495A

8 5 0 46 +58.2
5 10 est 10.6
 4 24 W L.V. 13.0

4:29 W
 +59.2
 5:18

005840 2nd X Analeto

7976 6
 8 24 8 55 +40.6
5 32 est 12.7
 4 43 W

4:42 W
 +42.2
 5:40

7976 6

Feb 4, 1907

N Tauri 04309

$$\begin{array}{r}
 32 \quad 419 \quad +96 \quad +11.2 \\
 \hline
 542 \\
 123 \quad W
 \end{array}$$

1.25 hr
+10 at
514 hr

33 $\sqrt{2}$ Tauri est 13.2

Rhinos

$$\begin{array}{r}
 40 \quad 450 \quad +79 \\
 \hline
 550 \\
 100
 \end{array}$$

Down to zero
too cold to continue

$$\begin{array}{r}
 7 \quad 627 \\
 \hline
 374 \quad L.P.P. \\
 \hline
 7
 \end{array}$$

7979 5

Friday Feb 7, 1908
 LBCBs JD 7987

005846 R X Androm

42 00 55 +406 4.4
 6 ~~37~~ 3 ~~55~~ est 130 3.6 W
 3 00 W RV 13.2 +41.2

V Androm 00V435-

6 45 0 40 +35.2 4.07
 4 05 Var < 13.3 3.25 W
 3 25 W +35.2

RR Androm 00K533

6 57 0 43 +33.5 4.19
 4 11 Var < 12.0 3.35 W
 3 28 W Hazy +34.0

U Arietes 030574

3 3 +14.4 4.46
 4 43 est 8.0 1.42 W
 7 25 1 40 W L.V. 12.5 +14.2
 Near Moon

R Orionis 045307

4 53 +7.6 4 42 +6.6 +9.3
 4 48 5-12 5.21
 6 55 W 0.20 W
 0 30 W
 0 30 E est 9.3

7979 5

Feb. 7, 1908

V Orionis 050003

$$\begin{array}{r} 4 \text{ 58} + 3.8 \\ 5 \text{ 23} \\ \hline 0 \text{ 25} \end{array} \quad \begin{array}{l} \text{est } 12.8 \\ \text{w LV } 13.2 \end{array} \quad \begin{array}{l} 5.24 \text{ w} \\ + 4.9 \\ 5.16 \end{array}$$

R Persei 032335

$$\begin{array}{r} 3 \text{ 22} + 35.2 \\ 5 \text{ 28} \\ \hline 2 \text{ 6} \end{array} \quad \begin{array}{l} \text{est } 13.0 \\ \text{LV } 13.1 \end{array} \quad \begin{array}{l} 2.6 \text{ w} \\ + 3.6 \\ 5.31 \end{array}$$

7979 6

W Aurigae 052036

$$\begin{array}{r} 5 \text{ 15} + 37.2 \\ 5 \text{ 35} \\ \hline 0 \text{ 20} \end{array} \quad \begin{array}{l} \text{est } 10.2 \\ \text{LV } 13.0 \end{array} \quad \begin{array}{l} 5.36 \\ + 0.16 \text{ w} \\ + 37.8 \end{array}$$

21 Aurigae 053531

$$\begin{array}{r} 5 \text{ 31} + 34.0 \\ 5 \text{ 38} \\ \hline 0 \text{ 7} \end{array} \quad \begin{array}{l} \text{est } 12.2 \\ \text{LV } 13.0 \end{array} \quad \begin{array}{l} 5.41 \\ 0.6 \text{ w} \\ + 33.2 \end{array}$$

29.1907 — Aurigae 054231

$$\begin{array}{r} 5 \text{ 40} + 31.5 \\ 5 \text{ 42} \\ \hline 0 \text{ 2} \end{array} \quad \begin{array}{l} \text{est } 4.3 \text{ d} \\ \text{LV } 13.0 \end{array} \quad \begin{array}{l} 0.6 \text{ w} \\ + 32.4 \\ 5.47 \end{array}$$

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

7979 6

Feb 7, 1908

2 Aurigae 052034

$$\begin{array}{r}
 8 \ 25 \quad 5 \ 16 \quad +34.0 \\
 \underline{5 \ 49} \\
 0 \ 33 \text{ W}
 \end{array}$$

$$\begin{array}{l}
 \text{est } 11.0 \\
 \text{LV. } 13.0
 \end{array}$$

$$\begin{array}{l}
 +35.3 \\
 5.51 \\
 0.32 \text{ W}
 \end{array}$$

2 Tauri 0524615

$$\begin{array}{r}
 8 \ 33 \quad 5 \ 42 \quad +142 \\
 \underline{5 \ 52} \\
 0 \ 10 \text{ W}
 \end{array}$$

$$\begin{array}{l}
 \text{est } 23 \text{ R} \\
 \underline{\underline{\quad}}
 \end{array}$$

$$\begin{array}{l}
 0.12 \text{ W} \\
 +16.4 \\
 5.59
 \end{array}$$

2 Aurigae 055353

$$\begin{array}{r}
 8 \ 50 \quad 0 \ 50 \quad +53.5 \\
 \underline{6 \ 13} \\
 0 \ 23 \text{ W}
 \end{array}$$

$$\begin{array}{l}
 \text{est } 10.2
 \end{array}$$

$$\begin{array}{l}
 +54.6 \\
 6.16
 \end{array}$$

V Camelopard 054974

$$\begin{array}{r}
 9 \ 00 \quad 5 \ 45 \quad +73.9 \\
 \underline{6 \ 18} \\
 0 \ 33 \text{ W}
 \end{array}$$

$$\begin{array}{l}
 \text{est } 13.0
 \end{array}$$

$$\begin{array}{l}
 +75.4 \\
 0.37 \text{ W} \\
 6.26
 \end{array}$$

RR Tauri 053326

$$\begin{array}{r}
 9 \ 10 \quad 5 \ 31 \quad +25.8 \\
 \underline{6 \ 20} \\
 0 \ 57 \text{ W}
 \end{array}$$

$$\begin{array}{l}
 \text{est } 11.4 \\
 \text{LV. } 13.2
 \end{array}$$

$$\begin{array}{l}
 1.1 \text{ W} \\
 +27.4 \\
 6.36
 \end{array}$$

7979 6

Feb. 7, 1908

X Arcturus 060458

$$\begin{array}{r}
 6 \quad 1 \quad + 50.0 \\
 6 \quad 37 \\
 \hline
 0 \quad 36 \quad w
 \end{array}
 \quad
 \begin{array}{l}
 \text{est } 13.2 \\
 \text{LV } 13.3
 \end{array}$$

$$\begin{array}{r}
 + 57.3 \\
 0.38w \\
 6.42
 \end{array}$$

21 Rynois 063558

$$\begin{array}{r}
 6 \quad 34 \quad + 57.3 \\
 6 \quad 44 \\
 \hline
 0 \quad 10 \quad w
 \end{array}
 \quad
 \begin{array}{l}
 \text{est } 22 \text{ Var} \\
 (k 50425m)
 \end{array}$$

$$\begin{array}{r}
 0.14w \\
 + 5.88 \\
 6.53
 \end{array}$$

$$\begin{array}{r}
 14 \quad 641 \\
 3 \quad 89 \quad p.p. \\
 - \quad 7
 \end{array}$$

7983 7

Tues. Feb. 11, 1908
 L.C. Obs. J.D. 7983

X Hydree 09 30 14 est 10.3

12 29

$$\begin{array}{r} 9 \quad 30 \quad -14.2 \\ 10 \quad 05 \\ \hline 0 \quad 35 \text{ W} \end{array}$$

-13.4
 10.09
 0.39 W

2 RR Pyxis 09 00 24 est 9.0

12 33

$$\begin{array}{r} 9 \quad 3 \quad -25.3 \\ 10 \quad 11 \\ \hline 1 \quad 8 \text{ W} \end{array}$$

-24.0
 10.13
 1.13 W

RR Hydree 09 40 23 est 13.0

12 39

$$\begin{array}{r} 9 \quad .36 \quad -23.2 \\ 10 \quad 14 \\ \hline 0 \quad 38 \text{ W} \end{array}$$

-22.9
 10.18
 0.39 W

Y Hydree 09 46 22 est 6.5

12 43

$$\begin{array}{r} 9 \quad 46 \quad -22.5 \\ 10 \quad 20 \\ \hline 0 \quad 34 \text{ W} \end{array}$$

-21.8
 10.22
 0.37 W

V Hydree 10 46 20 est 12.0

12 48

$$\begin{array}{r} 10 \quad 46 \quad -19.6 \\ 10 \quad 23 \\ \hline 0 \quad 23 \text{ E} \end{array}$$

-20.2
 10.28
 0.18 E

Feb. 11, 1908

W Lewis 104814 Est 13.0

+13.2

10.34

0.142

12 54

10 44 +14.6

10 30

0 142

Pl Lewis 110506 Est 10.2

+7.2

10.39

0.252

12 59

11 01 +6.0

10 35

0 262

T Can Ven. 122532 Est 12.5

+33.0

10.43

1.422

7983 8

13 03

12 24 +32.2

10 41

1 432

Pl Bootes 141954 Est 10.5

+53.3

10.50

3.292

13 09

14 21 +54.3

10 45

3 362

R Comae 115919 Est 13.3

+20.2

10.54

1.22

13 14

11 56 +20.2

10 51

1 322

7983 8

Feb. 11, 1908

T Virginis 120905 Est 12.2

-4.6

11:01

1:04 E

$$\begin{array}{r}
 12 \quad 9 \quad -5.0 \\
 10 \quad 5-6 \\
 \hline
 1 \quad 13 \quad E
 \end{array}$$

S S Virg 122001 Est Var 5 a

+3.0

1:12 E

11:07

$$\begin{array}{r}
 12 \quad 17 \quad +2.0 \\
 11 \quad 03 \\
 \hline
 1 \quad 14 \quad E
 \end{array}$$

R = 9

Y Virginis 122803 Est 12.3

1:17 E

-2.8

11:11

$$\begin{array}{r}
 12 \quad 26 \quad -3.6 \\
 11 \quad 09 \\
 \hline
 1 \quad 17 \quad E
 \end{array}$$

R Virginis 123307 Est 7.0

1:17 E

+8.6

11:17

$$\begin{array}{r}
 12 \quad 34 \quad +7.6 \\
 11 \quad 12 \\
 \hline
 1 \quad 22 \quad E
 \end{array}$$

R N Virginis 124204 Est 9.5

1:22 E

+5.8

11:19

$$\begin{array}{r}
 12 \quad 41 \quad +4.3 \\
 11 \quad 17 \\
 \hline
 1 \quad 24 \quad E
 \end{array}$$

7983 8

~~Feb 11, 1908~~

M Virginis 124606 Est < 130

$$\begin{array}{r}
 12 \ 42 \ +6.0 \\
 13 \ 42 \ 11 \ 20 \\
 \hline
 1 \ 22 \ 2
 \end{array}$$

$$\begin{array}{r}
 1:23 \text{ E} \\
 +7.0 \\
 11:22
 \end{array}$$

RT Virginis 125705 Est 82

$$\begin{array}{r}
 12 \ 55 \ +5.4 \\
 13 \ 46 \ 11 \ 24 \\
 \hline
 1 \ 31 \ \text{E}
 \end{array}$$

$$\begin{array}{r}
 1:33 \text{ E} \\
 +6.8 \\
 11:26
 \end{array}$$

R Corvi 121412 Est 12.2

$$\begin{array}{r}
 12 \ 12 \ -12.5 \\
 13 \ 50 \ 11 \ 27 \\
 \hline
 0:45 \ \text{E}
 \end{array}$$

$$\begin{array}{r}
 -12.2 \\
 0:44 \ \text{E} \\
 11:30
 \end{array}$$

RV Virginis 130212 Est < 126

$$\begin{array}{r}
 13 \ 0 \ -12.4 \\
 13 \ 53 \ 11 \ 31 \\
 \hline
 1 \ 29 \ \text{E}
 \end{array}$$

$$\begin{array}{r}
 1:28 \\
 -11.8 \\
 11:33
 \end{array}$$

V Virginis 132202 Est 2

$$\begin{array}{r}
 13 \ 24 \ -2.3 \\
 13 \ 59 \ 11 \ 34 \\
 \hline
 1 \ 50 \ \text{E}
 \end{array}$$

$$\begin{array}{r}
 1:40 \ \text{E} \\
 -1.8 \\
 11:39
 \end{array}$$

7983 8

Feb 11, 1908

St Virgins 132706 Est 9.6

$$\begin{array}{r}
 13 \quad 24 \quad -55 \\
 11 \quad 41 \\
 \hline
 1 \quad 43 \quad \Sigma
 \end{array}$$

$$\begin{array}{r}
 -5.8 \\
 11:44.2 \\
 11:42
 \end{array}$$

R Virgins 135908 Est < 13.0

$$\begin{array}{r}
 13 \quad 57 \quad -8.5 \\
 11 \quad 44 \\
 \hline
 2 \quad 13 \quad \Sigma
 \end{array}$$

$$\begin{array}{r}
 2:11.2 \\
 -7.4 \\
 11:44
 \end{array}$$

R Bootis 143227 Est 9.2

$$\begin{array}{r}
 14 \quad 37 \quad +27.2 \\
 12 \quad 00 \\
 \hline
 2 \quad 37 \quad \Sigma
 \end{array}$$

$$\begin{array}{r}
 2:29.2 \\
 +27.2 \\
 12:03
 \end{array}$$

V Bootis 142539 Est 7.4

$$\begin{array}{r}
 14 \quad 26 \quad +39.0 \\
 12 \quad 04 \\
 \hline
 2 \quad 22 \quad \Sigma
 \end{array}$$

$$\begin{array}{r}
 +40.2 \\
 2:19.2 \\
 12:06
 \end{array}$$

R Coronae 150020 Est 6.4

$$\begin{array}{r}
 15 \quad 42 \quad +20.4 \\
 12 \quad 08 \\
 \hline
 3 \quad 34 \quad \Sigma
 \end{array}$$

$$\begin{array}{r}
 +29.6 \\
 12:11 \\
 3:31 \quad \Sigma
 \end{array}$$

7983 8

Feb. 11, 1908

V Corona 154539 Est 86

$$\begin{array}{r}
 14 \ 34 \quad 15 \ 44 + 40.1 \\
 \underline{12 \ 12} \\
 3 \ 32 \ 2
 \end{array}$$

$$\begin{array}{r}
 + 40.1 \\
 12.14 \\
 3.31 \ 2
 \end{array}$$

N Corona 151731 Est 89

$$\begin{array}{r}
 14 \ 3 \quad 15 \ 16 + 33.3 \\
 \underline{12 \ 16} \\
 3 \ 0 \ 2
 \end{array}$$

$$\begin{array}{r}
 + 32.2 \\
 3.10 \ 2 \\
 12.17
 \end{array}$$

W Bootis 144918 Est 11.7

$$\begin{array}{r}
 14 \ 40 \quad 14 \ 48 + 18.3 \\
 \underline{12 \ 18} \\
 2 \ 30 \ 2
 \end{array}$$

$$\begin{array}{r}
 + 19.2 \\
 2.29 \ 2 \\
 12.20
 \end{array}$$

Z Bootis 140113 Est 13.0

$$\begin{array}{r}
 14 \ 48 \quad 13 \ 57 + 13.5 \\
 \underline{12 \ 23} \\
 1 \ 34 \ 2
 \end{array}$$

$$\begin{array}{r}
 + 14.2 \\
 1.34 \ 2 \\
 12.22
 \end{array}$$

R Virginis 142205 Est 11.6

$$\begin{array}{r}
 14 \ 52 \quad 14 \ 23 + 5.4 \\
 \underline{12 \ 29} \\
 1 \ 54 \ 2
 \end{array}$$

$$\begin{array}{r}
 + 6.2 \\
 1 \ 2 \\
 12.32
 \end{array}$$

7983 8

Feb. 11, 1908

R Hydrae

132422

Est P.P.

0.432

-22.0

12:39

1459

13 20 -21.6

12 34

0 462140572

Z Virginis Est 13.3

1.222

-11.9

12:43

7983 9

14 02 -12.6

12 42

1 202

1503

S Serpentes

151714 Est 13.2

+15.6

12:50

2:20E

1510

15 19 +16.0

12 45

2 34E

R Serpentes

154615 Est 13.0

+16.2

12:57

2:47E

1517

15 44 +15.2

12 52

2 52E

U Herculis

162119 Est 12.8

+20.2

13:02

3:18E

1522

16 15 +19.5

13 00

3 15E

7983 9

Feb. 11, 1908

W Herc. 163137 Est 10.8

15 26

$$\begin{array}{r} 16 \quad 30 \quad +37.3 \\ 13 \quad 04 \\ \hline 3 \quad 26 \quad \text{E} \end{array}$$

$$\begin{array}{r} +38.6 \\ 13.06 \\ 3.25 \text{E} \end{array}$$

R Herculis 160118 Est 12.8

15 29

$$\begin{array}{r} 16 \quad 2 \quad +17.5 \\ 13 \quad 7 \\ \hline 2 \quad 55 \quad \text{E} \end{array}$$

$$\begin{array}{r} +19.5 \\ 13.9 \\ 2.55 \text{E} \end{array}$$

RW Herc. 160625 Est < 13.0

15 32

$$\begin{array}{r} 16 \quad 4 \quad +26.0 \\ 13 \quad 11 \\ \hline 2 \quad 53 \quad \text{E} \end{array}$$

$$\begin{array}{r} +25.5 \\ 13.12 \\ 2.53 \text{E} \end{array}$$

R Draco 163266 Est 9.5

16 03

$$\begin{array}{r} 16 \quad 26 \quad +67.4 \\ 13 \quad 38 \\ \hline 2 \quad 48 \quad \text{E} \end{array}$$

$$\begin{array}{r} +69.2 \\ 13.44 \\ 2.53 \text{E} \end{array}$$

RV Herc. 165631 Est < 13.5

16 09

$$\begin{array}{r} 16 \quad 53 \quad +31.1 \\ 13 \quad 45 \\ \hline 3 \quad 10 \text{E} \end{array}$$

$$\begin{array}{r} +32.3 \\ 13.49 \\ 3.08 \text{E} \end{array}$$

7983 9

Feb. 11, 1908

✓ Librae 143417 Est 12.2

$$\begin{array}{r}
 16 \frac{1}{2} 7 \quad 14 \ 32 \ -17.0 \\
 \underline{13 \ 52} \\
 0 \ 40 \ 2
 \end{array}$$

$$\begin{array}{r}
 13:38.2 \\
 -16.2 \\
 \hline
 13:57
 \end{array}$$

f Librae 150605 Est 11.5

$$\begin{array}{r}
 16 \ 2 \frac{0}{4} \quad 15 \ 4 \ * -5.0 \\
 \underline{13 \ 58} \\
 1 \ 6 \ 2
 \end{array}$$

$$\begin{array}{r}
 1:55.2 \\
 -4.6 \\
 \hline
 14:01
 \end{array}$$

R T Librae 150018 Est 13.2

$$\begin{array}{r}
 16 \ 24 \quad 14 \ 58 \ -18.6 \\
 \underline{14 \ 03} \\
 0 \ 55 \ 2
 \end{array}$$

$$\begin{array}{r}
 0:55.2 \\
 -17.4 \\
 \hline
 14:05
 \end{array}$$

T Librae 150519 Est 13.2

$$\begin{array}{r}
 16 \ 27 \quad 15 \ 4 \ -19.2 \\
 \underline{14 \ 6} \\
 0 \ 58 \ 2
 \end{array}$$

$$\begin{array}{r}
 -18.8 \\
 0:57.2 \\
 \hline
 14:08
 \end{array}$$

S Librae 151520 Est 13.3

$$\begin{array}{r}
 16 \ 31 \quad 15 \ 12 \ -18.8 \\
 \underline{14 \ 10} \\
 1 \ 2 \ 2
 \end{array}$$

$$\begin{array}{r}
 1:32 \\
 -19.2 \\
 \hline
 14:12
 \end{array}$$

Feb 11, 1908

R. Schae 15122 Est. 0

$$\begin{array}{r}
 16 \ 34 \\
 15 \ 14 - 22 \ 4 \\
 \underline{14 \ 14} \\
 1 \ 08
 \end{array}$$

$$\begin{array}{r}
 11.28 \\
 -21.8 \\
 \hline
 14.15
 \end{array}$$

R. Schae 15271X Est. 12.0

$$\begin{array}{r}
 16 \ 41 \\
 15 \ 28 - 14.3 \\
 \underline{14 \ 15} \\
 1 \ 12.8
 \end{array}$$

$$\begin{array}{r}
 1.62 \\
 -14.2 \\
 \hline
 14.22
 \end{array}$$

39

620

8

97

L.P.P.

—

7

(true) Feb. 18, 1908
 1990 5 DE Ob & Rec ~~7990~~

X Androm 001046 ~~est~~ < 13.2

$$\begin{array}{r} 07 + 460 \\ 531 \\ \hline 524 W \end{array}$$

$$\begin{array}{r} + 47.6 \\ 5:36 \\ \hline 5:26 W \end{array}$$

R Androm 001838 Est 13.2

LV 13.4

$$\begin{array}{r} 011 + 379 \\ 538 \\ \hline 527 W \end{array}$$

$$\begin{array}{r} + 39.2 \\ 5:40 \\ \hline 5:21 W \end{array}$$

RW And 004132 Est < 13.2

$$\begin{array}{r} 041 + 32.2 \\ 542 \\ \hline 51 W \end{array}$$

$$\begin{array}{r} + 33.4 \\ 5:49 \\ \hline 5:17 W \end{array}$$

R Androm 005840 Est 13.0

$$\begin{array}{r} 055 + 40.6 \\ 550 \\ \hline 455 W \end{array}$$

$$\begin{array}{r} 4:54 W \\ + 42.2 \\ \hline 5:53 \end{array}$$

010940 U Androm est 13.1

$$\begin{array}{r} 18 + 40.0 \\ 534 \\ \hline 446 W \end{array}$$

$$\begin{array}{r} + 41.2 \\ 4:44 W \\ \hline 5:58 \end{array}$$

7990 5

Feb 18, 1908

X Cassiope 014918 Est 9.5

7 54

$$\begin{array}{r} 146 \\ 559 \\ \hline 413 \end{array} \text{ W}$$

$$\begin{array}{r} 4:12 \text{ W} \\ +60.2 \\ \hline 6:00 \end{array}$$

7990 6

W Andromeda 021143 Est <130

9 0662
8 14
$$\begin{array}{r} 24 \\ 64 \\ \hline 40 \end{array} \text{ W} +436$$

$$\begin{array}{r} 4:9 \text{ W} \\ +45.2 \\ \hline 6:20 \end{array}$$

X Cetus 031401 Est 9.0

8 21

$$\begin{array}{r} 311 \\ 621 \\ \hline 310 \end{array} \text{ W} -1.5$$

$$\begin{array}{r} -0.4 \\ 6:27 \\ \hline 3:16 \text{ W} \end{array}$$

R. Cetus 022000 Est 9.8

8 26

$$\begin{array}{r} 214 \\ 629 \\ \hline 410 \end{array} \text{ W} -0.4$$

$$\begin{array}{r} +0.2 \\ 6:32 \\ \hline 1:16 \text{ W} \end{array}$$
~~R. P. + Lepus~~ 050022 ~~Est 9.8~~

8 35

$$\begin{array}{r} 50 \\ 633 \\ \hline 133 \end{array} \text{ W} -22.6$$

Est 10.3

$$\begin{array}{r} -21.4 \\ 1:39 \text{ W} \\ \hline 6:41 \end{array}$$

7990 6

Feb 18, 1908

V Orionis 050003 Est 12.3

458 +3.6

1.50 W

6 41

+4.9

1 47 W

6.50

S Orionis 052404 Est 12.3

5 22 -4.4

1.30 W

6 52

-3.4

1 30 W

6.53

T Orionis 053005 Est 9.5

5 28 -5.6

1.26 W

6 54

-4.6

1 26 W

6.55

W Monoc 064707 Est 10.3

6 45 -6.8

-5.4

6 55

0 10 W

0.11 W

W Tauri 042215 Est 9.2

4 24 +15.6

+16.7

6 59

2.39 W

2 36 W

7.02

Feb. 18, 190A

R Arctis 021024 Est 9.8

9 13

$$\begin{array}{r} 2 \quad 8 \quad +24.4 \\ 7 \quad 1.2 \\ \hline 5 \quad 10 \quad w \end{array}$$

$$\begin{array}{r} +26.2 \\ 5.10w \\ \hline 7.19 \end{array}$$

R Trianguli 023133 Est 6.2

9 17

$$\begin{array}{r} 2 \quad 27 \quad +34.0 \\ 7 \quad 20 \\ \hline 4 \quad 53 \quad w \end{array}$$

$$\begin{array}{r} 4.52w \\ +35.2 \\ \hline 7.23 \end{array}$$

T Tauri 041619 Est 11.2

9 24

$$\begin{array}{r} 4 \quad 11 \quad +19.0 \\ 7 \quad 25 \\ \hline 3 \quad 14 \quad w \end{array}$$

$$\begin{array}{r} +20.4 \\ 3.17w \\ \hline 7.30 \end{array}$$

R X Tauri 043208 Est m3 11

9 27

$$\begin{array}{r} 4 \quad 31 \quad +7.6 \\ 4 \quad 31 \\ \hline 3 \quad 5 \end{array}$$

Newstar? N.S.

$$\begin{array}{r} +9.2 \\ 7.33 \\ \hline 3.1w \end{array}$$

V Tauri 044617 Est 9.8

9 31

$$\begin{array}{r} 4 \quad 42 \quad +17.0 \\ 7 \quad 35 \\ \hline 2 \quad 53 \quad w \end{array}$$

$$\begin{array}{r} +18.6 \\ 7.37 \\ \hline 2.52w \end{array}$$

Feb 18, 1908

7990 6

R Orion 045307 Est 9.5

$$\begin{array}{r}
 4 \ 54 + 7.6 \\
 7 \ 40 \\
 \hline
 2 \ 46 \text{ W}
 \end{array}$$

+9.3

7:45

2:52 W

U Orion 054920 Est 11.0

Est Star 9 = 10.0

$$\begin{array}{r}
 5 - 46 + 20.2 \\
 7 \ 46 \\
 \hline
 2 \ 0 \text{ W}
 \end{array}$$

+21.4

2:1 W

7:50

V Gemini 071713 Est 9.3

$$\begin{array}{r}
 7 \ 13 + 13.4 \\
 7 \ 51 \\
 \hline
 0 \ 38 \text{ W}
 \end{array}$$

+14.2

0:42 W

7:58

T Can Min 072811 Est 12.8

$$\begin{array}{r}
 7 \ 27 + 12.0 \\
 7 \ 59 \\
 \hline
 0 \ 32 \text{ W}
 \end{array}$$

+12.8

A. 26

Too hazy 9:58 W

Chosen when obs. was made

U Can Min 073508

$$\begin{array}{r}
 7 \ 33 + 8.7 \\
 7 \ 27 \\
 \hline
 0 \ 54 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 20' \ 700' \\
 45' \ 107'
 \end{array}$$
Haze too thick
to continue

L.P.P.

7992 5

Thurs Feb. 20, 1908

LC. Obs.

JD 7994² 7992 5

S. Riscum 011208 Est 10.2

7 25 — 1 P 1 P. 0
 5 30
 4 22 W

4.28 W
 + 12.4
 5.40

U Ceto 022813 Est P.P.

7 38 — 2 27 - 13.0
 5 42
 3 15 W

- 12.4
 3.16 W
 5.45

Z Ceto 010102

1 0 - 2.5 Too low
 5 46
 4 46 W

R Riscum 012502 Est 12.7

> 39 — 1
 1 20 + 3.0
 5 49
 4 29 W

4.29 W
 + 3.2
 5.54

V Cassio 230759 Est 2.2 R

7 46 — 23 4 + 58.5
 29 56
 6 52 W

+ 60.2
 6.54 W
 6.1

7992 5

Feb. 20, 1908

Z Androm 232444 Est 93.5h

$$\begin{array}{r}
 23 \ 27 \ +46.2 \\
 30 \ 03 \\
 \hline
 6 \ 36 \ w
 \end{array}$$

$$\begin{array}{r}
 +49.2 \\
 6 \ 5 \\
 \hline
 6 \ 37 \ w
 \end{array}$$

— Androm 233331 — Est 94.5g

$$\begin{array}{r}
 23 \ 33 \ +35.5 \\
 30 \ 08 \\
 \hline
 6 \ 35 \ w
 \end{array}$$

$$\begin{array}{r}
 +36.3 \\
 6 \ 35 \ w \\
 \hline
 6 \ 08
 \end{array}$$

Z Cassio 233956 Est < 12.7

$$\begin{array}{r}
 23 \ 37 \ +53.5 \\
 30 \ 10 \\
 \hline
 6 \ 33 \ w
 \end{array}$$

$$\begin{array}{r}
 +57.2 \\
 6 \ 32 \ w \\
 \hline
 6 \ 12
 \end{array}$$

R Cassio 235350 Est 23var

$$\begin{array}{r}
 23 \ 52 \ +58.0 \\
 30 \ 14 \\
 \hline
 6 \ 22 \ w
 \end{array}$$

$$\begin{array}{r}
 +58.0 \\
 6 \ 22 \ w \\
 \hline
 6 \ 15
 \end{array}$$

Y Cassio 233855 Est 120

$$\begin{array}{r}
 23 \ 56 \ +54.7 \\
 30 \ 16 \\
 \hline
 6 \ 20 \ w
 \end{array}$$

$$\begin{array}{r}
 +56.2 \\
 6 \ 21 \ w \\
 \hline
 6 \ 19
 \end{array}$$

Feb. 20, 1908

RR Cassiope 235053 Var. 128 < 123

$$\begin{array}{r} \delta \quad 18 \\ 2350 + 52.9 \\ 30 \quad 22 \\ \hline 6 \quad 32W \end{array}$$

$$\begin{array}{r} +53.8 \\ 6:38W \\ 6:25 \end{array}$$

V Androm 004435 — Est 103

$$\begin{array}{r} \delta \quad 15 \\ 0 \quad 42 + 34.6 \\ 6 \quad 22 \\ \hline 5 \quad 46W \end{array}$$

$$\begin{array}{r} +36.2 \\ 5:46W \\ 6:30 \end{array}$$

RR Androm 004533 Est < 12 A

$$\begin{array}{r} \delta \quad 22 \\ 0 \quad 43 + 33.4 \\ 6 \quad 33 \\ \hline 5 \quad 50W \end{array}$$

$$\begin{array}{r} +35.3 \\ 5:57W \\ 6:37 \end{array}$$

RV Cassiope 004746 ~~Est~~ < 12 A

$$\begin{array}{r} \delta \quad 51 \\ 0 \quad 44 + 46.8 \\ 7 \quad 00 \\ \hline 6 \quad 46W \end{array}$$

$$\begin{array}{r} +46.3 \\ 6:21W \\ 7:06 \end{array}$$

RV And 005840 Est 12 A

$$\begin{array}{r} \delta \quad 55 \\ 0 \quad 53 + 40.6 \\ 7 \quad 08 \\ \hline 6 \quad 13W \end{array}$$

$$\begin{array}{r} +42.2 \\ 6:12W \\ 7:10 \end{array}$$

7992 6

Feb. 20, 1908

R Monoc 063308 Est 11.6

$$\begin{array}{rcl}
 6 & 33 & +10.0 \\
 7 & 13 & \\
 \hline
 0 & 40 & W
 \end{array}
 \quad
 \begin{array}{rcl}
 & & +9.8 \\
 & & 7:16 \\
 & & 0:44 W
 \end{array}$$

Y Monoc 065711 Est 12.8

$$\begin{array}{rcl}
 6 & 49 & +11.5 \\
 7 & 19 & \\
 \hline
 0 & 30 & W
 \end{array}
 \quad
 \begin{array}{rcl}
 & & +12.8 \\
 & & 0:36 W \\
 & & 7:26
 \end{array}$$

— Aurigae 060347 Est 15.2

$$\begin{array}{rcl}
 6 & 2 & +47.4 \\
 7 & 28 & \\
 \hline
 1 & 26 & W
 \end{array}
 \quad
 \begin{array}{rcl}
 & & +48.8 \\
 & & 1:31 W \\
 & & 7:37
 \end{array}$$

X Gemini 064030 Est 12.0

$$\begin{array}{rcl}
 6 & 36 & +31.0 \\
 7 & 38 & \\
 \hline
 1 & 2 & W
 \end{array}
 \quad
 \begin{array}{rcl}
 & & +31.3 \\
 & & 1:2 W \\
 & & 7:42
 \end{array}$$

R S Gemini 065530 Est 10.9

$$\begin{array}{rcl}
 6 & 54 & +29.5 \\
 7 & 44 & \\
 \hline
 0 & 50 & W
 \end{array}
 \quad
 \begin{array}{rcl}
 & & +31.7 \\
 & & 0:36 W \\
 & & 7:50
 \end{array}$$

Feb. 20, 1992

9 40

V Can Min 070109 Est 72

7 0 + 0.2

$$\begin{array}{r} 7.52 \\ 7.52 \\ \hline 0.52 \end{array}$$

w

long region

1.51 W

+ 1.06

7.55

RR Monoc 071201 Est 132

9 48

7 10 + 1.5

$$\begin{array}{r} 7.58 \\ 7.58 \\ \hline 0.48 \end{array}$$

0.48 w

1.51 W

+ 2.4

8.03

V Can Min 072708 Est 126

9 51

7 19 + 0.6

$$\begin{array}{r} 7.05 \\ 7.05 \\ \hline 0.46 \end{array}$$

0.46 w

+ 9.6

1.39 W

8.16

V Can Min 073508 Est 9.0

9 57

7 33 + 0.7

$$\begin{array}{r} 8.09 \\ 8.09 \\ \hline 0.36 \end{array}$$

0.36 w

0.37 W

+ 9.8

8.12

V Can Min 073723 Est 12.8

10 13

7 32 + 27.9

$$\begin{array}{r} 8.14 \\ 8.14 \\ \hline 0.12 \end{array}$$

0.12 w

0.53 W

+ 24.6

8.28

7992 6

Feb 20, 1908

T 9 em. 074323 Ext 9.2

(0 18

$$\begin{array}{r} 742 + 24.1 \\ 830 \\ \hline 048 W \end{array}$$

$$\begin{array}{r} 0.50 W \\ + 25.4 \\ \hline 26.9 \end{array}$$

U 9 em. 074922 Ext 12.2

L 2661
7992 7

(0 47

$$\begin{array}{r} 748 + 22.4 \\ 835 \\ \hline 047 W \end{array}$$

$$\begin{array}{r} + 23.3 \\ 1.12 W \\ \hline 9.2 \end{array}$$

$$\begin{array}{r} 19 \\ 7 \end{array} \quad \begin{array}{r} 720 \\ 109 \end{array} \quad L.P.P.$$

(2568) Feb. 22, 1908

7994 5

RC Obs. 25 7994
U Piccium 011712 est 13.5

7 19

1	14	+12.0	+13.3
5	36		44.24W
4	22	W	5.41

St Anthon 015912 Est 12.0

7 25

1	55	+12.0	+13.3
5	45		3.45
3	50	W	5.47

St Laurent 222439 est 13.0

7 30

22	24	+39.2	+44.0F
29	44		5.52
7	24	W	7.27W

R Laurent 223841 est 13.6

7 33

22	38	+41.0	+42.6
29	54		7.17W
7	16		5.55

T Cether 210868 est 9.0

7 38

21	5	+67.5	+69.2
29	58		8.54W
8	53	W	6.00

Feb. 22, 1908

7994-5

U Cass. 004007 Est 10.3

$$\begin{array}{r}
 742 \quad 0 \ 57 \ +47.4 \\
 \underline{6 \ 02} \\
 5 \ 25 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 5.26 \text{ W} \\
 +48.8 \\
 \hline
 6.14
 \end{array}$$

R X Androm 005750 Est 13.0

$$\begin{array}{r}
 748 \quad 0 \ 55 \ +40.6 \\
 \underline{6 \ 5} \\
 5 \ 10 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 5.11 \text{ W} \\
 +42.2 \\
 \hline
 6.10
 \end{array}$$

W Cassio 004958 Est 10.3

$$\begin{array}{r}
 751 \quad 0 \ 47 \ +58.4 \\
 \underline{6 \ 11} \\
 5 \ 24 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 +59.3 \\
 5.26 \text{ W} \\
 \hline
 6 \ 13
 \end{array}$$

Y Androm 013338 Est 12.8

$$\begin{array}{r}
 755 \quad 1 \ 32 \ +40.0 \\
 \underline{6 \ 14} \\
 4 \ 42 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 4.46 \text{ W} \\
 +40.2 \\
 \hline
 6.17
 \end{array}$$

R U And 013238 Est 13.4

756

$$\begin{array}{r}
 4.47 \text{ W} \\
 +39.6 \\
 \hline
 6.18
 \end{array}$$

Feb 22, 1908

R Leporis 045514 est 11.0

δ 07 4 55 -14.9
 6 20

 2.5w

-13.6
 1.36w
 6.29

R Tauri 042209 est 11.2

7994 6

δ 12 4 20 +7.6
 6 30

 2 10w

+11.2
 2.12w
 6.34

R Tauri 042209 est 11.0

 δ 14

+10.8
 2.12w
 6.36

V Monoc 061702 est p 3 var

δ 22 6 16 -3.1
 6 40

 0 24w

-1.4
 0.24w
 6.44

R Can Min 070310 est 8.6

δ 25 7 1 +10.0
 6 45

 0 16E

0.16E
 +11.2
 6.47

7994 6

Feb. 22, 1908

u Gemin 0749 22 est 0.1 Var

$$\begin{array}{r}
 7 \text{ } 50 + 22.3 \\
 6 \text{ } 50 \\
 \hline
 1 \text{ } 00 \text{ E}
 \end{array}$$

$$\begin{array}{r}
 +23.3 \\
 0.57 \text{ E} \\
 6.51
 \end{array}$$

V Aurigae 061647 est 9.0

$$\begin{array}{r}
 6 \text{ } 16 + 45.0 \\
 6 \text{ } 53 \\
 \hline
 0 \text{ } 37 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 +49.2 \\
 0.44 \text{ W} \\
 7.3
 \end{array}$$

T Camelop 043064- est 8.4

$$\begin{array}{r}
 4 \text{ } 21 + 64.9 \\
 7 \text{ } 04 \\
 \hline
 2 \text{ } 43 \text{ W}
 \end{array}$$

$$\begin{array}{r}
 2.34 \text{ W} \\
 +67.4 \\
 7 \text{ } 08
 \end{array}$$

u Cancri 083019 est 12.6

$$\begin{array}{r}
 8 \text{ } 29 + 19.8 \\
 7 \text{ } 10 \\
 \hline
 1 \text{ } 19 \text{ E}
 \end{array}$$

$$\begin{array}{r}
 1.16 \text{ E} \\
 +20.4 \\
 7.15
 \end{array}$$

W Cancri 090425- est 12.1

$$\begin{array}{r}
 9 \text{ } 3 + 26.0 \\
 7 \text{ } 17 \\
 \hline
 1 \text{ } 46 \text{ E}
 \end{array}$$

$$\begin{array}{r}
 1.44 \text{ E} \\
 +26.6 \\
 7.19
 \end{array}$$

7994 6

Feb 22, 1908

X Ursae May 01.3350 est 11.0

9 05- 8 30 +50.3 1.62
 7 20 +51.3
 1 102 x est 5-26d 7.27

21 741
 — 109 R.P.P.

7996 5

7996 6

Mon. Feb 24, 1908

LC Obs JD 7996
 RV Pegasus 222129 est 13.4

5. 22 18 +29.8
 29 32
 7 14

5 29 35
 17.15 W
 + 20.4

Z Pegasus 235521 est 13.4

7 11 23 53 +25.0
 29 38
 5 45 W

+26.8
 5.47 W
 5.41

R X Androm. 005840 est 13.4

7 15 0 53 +40.6
 5 42
 4 47 W

+42.2
 4.46 W
 5.45

X Cephei 210382 est 11.8

7 21 21 8 +82.5
 29 48
 8 110 W

+83.7
 5.51
 8.49 W

Y Cephei 003179 est 11.8

7 32 0 32 +79.4
 6 00
 5 28 W

5.31 W
 +81.2
 6.02

Feb. 24, 1908

7 37

Z Cephæi 021241 est 130

2 0 +81.2

$$\begin{array}{r} 6 \ 5 \\ 4 \ 5-w \end{array}$$

$$\begin{array}{r} 3:52w \\ +82.4 \end{array}$$

6.7

7 40

RR Cephæi 023040 est 13.2

2 28 +80.8

$$\begin{array}{r} 6 \ A \end{array}$$

3 40w

3:42w

+82.2

6.10

7 46

D Cassiop 011272 est 12.8

1 5 +71.0

$$\begin{array}{r} 6 \ 12 \\ 5 \ 7w \end{array}$$

5:7w

+73.4

6.16

8 00

U Anetis 030514 est 9.0

3 3 +14.7

$$\begin{array}{r} 6 \ 18 \end{array}$$

$$\begin{array}{r} 3 \ 15-w \end{array}$$

6.29

3:26w

+15.7

8 08

R Persei 032335 est 13.0

3 23 +34.0

$$\begin{array}{r} 6 \ 33 \end{array}$$

$$\begin{array}{r} 3 \ 10w \end{array}$$

3:15w

+36.0

6.38

7996 6

Feb 24/90

Nova Per #2. 03 2443 est w 2, 3w

$$\begin{array}{r} 22 \quad 3 \quad 18 \quad +43.9 \\ 6 \quad 44 \\ \hline 3 \quad 30 \end{array}$$

$$\begin{array}{r} 3 \quad 28 \quad W \\ +44 \\ \hline 6 \quad 52 \end{array}$$

S Aurigae 05 2034 est 10.5

$$\begin{array}{r} 2) \quad 5 \quad 16 \quad +38.0 \\ 6 \quad 53 \\ \hline 1 \quad 3.7 \quad W \end{array}$$

$$\begin{array}{r} +36.9 \\ 6 \quad 57 \\ \hline 1 \quad 38 \quad W \end{array}$$

W Aurigae 05 2036 est 11.0

$$\begin{array}{r} 30 \quad 5 \quad 15 \quad +37.2 \\ 6 \quad 59 \\ \hline 1 \quad 44 \quad W \end{array}$$

$$\begin{array}{r} +38.2 \\ 7 \quad 00 \\ \hline 1 \quad 41 \quad W \end{array}$$

U Aurigae 05 3531 est 12.4

$$\begin{array}{r} 34 \quad 5 \quad 31 \quad +31.8 \\ 7 \quad 03 \\ \hline 1 \quad 31 \quad W \end{array}$$

$$\begin{array}{r} +33.2 \\ 7 \quad 14 \\ \hline 1 \quad 31 \quad W \end{array}$$

— Aurigae 05 4231 est 12.2

$$\begin{array}{r} 38 \quad 5 \quad 40 \quad +31.5 \\ 7 \quad 06 \\ \hline 1 \quad 26 \quad W \end{array}$$

$$\begin{array}{r} +32.6 \\ 7 \quad 08 \\ \hline 1 \quad 26 \quad W \end{array}$$

7996 6

Feb. 24 1908

R R Tauri 053326 est 11.5

$$\begin{array}{r} \text{A 42} \\ 5 \ 31 + 21.5 \\ \hline 7 \ 10 \\ \hline 1 \ 39 \text{ W} \end{array}$$

+25.5

1.38W

7.12

054615 Z Tauri ~~053326~~ 11.2 est

<13.3

$$\begin{array}{r} \text{A 50} \\ 5 \ 42 + 14.2 \\ \hline 7 \ 14 \\ \hline 1 \ 32 \text{ W} \end{array}$$

+16.8

1.35W

7.20

X Aurigae 060450 est <13.3

$$\begin{array}{r} \text{A 57} \\ 6 \ 1 + 49.8 \\ \hline 7 \ 22 \\ \hline 1 \ 21 \text{ W} \end{array}$$

+55.8

1.21W

7.27

P Lyncis 063558 est <13.0

$$\begin{array}{r} 9.13 \\ 6 \ 34 + 54.3 \\ \hline 7 \ 29 \\ \hline 0 \ 53 \text{ W} \end{array}$$

+59.6

0.57W

9.33

R Gemini 070122a est 12.9

$$\begin{array}{r} 9 \ 12 \\ \text{A 6 57} + 22.9 \\ \hline 7 \ 35 \\ \hline 0 \ 38 \text{ W} \end{array}$$

+23.8

0.42W

7.42

7996 6

Feb 24 1908

U Gemin 074922 est 0000

$$\begin{array}{r}
 917 \quad 750 + 23.3 \\
 \quad 744 \\
 \hline
 \quad 06E \\
 \end{array}
 \quad
 \begin{array}{r}
 +23.3 \\
 0.5-E \\
 7:47
 \end{array}$$

Z Puppis 072820 est 105

$$\begin{array}{r}
 937 \quad 728 - 20.7 \\
 \quad 742 \\
 \hline
 \quad 020W \\
 \end{array}
 \quad
 \begin{array}{r}
 -19.6 \\
 0.40W \\
 8:17
 \end{array}$$

U Puppis 075612 est 132

$$\begin{array}{r}
 941 \quad 754 - 12.6 \\
 \quad 808 \\
 \hline
 \quad 014W \\
 \end{array}
 \quad
 \begin{array}{r}
 0.15W \\
 -11.4 \\
 8:11
 \end{array}$$

V Leonis 095621 est 13.4

$$\begin{array}{r}
 947 \quad 951 + 21.9 \\
 \quad 813 \\
 \hline
 \quad 138E \\
 \end{array}
 \quad
 \begin{array}{r}
 +22.8 \\
 1:38E \\
 8:17
 \end{array}$$

W Leonis 104814 est 13.2

$$\begin{array}{r}
 951 \quad 1044 + 14.5 \\
 \quad 818 \\
 \hline
 \quad 226E \\
 \end{array}
 \quad
 \begin{array}{r}
 2:27E \\
 +15.2 \\
 8:21
 \end{array}$$

7996 6

Feb. 24, 1908

St Leonis 110506 est 10.1

$$\begin{array}{r}
 9.55 - 11.1 + 6.0 \\
 8.22 \\
 \hline
 2.39 \text{ E}
 \end{array}$$

$$\begin{array}{r}
 2.41 \text{ E} \\
 + 7.2 \\
 \hline
 9.61
 \end{array}$$

R Comae 115919 est 13.0

$$\begin{array}{r}
 10.25 - 11.56 + 20.2 \\
 8.52 \\
 \hline
 3.44 \text{ E}
 \end{array}$$

$$\begin{array}{r}
 3.5 \text{ E} \\
 + 20.2 \\
 \hline
 23.7
 \end{array}$$

T Can Ven 122532 est 11.5

$$\begin{array}{r}
 10.29 - 12.24 + 32.2 \\
 8.56 \\
 \hline
 3.28 \text{ E}
 \end{array}$$

$$\begin{array}{r}
 + 33.2 \\
 3.26 \text{ E} \\
 \hline
 35.9
 \end{array}$$

R Coronae 154428

10 32

File est 6.2

$$\begin{array}{r}
 23 \\
 6
 \end{array}$$

$$\begin{array}{r}
 764 \\
 115
 \end{array}$$

L

Tues Mar. 3, 1902
 L. C. Ob. J. A. 80047

T Virginis 120905 est 13.2

12 25
 12 8 -5.2
11 25
 0 43 E

0.41 E
 -4.4
 11:20

R Cori 121815 est 10.4

3
 12 43
 12 12 -18.4
11 29
 0 43 E

0.38 E
 -17.4
 11:36

sky hazy here

γ Virginis 122803 est 11.4

4
 12 32
 12 26 -3.6
11 38
 0 48 E

0.42 E
 -2.8
 11:40

η Virginis 124606 est < 12.8

4
 12 35
 12 42 +6.0
11 46
 0 56 E

0.57 E
 +7.2
 11:48

R V Virginis 130212 est < 12.7

4
 12 29
 13 0 -12.4
11 50
 1 10 E

1.10 E
 -11.7
 11:52

Mar. 3, 1908

VVirginis 132202 est ~~off~~

$$\begin{array}{r}
 12 \ 32 \\
 13 \ 24 \ -2.4 \\
 \hline
 11 \ 54 \\
 1 \ 30 \ E
 \end{array}$$

$$\begin{array}{r}
 11:27 E \\
 -1.2 \\
 \hline
 11:35
 \end{array}$$

Z Bootis 140113 est

$$\begin{array}{r}
 14 \ 0 \ +14.4 \\
 11 \ 56 \\
 \hline
 2 \ 04 \ E
 \end{array}$$

8004.8

$$\begin{array}{r}
 13 \ 42 \\
 13 \ 57 \ +13.4 \\
 \hline
 12 \ 44 \\
 1 \ 13 \ E
 \end{array}$$

Older at 13:00
Abandoned.

RR Virginis 135908 est 132

$$\begin{array}{r}
 13 \ 46 \\
 13 \ 57 \ -8.5 \\
 \hline
 12 \ 47 \\
 1 \ 10 \ E
 \end{array}$$

$$\begin{array}{r}
 11:0 E \\
 -7.0 \\
 \hline
 12:49
 \end{array}$$

Z Virginis 140512 est 104

$$\begin{array}{r}
 13 \ 26 \\
 14 \ 2 \ -12.6 \\
 \hline
 12 \ 50 \\
 1 \ 12 \ E
 \end{array}$$

$$\begin{array}{r}
 11:13 E \\
 -11.2 \\
 \hline
 12:57
 \end{array}$$

RR Virg. 142205 Est 104

$$\begin{array}{r}
 13 \ 52 \\
 14 \ 23 \ +5.4 \\
 \hline
 12 \ 53 \\
 1 \ 30 \ E
 \end{array}$$

$$\begin{array}{r}
 12:57 \\
 1:28 E \\
 +6.3 \\
 \hline
 12:55
 \end{array}$$

Mar 3, 1908

80048
F. 8.

W Bootis 144912 Est 12.2

$$\begin{array}{r}
 14 \ 0 \\
 14 \ 49 + 18.3 \\
 \underline{12 \ 56} \\
 1 \ 53 \ E \\
 \end{array}
 \qquad
 \begin{array}{r}
 1448 \\
 + 9.2 \\
 \hline
 13.03
 \end{array}$$

M Corone 157731 est 2.7

$$\begin{array}{r}
 14 \ 6 \\
 15 \ 16 + 33.4 \\
 \underline{13 \ 06} \\
 2 \ 10 \ E \\
 \end{array}
 \qquad
 \begin{array}{r}
 2.9 \ E \\
 + 32.7 \\
 \hline
 13.09
 \end{array}$$

V Corone 154539 est 2.3

$$\begin{array}{r}
 14 \ 8 \\
 15 \ 44 + 40.0 \\
 \underline{13 \ 10} \\
 2 \ 34 \ E \\
 \end{array}
 \qquad
 \begin{array}{r}
 2.3 \ E \\
 + 40.6 \\
 \hline
 13.11
 \end{array}$$

X Corone 154536 est CH 2.2

$$\begin{array}{r}
 14 \ 14 \\
 15 \ 42 + 36.6 \\
 \underline{13 \ 12} \\
 2 \ 30 \ E \\
 \end{array}
 \qquad
 \begin{array}{r}
 4.3 \ E \\
 2.26 \ E \\
 \hline
 13.17
 \end{array}$$

— Corone 155229 est 11.7

$$\begin{array}{r}
 14 \ 18 \\
 15 \ 50 + 29.9 \\
 \underline{13 \ 20} \\
 2 \ 30 \ E \\
 \end{array}
 \qquad
 \begin{array}{r}
 11.7 \\
 + 30.3 \\
 \hline
 2.30 \ E \\
 13.21
 \end{array}$$

Mar. 3, 1908

004 8

W Herc. 16 31 37 est 12.1

14 21

$$\begin{array}{r}
 16 \ 30 + 37.4 \\
 13 \ 22 \\
 \hline
 3 \ 8 \ 2
 \end{array}$$

$$\begin{array}{r}
 + 38.6 \\
 13.24 \\
 3:7 \ 2
 \end{array}$$

RV Herc. 16 56 31 est 12.8

14 24

$$\begin{array}{r}
 16 \ 55 + 31.1 \\
 13 \ 25 \\
 \hline
 3 \ 30 \ 2
 \end{array}$$

$$\begin{array}{r}
 3:29 \ 2 \\
 + 32.3 \\
 13:27
 \end{array}$$

S' Scorp. 15 77 14 Est 12.9

14 28

$$\begin{array}{r}
 15 \ 14 + 15.2 \\
 13 \ 28 \\
 \hline
 1.46 \ 2
 \end{array}$$

$$\begin{array}{r}
 1.47 \ 2 \\
 + 15.6 \\
 13:31
 \end{array}$$

R Scorp. 15 46 15 Est < 13.0

14 31

$$\begin{array}{r}
 15 \ 46 + 15.2 \\
 13 \ 32 \\
 \hline
 2 \ 14 \ 2
 \end{array}$$

$$\begin{array}{r}
 2:13 \ 2 \\
 + 16.4 \\
 13:34
 \end{array}$$

RU Herc 16 06 24 Est 12.5

14 35

$$\begin{array}{r}
 16 \ 11 + 26.0 \\
 13 \ 35 \\
 \hline
 2:29 \ 2
 \end{array}$$

$$\begin{array}{r}
 2:29 \ 2 \\
 + 26.0 \\
 13:38
 \end{array}$$

Mar 3, 1908

R Here 16 011A Ent 10.7

16 R + 17.1

13 40

2 22 E

+ 17.7

13.41

2.21 E

14 38

R Here 16 0210 Ent 13.0

16 0 + 10.2

13 42

2 18 E

+ 11.3

2.18 E

13.43

14 42

R Here 16 2119 Ent 13.0

16 16 + 19.5

13 46

2 30 E

16 16

14 33

1 43 E

+ 20.3

14.35

1.43 E

F004.0

15 31

St Here 16 2407 Ent 9.5

16 26 + 7.0

14 36

1 50 E

+ 7.2

14.38

1.50 E

15 34

St Here 16 4715 Ent 9.2

16 46 + 15.2

14 40

2 6 E

2.7 E

+ 16.2

14.42

15 38

Mar. 3, 1909

V Librae 143417 Est 10.2

15-49

$$\begin{array}{r} 14\ 32 - 17.0 \\ 14\ 44 \\ \hline 0\ 12\ w \end{array}$$

$$\begin{array}{r} -16.4 \\ 0.1\ w \\ \hline 14.52 \end{array}$$
RT Librae 150016 est < 12.9

15-54

$$\begin{array}{r} 14.58 - 18.6 \\ 14\ 53 \\ \hline 0\ 52 \end{array}$$

$$\begin{array}{r} 0.32 \\ -17.4 \\ \hline 14.57 \end{array}$$

T Librae 150579 Est 12.5

15-57

$$\begin{array}{r} 15.4 - 19.2 \\ 14\ 58 \\ \hline 0\ 6\ E \end{array}$$

$$\begin{array}{r} -18.4 \\ 0.5\ E \\ \hline 15.00 \end{array}$$

Y Librae 150605 est 11.1

16-00

$$\begin{array}{r} 15.4 - 5.0 \\ 15\ 1 \\ \hline 0\ 32 \end{array}$$

$$\begin{array}{r} 0.2\ E \\ -4.5 \\ \hline 15.03 \end{array}$$
J Librae 151520 est 9.0

16-02

$$\begin{array}{r} 15.13 - 19.9 \\ 15\ 4 \\ \hline 0\ 9\ E \end{array}$$

$$\begin{array}{r} 0.10\ E \\ -19.2 \\ \hline 15.00 \end{array}$$

Mar. 3, 1908

8004

R^h Librae 15 18 22 ~~ent~~ 9.70.18 E
-21.4
15.09

$$\begin{array}{r}
 15 \quad 14 \quad -22.4 \\
 15 \quad 07 \\
 \hline
 0 \quad 7 \quad 2
 \end{array}$$

R^u Librae ~~15 20 14.4~~ ~~ent~~ 13.015 20 140.17 E
-10.2
15.12

$$\begin{array}{r}
 15 \quad 20 \quad -14.4 \\
 15 \quad 10 \\
 \hline
 0 \quad 10 \quad 2
 \end{array}$$

X Librae 15 30 20 ~~ent~~ ~~ent~~ 11.8-19.4
0.11 E
15.19

$$\begin{array}{r}
 15 \quad 27 \quad -20.7 \\
 15 \quad 13 \\
 \hline
 0 \quad 14 \quad 2
 \end{array}$$

U Librae 15 36 20 ~~ent~~ 11.20.13 E
-19.4
15.22

$$\begin{array}{r}
 15 \quad 35 \quad -20.6 \\
 15 \quad 20 \\
 \hline
 0 \quad 15 \quad 2
 \end{array}$$

~~R~~ Z Librae 15 40 20 ~~ent~~ 11.20.14 E
-19.4
15.25

$$\begin{array}{r}
 15 \quad 39 \quad -21.0 \\
 15 \quad 23 \\
 \hline
 0 \quad 16 \quad 2
 \end{array}$$

Mar 3, 1908

R Librae 154715 est $\angle 12.8$

$$\begin{array}{r}
 15 \ 46 \ -16.4 \\
 15 \ 26 \\
 \hline
 0 \ 20 \ 2
 \end{array}
 \qquad
 \begin{array}{r}
 5:20 \ 2 \\
 -14.4 \\
 \hline
 15:28
 \end{array}$$

RR Librae 155018 Est 9.2

$$\begin{array}{r}
 15 \ 48 \ -17.9 \\
 15 \ 28 \\
 \hline
 0 \ 20 \ 2
 \end{array}
 \qquad
 \begin{array}{r}
 0:19 \ 2 \\
 -17.2 \\
 \hline
 15:30
 \end{array}$$

RZ Scorpini 155823 est 9.6

$$\begin{array}{r}
 15 \ 58 \ -23.2 \\
 15 \ 32 \\
 \hline
 0 \ 20 \ 2
 \end{array}
 \qquad
 \begin{array}{r}
 -22.4 \\
 0:19 \ 2 \\
 \hline
 15:39
 \end{array}$$

Z Scorpini 160021 est 10.5

$$\begin{array}{r}
 15 \ 57 \ -21.5 \\
 15 \ 40 \\
 \hline
 0 \ 17 \ 2
 \end{array}
 \qquad
 \begin{array}{r}
 -20.4 \\
 0:14 \ 2 \\
 \hline
 15:44
 \end{array}$$

X Scorpini 160221 est $\angle 13.0$

$$\begin{array}{r}
 15 \ 59 \ -21.0 \\
 15 \ 46 \\
 \hline
 0 \ 13 \ 2
 \end{array}
 \qquad
 \begin{array}{r}
 -20.6 \\
 0:13 \ 2 \\
 \hline
 15:47
 \end{array}$$

Mar. 3, 1908

8004

W Scorpi 160579 est < 130

$$\begin{array}{r}
 16 \ 48 \\
 16 \ 2 \ -19.6 \\
 \underline{15 \ 48} \\
 0 \ 14 \ E
 \end{array}$$

$$\begin{array}{r}
 -188 \\
 0.13 E \\
 15.51
 \end{array}$$

R X Scorpi 160524 est 11.4

$$\begin{array}{r}
 16 \ 52 \\
 16 \ 6 \ -24.1 \\
 \underline{15 \ 53} \\
 0 \ 13 \ E
 \end{array}$$

$$\begin{array}{r}
 -23.4 \\
 0.10 E \\
 15.55
 \end{array}$$

R Scorpi 161122a est < 130

$$\begin{array}{r}
 16 \ 54 \\
 16 \ 8 \ -22.7 \\
 \underline{15 \ 55} \\
 0 \ 13 \ E
 \end{array}$$

$$\begin{array}{r}
 -21.7 \\
 0.13 E \\
 15.57
 \end{array}$$

R Scorpi 161122b est 11.5

16 55

$$\begin{array}{r}
 -21.8 \\
 0.14 E \\
 15.58
 \end{array}$$

V Ophiuchi 162112 est 8.4

$$\begin{array}{r}
 16 \ 58 \\
 16 \ 19 \ -11.9 \\
 \underline{16 \ 50} \\
 0 \ 9 \ E
 \end{array}$$

$$\begin{array}{r}
 -11.4 \\
 0.19 E \\
 16.01
 \end{array}$$

8004 1

Mar. 3, 1904

Y Scorpii 162319 est $\angle 12.8$

$$\begin{array}{rcl}
 16 & 18 & -18.1 \\
 16 & 02 & \\
 \hline
 0 & 16 & \varepsilon
 \end{array}
 \quad
 \begin{array}{r}
 0.17\varepsilon \\
 -18.1 \\
 -18.0 \\
 16.05
 \end{array}$$

T Ophiuchi 162415 est 9.8

$$\begin{array}{rcl}
 16 & 24 & -16.0 \\
 16 & 06 & \\
 \hline
 0 & 18 & \varepsilon
 \end{array}
 \quad
 \begin{array}{r}
 -15.2 \\
 0.18\varepsilon \\
 16.09
 \end{array}$$

S Oph. 162416 est 11.0

$$\begin{array}{r}
 -16.2 \\
 0.18\varepsilon \\
 16.11
 \end{array}$$

RR Ophiuchi 164319 est 9.6

$$\begin{array}{rcl}
 16 & 40 & -19.0 \\
 16 & 13 & \\
 \hline
 0 & 27 & \varepsilon
 \end{array}
 \quad
 \begin{array}{r}
 -18.3 \\
 0.28\varepsilon \\
 16.14
 \end{array}$$

R Oph. 170215 est 10.1

$$\begin{array}{rcl}
 17 & 2 & -15.5 \\
 16 & 15 & \\
 \hline
 0 & 47 & \varepsilon
 \end{array}
 \quad
 \begin{array}{r}
 -15.3 \\
 0.42\varepsilon \\
 16.19
 \end{array}$$

Mar 3, 1908

8004

1725 N. 5th Cygn 213443 5" est < 1040
39
10803⁴
12⁵

L.P.D.

Thurs. Mar. 5, 1908

RX Androm 005840 est 11.1
L.V. 12.8

7 : 18

$$\begin{array}{r} 0 \ 55 \quad +40.6 \\ 6 \ 25 \\ \hline 5 \ 30 \ W \end{array}$$

$$\begin{array}{r} +42.2 \\ 6 \ 28 \\ \hline 5 \ 30 \ W \end{array}$$

X Androm 001046 est

$$\begin{array}{r} 0 \ 7 \quad +46.0 \\ 6 \ 37 \\ \hline 6 \ 30 \ W \end{array}$$

$$\begin{array}{r} 0 \ 7 \quad +46.0 \\ 6 \ 44 \\ \hline 6 \ 37 \ W \end{array}$$

Abandoned

2 Tami

$$\begin{array}{r} 04 \ 30 \quad +16.3 \\ 6 \ 50 \\ \hline 2 \ 20 \ W \end{array}$$

7 30

7:00 - ST

2:31 - H.A.W

+17.4 = Dec

Obs. RA = -4:29

Corr in RA = -2^m in Dec = ~~-1.2~~ +1.2

X And. 001046 est <12.8

7 58

$$\begin{array}{r} 0 \ 07 \quad +46.0 \\ 7 \ 04 \\ \hline 6 \ 57 \ W \end{array}$$

$$\begin{array}{r} 7 \ 08 \\ +47.6 \\ \hline 6 \ 57 \ W \end{array}$$
RW And. 004132 est 11.8
L.V. 12.2

8 06

$$\begin{array}{r} 0 \ 41 \quad +32.2 \\ 7 \ 09 \\ \hline 6 \ 28 \ W \end{array}$$

$$\begin{array}{r} 7 \ 16 \\ 6 \ 35 \ W \\ +32.2 \end{array}$$

Mar. 5, 1908

8006

✓ Androm 004435 est 92
 L.V. 12.4
 6:34 W
 +36.2
 7:19

8 9 0 42 +34.6
 7 17
 6 35 W

RR And 004533 est < 12.2
 6:35 W
 +34.8
 7:20

8 10 0 43 +33.5
 7 20
 6 37 W

RV Cassio. 004746 est < 12.3
 6:39 W
 +48.2
 7:25

8 15 0 44 +48.0
 7 22
 6 38 W

U And 010940 est if seen = 12.1
 6:21 W
 +41.2
 7:30

8 20 0 1 8 +40.2
 7 26
 6 18 W

W Androm 021143 est < 12.8
 +45.2
 5:27 W
 6:36

8 28 2 4 +43.6
 7 32
 5 28 W

Mer. 57208

Nov. Rev X 2

032443 est

+4.30w

$\Delta V = w_3 RV$

3 20 +44.0

+44.2

7 39

4.18w

4 19w

7.10

RX Tauri

043208 est

9.1 N.S.

New Var N.S.

4 31 +7.6

3.14w

7 43

+9.2

3 12w

7.47

8 46

Orionis

052408

est 12.4

RV 13.0

5 21 -4.2

2.23w

7 49

-3.6

2 28w - Orionis est 9.9

9.56

V Can Min. 070109

est < 13.0

07

1.1w

6 59 +8.8

+10.1

7 59

8.02

1 0w

RR Monoc 071201

est

< 13.1

7 11 +13 +1.5

0.55w

0 0x

+2.5

0 53 w

8.07

Mar. 5, 1908

Vesta

x 4 Vesta
Vesta 5 y~~est 130~~

$$\begin{array}{r}
 6 \ 17 \\
 8 \ 33 \\
 \hline
 2 \ 16 \text{ W}
 \end{array}$$

+25.6

$$\begin{array}{l}
 x = 6 \ 16 + 25.1 \ (1833) \\
 y = 6 \ 24 + 25.9 \ (1855)
 \end{array}$$

p. 40

+27.2

2.16 W

St Gemini

073723

~~est 130~~

$$\begin{array}{r}
 7 \ 34 + 23.8 \\
 8 \ 44 \\
 \hline
 1 \ 10 \text{ W}
 \end{array}$$

1.8 W

+24.8

p. 45

U Gemini

074922

~~est 130~~

$$\begin{array}{r}
 7 \ 48 + 22.2 \\
 8 \ 48 \\
 \hline
 1 \ 0 \text{ W}
 \end{array}$$

0.59 W

+23.3

p. 49

U Cancer

083019

~~est 130~~

$$\begin{array}{r}
 8 \ 30 + 19.8 \\
 8 \ 50 \\
 \hline
 0 \ 20 \text{ W}
 \end{array}$$

0.22 W

+20.0

p. 53

U Cancer

090425

~~est 122~~

$$\begin{array}{r}
 9 \ 3 + 26.8 \\
 8 \ 54 \\
 \hline
 0 \ 0.9 \text{ E}
 \end{array}$$

0.6 E

+26.8

p. 58

Mar. 5, 1908

Pallas $11^h 18.6 - 1^m 7^s$ (1855) $\alpha_3, 5 - b$

10 9 $\begin{array}{r} 11\ 18 \\ 9\ 12 \\ \hline 2\ 6\ E \end{array}$ $a = 11\ 21 - 0.9^s$ (1855) -0.4
 $b = 11\ 18 - 0.3$ 9.19

X Camelopard 043274 est 11.8

10 16 $\begin{array}{r} 4\ 32 + 75.6 \\ 9\ 22 \\ \hline 4\ 50\ W \end{array}$ $+76.3$
 $4.52\ W$
 9.26

V Camelopard 05497X est 13.0

10 21 $\begin{array}{r} 5\ 45 + 73.9 \\ 9\ 28 \\ \hline 3\ 43\ W \end{array}$ 9.31
 $+74.8$
 $3.39\ W$

Y Draco 093178 est 13.0

10 30 $\begin{array}{r} 9\ 29 + 78.7 \\ 9\ 32 \\ \hline 0\ 3\ W \end{array}$ $+79.8$
 $0.9\ W$
 9.40

Run May 103769 est 12.8
RV. 13.2

10 38 $\begin{array}{r} 10\ 32 + 69.3 \\ 9\ 42 \\ \hline 0\ 50\ E \end{array}$ $+70.2$
 $0.49\ E$
 9.48

Mar, 5, 1908

8006

T Urs Min 133273 Est 120

LV. 130

13 36 +75.0

3.37 E

10 46

9 50

+74.8

3 46 E

9.56

U Urs Min 141567 est 11.2

14 16 +67.4

+68.2

10 50

9 56

4.16 E

4 20 E

10.00

14 819 L.P.P.
11 136

8010

Mar 9, 1908 (Monday)

L.C. Obs. J.D. 8010

- Aurigae 060547 31.1907

Venus 5th m 2.5n

7 55- 6 2 +47.5 0.14W
 6 2 ~~47.5~~
 1 0 W - h 3 k 4 5 m 6 3 n
 a 6 c 3 b 5 d 5 g 4 e 2 f 6 h +48.8
 7.19
 24 p 3 q 5 r 4 s t u not seen

RX Androm 005840 est 13.7

8 20 0 55 +40.6 6.16W
 7 30 +42.2
 6 35 W 7.14E

8:30 No hoies till later on

d'Krigins 132706 est 9.7

12 58 13 24 - 5.5 12.23
 12 12 - 5.7
 1 6 E 1.4E

R Hydrae 132422 est 9.8

13 0 13 22 - 22.5 13 14 0.52E
 12 25 - 22.0
 0 57 E 12.32
 0 46E

Mar. 9, 1908

8010

Z Bootis 140113 Est 12.0

$$\begin{array}{r}
 (3 \ 12) \quad 13 \ 57 \quad +13.5 \\
 \underline{12 \ 34} \\
 1 \ 23 \text{ E}
 \end{array}
 \quad
 \begin{array}{r}
 1125 \text{ E} \\
 +15.0 \\
 12:30
 \end{array}$$

$$\begin{array}{r}
 X \text{ Corone } 154536 \text{ est } 22.49 \\
 15 \ 46 \quad +36.1 \\
 \underline{12 \ 46} \\
 3 \ 0 \text{ E}
 \end{array}
 \quad
 \begin{array}{r}
 2154 \text{ E} \quad +42.4 \\
 12:52 \text{ E.T.}
 \end{array}$$

at 5h 56m 42s 6d 4e 6g 4f 6h 5k
fainter * 2 not seen

T Draco 175458 est 10.3 = T

$$\begin{array}{r}
 17 \ 51 \quad +57.0 \\
 \underline{13 \ 07} \\
 4 \ 44 \text{ E}
 \end{array}
 \quad
 \begin{array}{r}
 \text{Var. sf. est } 12.0 \\
 +59.2 \\
 13:18
 \end{array}$$

Diff to separate the Var.

V Draco 175654 est 9.8

$$\begin{array}{r}
 17 \ 56 \quad +55.0 \\
 \underline{13 \ 20} \\
 4 \ 36 \text{ E}
 \end{array}
 \quad
 \begin{array}{r}
 4:30 \text{ E} \\
 +55.8 \\
 13:25
 \end{array}$$

14 03 X Draco 180666 est 10.8

$$\begin{array}{r}
 18 \ 06 \quad +65.8 \\
 \underline{13 \ 27} \\
 4 \ 39 \text{ E}
 \end{array}
 \quad
 \begin{array}{r}
 13:30 \\
 4:38 \text{ E} \\
 +57.3
 \end{array}$$

settling on X

14 05 W Draco 180564 - est 10.5

Mar. 9, 1908

T Hercules 180531 est 12.2

14 14

$$\begin{array}{r} 18.02 + 30.6 \\ 13.32 \\ \hline 4.30 \end{array}$$

+32.0

13.39

4.25 E

U Draco 190967 est 11.7

14 21

$$\begin{array}{r} 19.12 + 67.4 \\ 13.42 \\ \hline 5.30 E \end{array}$$

+68.2

5.23 E

13.46

(R T Herc 17062) est 11.0

14 35

$$\begin{array}{r} 17.2 + 27.4 \\ 13.55 \\ \hline 3.07 E \end{array}$$

+28.2

3.09 E

13.09

R S Herc 171723 est 9.8

14 38

$$\begin{array}{r} 17.18 + 23.1 \\ 14.00 \\ \hline 3.18 E \end{array}$$

+23.1

3.15 E

14.02

W Lyrae 181136 est 9.5

14 44

$$\begin{array}{r} 18.9 + 36.6 \\ 14.5 \\ \hline 4.4 E \end{array}$$

+37.5

4.4 E

14.02

Mar. 9, 1908

8010

Rf Lyrae 184134 est $\angle 122$

$$\begin{array}{r}
 144 \left. \begin{array}{l} 1840 + 344 \\ 1410 \\ \hline 4302 \end{array} \right\} \begin{array}{l} 356 \\ 41302 \\ 1411 \end{array}
 \end{array}$$

RW Lyrae 184243 est $\angle 123$

$$\begin{array}{r}
 1453 \left. \begin{array}{l} 1840 + 43.4 \\ 1413 \\ \hline 427 \end{array} \right\} \begin{array}{l} +44.4 \\ 41242 \\ 1417 \end{array}
 \end{array}$$

Rx Lyrae 185032 est $\angle 122$

$$\begin{array}{r}
 15-2 \left. \begin{array}{l} 1848 + 32.8 \\ 1418 \\ \hline 430 \end{array} \right\} \begin{array}{l} +33.8 \\ 41242 \\ 14126 \end{array}
 \end{array}$$

Z Lyrae 185634 est $\angle 123$

$$\begin{array}{r}
 15-4 \left. \begin{array}{l} 1852 + 34.8 \\ 1427 \\ \hline 4252 \end{array} \right\} \begin{array}{l} +36.2 \\ 41272 \\ 14128 \end{array}
 \end{array}$$

RT Lyrae 185737 est $\text{misp.} = 12.3$

$$\begin{array}{r}
 15-10 \left. \begin{array}{l} 1857 + 32.6 \\ 1429 \\ \hline 4282 \end{array} \right\} \begin{array}{l} +38.2 \\ 41242 \\ 14134 \end{array}
 \end{array}$$

8010

Mar. 9. 1908

R U Lyrae 190941 est 11.5

$$\begin{array}{r}
 15 \quad 15 \\
 \begin{array}{r}
 19 \quad 10 \\
 14 \quad 37 \\
 \hline
 4 \quad 30 \text{ E}
 \end{array}
 \end{array}
 \quad +41.0$$

$$\begin{array}{r}
 +42.1 \\
 4.302 \\
 14.39
 \end{array}$$

+ Z Cygni 191350 est 100

$$\begin{array}{r}
 15 \quad 19 \\
 \begin{array}{r}
 19 \quad 12 \\
 14 \quad 42 \\
 \hline
 4 \quad 30 \text{ E}
 \end{array}
 \end{array}
 \quad +49.8$$

$$\begin{array}{r}
 +50.9 \\
 4.392 \\
 14.43
 \end{array}$$

190933 R A Lyrae 19 7 +33.0 est 10.9

$$\begin{array}{r}
 14 \quad 45 \\
 \hline
 4 \quad 22 \text{ E}
 \end{array}$$

$$\begin{array}{r}
 +34.2 \\
 4.222 \\
 14.48
 \end{array}$$

15 24

U Lyrae 191637 est 10.8

$$\begin{array}{r}
 15 \quad 29 \\
 \begin{array}{r}
 19 \quad 14 \\
 14 \quad 49 \\
 \hline
 4 \quad 25 \text{ E}
 \end{array}
 \end{array}
 \quad +37.2$$

$$\begin{array}{r}
 +38.4 \\
 4.248 \\
 14.52
 \end{array}$$

V Lyrae 190529 est 11.7

$$\begin{array}{r}
 15 \quad 33 \\
 \begin{array}{r}
 19 \quad 3 \\
 14 \quad 53 \\
 \hline
 4 \quad 10 \text{ E}
 \end{array}
 \end{array}
 \quad +29.7$$

$$\begin{array}{r}
 +30.4 \\
 4.098 \\
 14.56
 \end{array}$$

Mar. 9, 1908

S Lyrae 1909 25 est < 12.3

$$\begin{array}{r}
 15 \ 39 \quad 19 \ 6 \quad +26.1 \\
 \underline{14 \ 58} \\
 4 \ 8 \ E
 \end{array}$$

$$\begin{array}{r}
 +27.2 \\
 4:14 \ E \\
 \underline{15 \ 10.3}
 \end{array}$$

T Cygni 19 29 28 est 12.3

$$\begin{array}{r}
 15 \ 43 \quad 19 \ 28 \quad +28.2 \\
 \underline{15 \ 05} \\
 4 \ 23 \ E
 \end{array}$$

$$\begin{array}{r}
 +29.2 \\
 4:24 \ E \\
 \underline{15 \ 07}
 \end{array}$$

X Cygni 19 46 3 2 est 7.0

$$\begin{array}{r}
 15 \ 47 \quad 19 \ 41 \quad +33.4 \\
 \underline{15 \ 08} \\
 4 \ 33 \ E
 \end{array}$$

$$\begin{array}{r}
 +33.7 \\
 4:34 \ E \\
 \underline{15 \ 11}
 \end{array}$$

R Cygni 19 36 09 est < 12.5

$$\begin{array}{r}
 15 \ 57 \quad 19 \ 33 \quad +49.9 \\
 \underline{15 \ 13} \\
 4 \ 20 \ E
 \end{array}$$

$$\begin{array}{r}
 +51.1 \\
 4:19 \ E \\
 \underline{15 \ 15}
 \end{array}$$

RT Cygni 19 40 48 est 11.8

15 58

$$4:19 \ E$$

$$+49.6$$

TU Cygni 19 43 48 est

16 01 est 63.43

$$+500 \cdot 4:19 \ E$$

$$15 \ 22$$

$$15 \ 25$$

8010

Mar 9, 1900

Z Cygni 195749 est 25.02

16	03	$\begin{array}{r} 19\ 57 \\ \hline 15\ 27 \\ \hline 4\ 30 \end{array}$	+49.6	$\begin{array}{r} +50.7 \\ 10\ 28 \\ \hline 4\ 30\text{E} \end{array}$
----	----	--	-------	--

RU Ophiuchi 172009 est 10.5

16	9	$\begin{array}{r} 17\ 20 \\ \hline 15\ 30 \\ \hline 1\ 50\text{E} \end{array}$	+9.6	$\begin{array}{r} +10.6 \\ 15\ 34 \\ \hline 1\ 54\text{E} \end{array}$
----	---	--	------	--

Z Ophiuchi 171401 est 12.0

16	14	$\begin{array}{r} 17\ 14 \\ \hline 15\ 36 \\ \hline 1\ 38\text{E} \end{array}$	+1.5	$\begin{array}{r} +2.8 \\ 15\ 39 \\ \hline 1\ 35\text{E} \end{array}$
----	----	--	------	---

R, S Ophiuchi 174406 est 11.2

16	19	$\begin{array}{r} 17\ 43 \\ \hline 15\ 40 \\ \hline 2\ 3\text{E} \end{array}$	-6.2	$\begin{array}{r} -6.1 \\ 15\ 44 \\ \hline 2\ 0\text{E} \end{array}$
----	----	---	------	--

RT Ophi 175111 est 12.5

16	23	$\begin{array}{r} 17\ 51 \\ \hline 15\ 46 \\ \hline 2\ 05\text{E} \end{array}$	+11.0	$\begin{array}{r} 2\ 5\text{E} \\ +12.2 \\ \hline 15\ 48 \end{array}$
----	----	--	-------	---

Mar 9, 1968

8010

Rly Herc 175319 est var 3 a

16 27

$$\begin{array}{r} 1754 + 19.6 \\ 1550 \\ \hline 242 \end{array}$$

$$\begin{array}{r} 213 \text{ E} \\ + 20.3 \\ \hline 1513.2 \end{array}$$

RW Herc 180122 est 12.3

16 32

$$\begin{array}{r} 180 + 22.2 \\ 1533 \\ \hline 27 \text{ E} \end{array}$$

$$\begin{array}{r} + 23.3 \\ 214 \text{ E} \\ \hline 1515.7 \end{array}$$

Ry Cep 181103 est 12.5

16 36

$$\begin{array}{r} 187 + 3.6 \text{ star } \circ? \\ 1058 \\ \hline 29 \text{ E} \end{array}$$

$$\begin{array}{r} 211 \text{ E} \\ + 4.6 \\ \hline 16:01 \end{array}$$

T Scapentis 182306 est 12.3

16 42

$$\begin{array}{r} 1821 + 6.1 \\ 1603 \\ \hline 218 \text{ E} \end{array}$$

$$\begin{array}{r} 2117 \text{ E} \\ + 7.3 \\ \hline 16:06 \end{array}$$

R Aquilae 190108 est 10.2

16 46

$$\begin{array}{r} 190 + 8.0 \\ 168 \\ \hline 202 \text{ E} \end{array}$$

$$\begin{array}{r} + 9.2 \\ 2:51 \text{ E} \\ \hline 16:10 \end{array}$$

8010

Mar 9, 1908

N N Cygnus 213443 est 10.2

16 51 21 37 +436

X

16 12

5 20 E

5 23 E

16 15

+436

X Ophiuchus 183308 est P.O.

18 33 +8.7

16 19

2 14 E

16 22

2 10 E

+9.7

16 58

17 05 Twilight coming. Dist.

35 854

9 145

25

L.M.P.

Mar. 19, 1908 (Thurs.)

LC Abz.

- Aurigae 060547

JD. 8020

est < 12.6

* 8 44

8:49

2:40 W

+47.2

U Geminorum est

9 05 $\begin{array}{r} 7\ 49 + 23.3 \\ 8\ 52 \\ \hline 1\ 3\ W \end{array}$

Can't find region

9 11 $\begin{array}{r} 7\ 48 + 23.3 \\ 9\ 09 \\ \hline 1\ 21\ W \end{array}$ est < l.
 est comp^d = a 3 b 5 f 3 d
 f 6 g 4 h 4 h' 5 k 2 l
 fainter stars not seen
 1:26 W + 22.8
 9:15

- 854
 2 147 L.M.

Stat. Mar 21, 1908

LC Obs. Rec. JD. 8022

— Aurigae 060547 est $< 12^{\circ}$

7 17

6 2 +47.4
 $\frac{7}{1}$ 22
 20 W

Dec = +47.4
 HA = 1:24 W
 S.T. = 7:29

004132 R V Androm est 10.5

7 24

0 41 +32.2
 $\frac{7}{6}$ 31
 50 W

+33.3
 6:56 W
 7:36

V Androm 004435 est 9.5

7 26

0 42 +34.5
 $\frac{7}{6}$ 38
 56 W

+35.5
 6:56 W
 7:38

R V Cassio 004746 est < 12.5

7 32

0 44 +47.0
 $\frac{7}{6}$ 40
 56 W

+47.4
 6:58 W
 7:44

R X And. 005840 est < 11.4

7 36

0 55 +40.6
 $\frac{7}{6}$ 45
 50 W

+41.3
 6:51
 7:48

Mar. 21, 1908

8022

Y Androm 01333P est ~~12.5 at 14~~

7.5V

+39.3

6.22

$$\begin{array}{r}
 742 \\
 \underline{76} \quad 49 \\
 17 \text{ w}
 \end{array}$$

RM Androm 01323P est < 12.3

7.56

+38.6

6.25

> 44

R Persei ~~032335~~ est 10.7

3 23 +35.2

4.40 w

+35.8

8.02

> 51

$$\begin{array}{r}
 7 \text{ 58} \\
 \underline{4} \quad 35 \text{ w}
 \end{array}$$

T Tauri 041619 est 11.8

4 16 +19.3

8.07 w

+19.8

3.52 w

> 55

$$\begin{array}{r}
 8 \quad 04 \\
 \underline{3} \quad 48 \text{ w}
 \end{array}$$

ST Tauri 04230.9 est 10.3

4 20 +9.7

3.49

+10.2

8.11

8 00

$$\begin{array}{r}
 8 \quad 08 \\
 \underline{3} \quad 48
 \end{array}$$

R Tauri < 12.4

8022

Mar. 21, 1908.

045307 R Orionis est 10.6

$$\begin{array}{r}
 8 \quad 31 \\
 4 \quad 47 \quad + 47.5 \\
 8 \quad 39 \\
 \hline
 3 \quad 52 \text{ w}
 \end{array}$$

$$\begin{array}{r}
 3.49 \text{ w} \\
 + 0.2 \\
 8.143
 \end{array}$$

V Orionis 050003 est 12.5

$$\begin{array}{r}
 8 \quad 41 \\
 4 \quad 58 \quad + 3.6 \\
 8 \quad 44 \\
 \hline
 3 \quad 46 \text{ w}
 \end{array}$$

Z.V. 12.6

$$\begin{array}{r}
 3.53 \text{ w} \\
 + 4.3 \\
 8.53
 \end{array}$$

V Tauri 044617 est 10.5

$$\begin{array}{r}
 8 \quad 46 \\
 4 \quad 42 \quad + 17.2 \\
 8 \quad 54 \\
 \hline
 4 \quad 11 \text{ w}
 \end{array}$$

$$\begin{array}{r}
 + 17.2 \\
 4.12 \text{ w} \\
 8.57
 \end{array}$$

Z Tauri 054615 est < 12.6

$$\begin{array}{r}
 8 \quad 53 \\
 5 \quad 42 \quad + 14.2 \\
 8 \quad 59 \\
 \hline
 3 \quad 17 \text{ w}
 \end{array}$$

$$\begin{array}{r}
 9.05 \\
 + 16.2 \\
 3.19 \text{ w}
 \end{array}$$

N Aurigae 052035 est 9.3

$$\begin{array}{r}
 9 \quad 00 \\
 5 \quad 16 \quad + 34.0 \\
 9 \quad 06 \\
 \hline
 3 \quad 50 \text{ w}
 \end{array}$$

$$\begin{array}{r}
 + 34.0 \\
 3.51 \text{ w} \\
 9.12
 \end{array}$$

Mar. 21, 1908

05 3326 RR Tauri est 10.7

9 28

$$\begin{array}{r} 5 \ 31 \\ 9 \ 14 \\ \hline 4 \ 43 \text{ w} \end{array}$$

4.7 w
 + 26.6
 9.40

W Aurigae 05 3036 est 11.6

9 32

$$\begin{array}{r} 5 \ 15 \\ 9 \ 42 \\ \hline 4 \ 27 \text{ w} \end{array}$$

4.26 w
 + 37.3
 9.44

U Aurigae 05 3531 est 12.0

9 44

$$\begin{array}{r} 5 \ 31 \\ 9 \ 46 \\ \hline 4 \ 15 \text{ w} \end{array}$$

+ 32.2
 4.23 w
 9.56

- Aurigae 05 4231 29.1907 est 14.29

9 49

$$\begin{array}{r} 5 \ 40 \\ 9 \ 52 \\ \hline 4 \ 18 \text{ w} \end{array}$$

+ 32.1
 4.19 w
 16.01

R Monoc 06 3300 est 11.0

10 00

$$\begin{array}{r} 6 \ 33 \\ 10 \ 03 \\ \hline 3 \ 30 \text{ w} \end{array}$$

3.39 w
 + 7.0
 10.11

8022

Mar. 21, 1908

U Gem 074922 set 48'

10 11 7 48 + 23.3 + 22.7
 10 13 2 25w 2:36w
 10.23
 as b 4 d 3 d 5 e 6 f 4 g 5 h 5 h' 5 h 3 l d l'

10 20 R Coronae 154422 Fly set 6.0

7 00 Mars set eyes a turn 5 hours

2nd Can Run 072708 set

7 19 + 8.6
 10 21
 3 2w

Abandoned

6
 17 870 R.P.P.
 78 1045

Found small mira returned tonight 151
9200

Tuesday March 24/08

JD 8025

L. C. obs.

St. Blackett, recorder 8025

- Aurigae 060547 est = w 5 var

6 2 +47.4

var almost at L.V.

7 30

1 28 W

23 S 4 + 4 u 5 w

ST 7 41

HA 1.37 W

+47.9

U Gemin 074922

est ~~2'40.3 w~~
= 0 0 var

7 49 +23.3

7 46

3 #E

0 15 W

8 2

+22.6

a5 b4 d4 c3 e4 f4 g3 h4 h'4 k2 l3 m5 n

~~6~~ 403 n
50

R X Androm 00 5840

est 13.6

0 55 +41.6

8 4

7 9 W

7.11 W
8.8

+41.2

R Androm 004838

est 13.0

0 10 +37.9

8 10

8.0 W

7.55 W

8.12

+38.6

V Cassio 23 0759

est 9.0

23 4 +58.5

8 13

9 9 W

9.10 W

8 15

+59.5

Mar 24. 1908

8025 1

Z Cassiope

233956

est 13.6

23 37
8 17

+55.7

8 40 W

7.55

8 41 W

8.18

+58.5

R Cassiope

235350

est +1.2 w

23 52

+50.0

8 19

8 27 W

7.59

12.2

8 31 W

8 22

+51.2

Y Cassiope

235855

est 10.8

23 56

+54.7

8 23

8 27 W

8.1

8 29 W

8 24

+55.6

RR Cassiope

235053

est 11.0

23 50

+53.0

8.26

8 36 W

8.4

8 39 W

8 27

+53.5

X Bephen

210382

est 13.3

21 12

+81.8

8 29

11 17 W

8.13

11 38 W

8 36

+82.9

March 24 1908

8025

8.50

V Bepler 003179

est 12.5

0 30 +79.4

9 11

8 41 W

8 45 W

9.13

~~+18.3~~~~+80.3~~

8 58

X Banelof 043274

est 3 var 5 μ

4 32 +75.5

9 14

4 44 W

4 50 W

9.21

+75.4

→ est 10.0

9.3

X Amigae 060450

6 1 +50.0

9 23

3 22 W

3 23 W

9.26

+50.7

9.7

V Amigae 061647

est 9.4

6 10 +47.0

9 27

3 17 W

3 17 W

9 30

+4.80

9.15

W Monoc 064707

est 10.7

6 45 -6.8

9 32

2 47 W

2 53

9.38

-6.7

Mar 24 1908

8025

9.18

Y Monoc 065111
 6.49 +11.5
9.39
 2.50 W

est 11.5

2.52 W
 9.41
 +11.6

9.21

V Canis Min. 070109
 7.0 +8.6
9.42
 2.42 W

est +1 N

2.44 W
 9.44
 +9.3

9.30

2 Puppis 072820b
 7.26 -20.5
9.45
 2.19 W

est ± 5.10

- 23K 6h 59 2l 59 ^{5m} 60.4h

2.28 W
 9.53
 -20.2

9.35

S Can Min 072708
 7.19 +8.6
9.55
 2.36 W

est 12.2

9.58 ~~W~~
 2.33 W
 +8.8

9.38

T Can Min 072811
 7.26 +12.0
9.59
 2.33 W

est 14.0

var assumed to be N. foll of anta
 (of very close double)
 2.35 W

10.1
 +12.2

Mar 24 1908

8025

9.40

U Can Min 07 35 08

7 33 +8.7

10 2

2 29 W

est 10.0

2.29

10 3

+8.8

9.43

X Hydrae 09 30 14

9 30 -14.2

10 4

0 34 W

est 11.8

0 38 W

10. 6

-14.2

9.47

R R Hydrae 09 40 23

9 36 -23.3

10 7

0.31 W

est fainter than 13.5

0 35 W

10 13

-23.2

9.53

Y Hydrae 09 46 22

9 46 -22.6

10 14

0 28 W

est 6.5

var bright for this telescope

0 32 W

10 16

-22.2

9.57

~~21~~ Puppis 07 58 12

7 54 -12.6

10 18

2 24 W

est 23.25

2 26 W

10 20

-12.2

March 24, 1908

n 25

10
7

X Gemin 064030

est 11.2

6 38 +30.8

10 26

4 3 W

3 48

3.51 W

10.20

+30.8

10.9

R S Gemin 065530

est 11.0

6 52 +30.4

10 31

3 39 W

3.39 W

10.32

+30.8

10.11

R Gemin 070122a

est 13.5

6 56 +22.9

10 33

3 37 W

3.35 W

10.34

+23.3

10 19

V Gemin 071713

est 10.9

7 14 +13.4

10 35

3 21 W

3.27 W

10.42

+13.6

10 25

S Lynx 063558

est 12.29

6 34 +57.3

10 43

4 9

4.14 W

10.48

+58.3

March 24, 1908

8025

10 38	$ \begin{array}{r} S \text{ gemm} \\ 7 \quad 34 \\ 11 \quad 0 \\ \hline 3 \quad 26 \end{array} $	$ \begin{array}{r} 0737 \quad 23 \\ +23.8 \end{array} $	$ \begin{array}{r} est \quad 13.0 \\ \\ 3.26 \text{ W} \\ 11.1 \\ +23.9 \\ est \quad 10.0 \end{array} $
10 42	$ \begin{array}{r} T \text{ gemm} \\ 7.43 \\ 11 \quad 2 \\ \hline 3.19 \end{array} $	$ \begin{array}{r} 0743 \quad 23 \\ +24.0 \end{array} $	$ \begin{array}{r} 3.24 \text{ W} \\ 14 \quad 5 \\ +24.2 \\ est \quad 13.5 \end{array} $
10 47	$ \begin{array}{r} W \text{ Cancri} \\ 9 \quad 3 \\ 11 \quad 6 \\ \hline 2 \quad 3 \text{ W} \end{array} $	$ \begin{array}{r} 090425 \\ +26.0 \end{array} $	$ \begin{array}{r} 2 \quad 8 \text{ W} \\ 11 \quad 10 \\ +25.6 \\ est < 13.5 \end{array} $
10 51	$ \begin{array}{r} V \text{ Serpens} \\ 9 \quad 51 \\ 11 \quad 11 \\ \hline 1.20 \end{array} $	$ \begin{array}{r} 095421 \\ +22.0 \end{array} $	$ \begin{array}{r} 1 \quad 23 \text{ W} \\ 11 \quad 14 \\ +23.3 \end{array} $
10 54	$ \begin{array}{r} R \text{ Corvinae} \\ 154428 \end{array} $	$ \begin{array}{r} F. R \\ estimate a 3.36 \\ 32 \\ 3 \end{array} $	$ \begin{array}{r} = 0.4 \\ 902 \pm \\ 154428 \end{array} $

8031

Monday, Mar 30, 1908,
 L.C. Obs H.E.B. Rec.

- Aurigae 060547

6 2 +47.5

7 56

1 54 W

var. not seen, < 12.8

region considerably hazy

(8 p.m. quit work too cloudy too hazy for further work)

1.59 W

8.3

+48-8

— 9^h 52^m L.P.P.
 1 159

Thursday ~~Jan~~ April 2.08

L. C. Obs

H & B Rec

 Po^{34}
8034

Reappearance of Jupiter I

11 2 16 at 10 3:00 EMT

Satellite suspected 5⁰ before
first
 $11 \ 21 \ 53.5 = 11:21.48$
 $22 \ 22 = \text{well seen}$
 $23 \ 26$

satellite nearly equal to companion

$$\begin{array}{r} 8 \ 24 \\ 11 \ 7 \\ \hline 2 \ 43 \end{array}$$

Satellite reappeared very close to Satellite III
making actual time of reappearance perhaps a
little tardy

Reappearance = 11 29 17 = 10 30.0 EMT.

060547 - Arigae

est W 3 N

$$\begin{array}{r} 6 \ 2 \\ 11 \ 33 \\ \hline \end{array} + 47.5$$

10 43

5.31 W

5 38 W

11 43

+47.8

11 59 19

R Comae

var suspected.

seen, 14.0

10 58

$$\begin{array}{r} 11 \ 56 \\ 11 \ 45 \\ \hline 11 \ 44 \end{array}$$

+20.2

0 4 E

11 58

+19.4

8034

Thursday April 2/08

	12 46 06	U Virginus	est 10.3
10 57	12 42 +6.0		0 47 E
	<u>11 55</u>		11 57
	0 47 E		+6.2

	<u>12 09 05</u>	T Virginus	est 13.8
11 0	12 9 -5.2		0 8 E
	<u>11 58</u>		12.0
	0 11 IV		-5.9

	14 01 13	Z Boobs	est 9.5
11 5	13 57 +13.5		1 56 E
	<u>12 1</u>		12.5
	1 56		+14.1

	14 49 18	U Boobs	est 12.5
11 7	14 48 +18.3		2 42 E
	<u>12 5</u>		12 7
	2 43 #		+18.2

	15 45 36	X Coronae	est 13.7
11 11	15 46 +36.1		3 33 E
	<u>12 8</u>		12 11
	3 38 E		+36.5

Thursday April 2.08

8034

	15 52 29	- Cormae	est 13.5	
	15 50	+29.9		3 37 E
	12 12			12 14
11 14	3 38 E			+29.7

	16 11 38	W Cormae	est 12.2	
	16 8	+38.5		3 54 E
	12 15			12 17
11 17	3 53 E			+38.2

	16 06 25	RV Herchen	est 12.8	
	16 4	+25.9		3 44 E
	12 18			12 20
11 20	3 46 E			+35.3

	17 54 58	T Draconis	est $T=10.5$	-Drae. not separated from T
	17 51	+57.0		5 18 E
	12 21			12 36
11 36	5 30 E			+58.3

	17 56 54	V Draconis	est 10.3	
	17 56	+55.0		5 16 E
	12 38			12 40
11 40	5 18 E			+55.2

8034

Thursday April 2.28

1806 65

X Draconis

est 10.2

11 42

18 6 +65.8

12 40

5 26. E

5 24 E

12 42

+66.3

18 05 65

W Draconis

est 10.0

11 44

5 20 E

12 44

+65.9

1302 12

RV Virginis

var volzen < 13.8

11 47

13 0 -12.2

12 45

15 E

0 14 E

12 47

-12.3

13 59 08

RR Virginis

var < 13.5

11 50

13 57

-8.5

12 48

1 9 E

E

1 8 E

12 50

-8.6

14 22 05

RS Virginis

est 12.7

11 53

14 23

+5.5

12 50

1 33 E

1 28 E

12 53

+5.2

Thursday April 2.08

8034

11 54	<u>14 05 12</u> 14 2 -12.6 <u>12 53</u> 1 9 E	2 Virgo	est 10.7	1 9 E 12 54 -12.7
11 56	<u>14 34 17</u> 14 31 -17.3 <u>12 55</u> 1 36 E	V Librae	est 11.0	1 37 E 12 56 -17.2
12.0	15 46 15 15 44 +15.3 <u>12 57</u> 2 47 E	R Serpentinis	est 10.5	2 45 E 14 00 13.00 +15.4
12 3	16 01 18 16 2 +17.5 <u>13 2</u> 15 1 E 9 0 30 E	R Hercules	est 9.0	2 57 E 13 3 +18.6
12 4	16 02 10 16 1 +10.2 <u>13 4</u> 2 57	U Serpentinis	est 9.7	2 56 E 13 4 +10.3

8034

Thursday April 2/08

12 7

$$\begin{array}{r} 16\ 31\ 37 \\ 16\ 30 \\ 13\ 5 \\ \hline 3\ 25\ E \end{array}$$

W Hercules

est 13.5

$$\begin{array}{r} 3\ 24\ W \\ 13\ 7 \\ \hline +37.5 \end{array}$$

12 9

$$\begin{array}{r} 16\ 21\ 19 \\ 16\ 16 \\ 13\ 8 \\ \hline 3\ 8\ E \end{array}$$

U Hercules

est 12.0

$$\begin{array}{r} 3\ 10\ E \\ 13\ 9 \\ \hline +19.2 \end{array}$$

12 11

$$\begin{array}{r} 16\ 28\ 07 \\ 16\ 26 \\ 13\ 10 \\ \hline 3\ 16\ E \end{array}$$

SS Hercules

est 9.5

$$\begin{array}{r} 3\ 16\ E \\ 13\ 11 \\ \hline +7.2 \end{array}$$

12 13

$$\begin{array}{r} 16\ 47\ 15 \\ 16\ 46 \\ 13\ 12 \\ \hline 3\ 34\ E \end{array}$$

S Hercules

est 9.7

$$\begin{array}{r} 3\ 32\ E \\ 13\ 13 \\ \hline +15.2 \end{array}$$

12.15

$$\begin{array}{r} 17\ 06\ 27 \\ 17\ 4 \\ 13\ 14 \\ \hline 3\ 50\ E \end{array}$$

RT Hercules

est 11.8

$$\begin{array}{r} 3\ 50\ E \\ 13\ 15 \\ \hline +27.2 \end{array}$$

April 2. 08

8034

	17 17 23	RS Hercules	est 10.4	
12 17	17 18 +23.1			3 58 E
	<u>18 16</u>			13 17
	4 2 E			+23.1

	16 56 31	RT Hercules	est 11.0	
12 20	16 55 +31.1			3 36 E
	<u>13 18</u>			13 20
	3 37 E			+31.5

	18 05 31	T Hercules	est 11.8	
12 22	18 2 +24.7			4 42 E
	<u>13 20</u>			13 22
	4 42 E			+31.0

	<u>1500 18</u>	RT Librae	est 13.0	
12 41	14 58 -18.6			1 18 E
	<u>13 39</u>			13 41
	1 19 E			-18.3

	<u>1505 19</u>	T Librae	est 10.9	
12 43	15 3 -19.4			1 20 E
	<u>13 42</u>			13 43
	1 21 E			-19.4

8034 i

April 2, 1908

12 45	<u>150605</u> 15 4 -5.0 <u>13 44</u> 1 20 E	Y Librae	est 13.7	1 20 E 13 45 -5.6
12 47	<u>151520</u> 15 13 -20.0 <u>13 46</u> 1 27	S Librae	est 10.1	1 27 E 13 47 -20.2
	<u>151714</u> 15 14 +15.1 <u>13 48</u> 1 26 E	S Serpens		
		abandoned for the present		
12 50	<u>151822</u> 15 14 -22.5 <u>13 49</u> 1 25 E	RS Librae	est 11.5	1 26 E 13 50 -22.4
12 52	<u>152714</u> 15 27 -14.3 <u>13 51</u> 1 36 E	RV Librae	est 11.1	1 34 E 13 52 -14.8

April 2 1908

	<u>153020</u>	X Librae	est 11.6	
12 54	15 27	-20.6		1 35 E
	<u>13 53</u>			13 54
	1 34 E			-20.7

	<u>153620</u>	U Librae	est 9.4	
13 0	15 32	-20.9		1 34 E
	<u>13 55</u>			14.0
	1 37 E			-20.8

	<u>154020</u>	Z Librae	est 13.0	
13 5	15 38	-20.8		1 34 E
	<u>14 1</u>			14 5
	1 37 E			-20.7

	<u>154715</u>	R Librae	est < 13.2	
13 8	15 46	-16.2		1 38 E
	<u>14 5</u>			14 8
	1 41 E			-15.9

	<u>155018</u>	RR Librae	est 10.6	
13 10	15 48	-17.9		1 40 E
	<u>14 9</u>			14 10
	1 39 E			-17.9

8034

April 2, 1908

13 12	<u>155823</u> 15 58 -23.2 <u>14 10</u> 1 48 E	RZ Scorpii	est 9.4	1 45 E 14 12 -23.8
13 15	<u>160524</u> 16 6 -24.0 <u>14 12</u> 1 54 E	RX Scorpii	est 12.5	1 50 E 14 15 -24.6
13 16	<u>160021</u> 15 58 -21.5 <u>14 16</u> 1 42 E	Z Scorpii	est 10.2	1 42 E 14 16 -21.4
13 18	<u>160221</u> 16 0 -21.0 <u>14 17</u> 1 43 E	X Scorpii	est 5.2 k	1 42 E 14 18 -20.9
13 20	<u>160519</u> 16 2 -19.7 <u>14 19</u> 1 43	W Scorpii	est 9.1 N gt.	1 44 E 14 20 -19.8

April 2, 1908

8034

13 22	<u>16 11 22 a</u> 16 9 <u>14 21</u> 1 48 E	R Scorpii	R not seen < 13.0 S not seen < 13.0	1 48 E 14 22 -22.6
-------	---	-----------	--	--------------------------

13 24	<u>16 21 12</u> 16 19 <u>14 23</u> 1 56 E	V Ophiuchi	est 7.7	1 55 E 14 24 -11.9
-------	--	------------	---------	--------------------------

13 27	<u>17 14 01</u> 17 14 <u>14 26</u> 2 48 E	Z Ophiuchi	est 12.8	2 46 E 14 27 +1.7
-------	--	------------	----------	-------------------------

13 55	<u>16 23 19</u> 16 19 <u>14 50</u> 1 29 E	Y Scorpii	est 11.6 new variable N prec. Y = 11.1	1 27 E 14 55 -19.1
-------	--	-----------	--	--------------------------

13 57	<u>16 28 15</u> 16 24 <u>14 56</u> 1 28 E	T Ophiuchi	est 9.0	1 30 E 14 57 -15.8
-------	--	------------	---------	--------------------------

8034

April 2, 1908

13 59

1628 16

S Ophiuchi

est 13.0

1 28 E

14 59

-16.6

14 2

1643 19

R R Ophiuchi

est 10.4

16 40 -19.0

15 00

1 40 E

1 40 E

15 2

-19.2

14 5

1702 15

R Ophiuchi

est 11.0

17 2 -15.5

15 2

2 0 E

1 55 E

15 5

-16.0

14 7

172809

R U Ophiuchi

est 12.4

17 28 +9.6

15 6

2 22 E

2 20 E

15 7

+9.6

14 8

174406

R S Ophiuchi

est 11.0

17 43 -6.8

15 8

2 35 E

2 34 E

15.8

-6.8

April 2, 1908

8034

	17514	RT Ophiuchi	est < 13.2	
14 10	17 51	+11.0		2 40 E
	15 9			15 10
	2 42 E			+11.3

	175519	RY Herculis	est cl. 2d	
14 12	17 54	+19.6		2 41 E
	15 11			15 12
	2 43 E			+19.6

	181103	RY Ophiuchi	est 12.6	
14 15	18 7	+3.6		2 55 E
	15 13			15 15
	2 54 E			+3.8

	21384 ³	SS Cygni	est 12.0	
14 19	21 37	+43.6		6 18 E
	15 17			15 19
	6 20			+43.3

Repair left hand
cord light connection

54 956 P.P.
8 167 P

172

8038

April 6, 1908

2038

J. C. Ols

H E B rec.

060547

- Aurigae

est < 13.5

7 22

$$\begin{array}{r} 62 \\ 839 \\ \hline 237 \end{array} +47.4 \text{ W}$$

2 38 W

8 43

+47.8

011272

S Cassiope

est 11.8

7 31

$$\begin{array}{r} 19 \\ 844 \\ \hline 735 \end{array} +71.4 \text{ W}$$

5 42 W

8 52

+72.2

014958

X Cassiope

est 9.5

suspected var near $X=10.0$

7.43

$$\begin{array}{r} 146 \\ 854 \\ \hline 78 \end{array} +58.5 \text{ W}$$

7 17 W

9 4

+58.6

021143

W Androm

est < 12.5

7 47

$$\begin{array}{r} 24 \\ 96 \\ \hline 72 \end{array} +43.6 \text{ W}$$

6 58 W

9 8

+44.2

032355

R Persei

est 9.5

7 53

$$\begin{array}{r} 523 \\ 99 \\ \hline 546 \end{array} +35.0 \text{ W}$$

5 52 W

9 14

+35.4

April 6 1908

8038

7 57 021281 Z Cephei est < 13.0

2 0 +81.0
 9 15
~~8~~
 7 15 W

7 8 W
 9 18
 +81.4

7 59 023080 RR Cephei est 12.5

2 30 +80.7
 9 19
 6 49

6 53 W
 9 20
 +80.8

8 20 052036 W Aurigae est 12.0

5 15 +37.2
 9 22
 4 7 W

8 43 054231 - Aurigae est 12.1

5 40 +31.5
 9 43
 4 3 W

4 22 W
 10 4
 +31.8

8 52 054974 V Camelopardalis est < 13.5

5 45 +73.9
 10 11
 4 26 W

4 25 W
 10 13
 +74.6

174

8038

April 6, 1908

8 57

070109

V Lani

est < 13.5

$$\begin{array}{r} 70 \\ 1014 \\ \hline 314 \end{array} + 8.8$$

3 19 W
10 18
+ 9.2

9 1

074922

U Gemm

est 13.8

$$\begin{array}{r} 749 \\ 1019 \\ \hline 230 \end{array} + 22.2$$

2 35 W
10 22
+ 22.3

9 5

081112

R Cancri

est 11.8

$$\begin{array}{r} 89 \\ 1023 \\ \hline 214 \end{array} + 11.8$$

2 16 W
10 26
+ 12.2

9 8

081617

V Lani

est 12.9

$$\begin{array}{r} 818 \\ 1027 \\ \hline 29 \end{array} + 17.5$$

2 15 W
10 29
+ 12.6

9 12

083019

V Cancri

est 10.8

$$\begin{array}{r} 830 \\ 1030 \\ \hline 20W \end{array} + 19.8$$

2 4 W
10 33
+ 19.2

April 6. 1908

8038

89 18

090425

W Caneri

m 3.3 n

93

+260

10 34

1 31

136 W

10 39

+25-6

reappearance of Jupiter III observed with eyepiece

8 25

11 16

2 51

~~Leard's~~ watch N used = 4 sec fast.
at 10:05Campbell's est = 10 25 ~~23~~
~~30~~

Leard's est = 10 27 10

watch N at 10 32 = 4 sec fast

satellite reappeared at 10.25.19 8.9m.2

12 962

5 152

L.P.P.

154428

R Coronae

est F.G 5.9

(obs recorded from memory Apr. 7.08)

P.P.

Thurs. April 9, 1908
 LC OB JD 8041

γ Cephei 003179. est 12.2

9 33 0.31 +79.4 +79.4
 10.58 11.3
 10.28W 10.29W

X Camelopardalis 043274 est 13.3

9 38 4.38 +75.5 +75.2
 11.06 11.8
 6.34W 6.36W

060547 - Aurigae est < 13.2

9 43 6.2 +47.5 +47.8
 11.10 5.8W
 5.8W 11.13

063558 δ Lynx est 12.8

9 49 6.34 +57.3 4.42W
 11.14 +58.2
 4.40 11.19

065355 R Lynx 6.49 +55.8 est 12.6

9 53 6.49 +55.8 +55.6
 11.19 4.31W
 4.30E 11.23

Apr. 9, 1898

80451

U Gemin 074922 est < 12.0
 10 00 7 49 +22.5
 11 24
 3 35W — Moon near

3.9
 11:27
 +22.4
 3:40W

X Urs Maj. 083350 est az 36

10 A 8 30 +50.4
 11 32
 3 2W

+50.4
 3:4W
 11:3A

Y Draco 09317A est 120

10 13 9 29 +7A.6
 11 39
 2 10W

+7A.6
 2:12W
 11:43

St Leonis 110506 est 11.8

10 19 11 1 +6.0
 11 45
 0 44W

+6.2
 11:49
 0:42W

St Virgins 122001 est var 7 a

10 25 12 18 +20
 11 50
 0 20E

+1.5
 0:25E
 11:55

select & brighter
 than a.

8041

April 9, 1908.

T Ursae Min 13 327 3

13 36 +75.0

11 58

1 38 E

T Ursae Min 133273 est 13.2

13 36 +75.0

12 37

0 59 E

0 44 E

12 49

+74.0

141587 U Ursae Min est 11.5

14 15 +67.5

12 50

1 25 E

1 22 E

12 52

+67.3

143227 R Bootis est 12.5

14 37 +27.2

12 54

1 43 E

1 34 W

12 58

+27.3

122803 Y Virginis est 9.8

12 26 -3.6

12 59

0 33 W

0 33 W

13 1

-3.7

refrain cord light 24"

April 9, 08

8041

11 36

132202

V Virginis

est 11.9

13 24 -2.4

13 2

0 22 E

0 27 E

13 4

-2.6

11 39

132706

SV Virginis

est ~~75~~ 10.5

13 24 -5.5

13 5

0 19 E

0 19 E

13 7

-6.6

11 42

151714

S Serpens

est 12.8

15 14 +15.2

13 82 6 ~~W~~

2 6 W

13 10

+14.8

11 46

161138

W Corvinae

est 12.3

16 8 +38.5

13 11

2 57 E

2 57 E

13 14

+38.3

11 48

165831

RV Hercules

est 11.4

16 55 +31.1

13 15

3 40 E

3 40 E

13 16

+31.4

8042

April 9. 1908

154615 R / Serpens

est 10.4

11 50

15 44 +15.0

13 17

2 27 E

2 26 E

13 19

+15.4

160118 Pterocles

est 8.4

11 55

16 2 +17.5

13 22

2 40 E

2 37 E

13 23

+18.6

16 0210

U Serpens

est 9.2

11 58

16 1 +10.2

13 25

2 36 E

2 36 E

13 25

+10.4

Reap. Jup I 24"

L.C. Ob.

Blanchett Rec.

G = 12:06:46 — at 12:07:00

Watch N = 12:08:15 at 12:08:00

Watch N. 12:17:45 — Campbell Ob 24

Sat. reappeared at 12:17:25

as watch 12 17 52 = Blanchett Ob 5"

Sat. reappeared at 12:18:06

Sat. will seen at time of observation, probably
reappeared before observed time

20 988

175

P.P.R.

Monday April 13th 1908

L. B. Obs

H.B. rec

8045

060547

- Aurigae

est < 13.0

46 2 +47.5

10 8

4 6 W

4 7 W

10 12

+47.8 4 7 W

8 31

074922 U Gemm

est < 13.4

7 49 +22.4

10 13

2 24 W

2 28 W

10 15

+22.4

8 34

065530 RS Gemm

est 10.5

6 52 +29.5

10 23

3 31 W

3 32 W

10 26

+30.7

8 44

073723

S Gemm

est 11.7

7 34

+23.8

10 27

2 33 W

2 55 W

10 31

+23.8

8 50

070122

R Gemm

est 13.6

6 56 +22.9

10 33

3 37 W

3 35 W

10 34

+22.8

8 53

8045

Monday April 13. 08

072811 T Can Min est 12.8

7 27 +12.0

10 35

3 8 W

3 10 W

10 37

+12.0

8.56

073508 U Can Min est 9.6

7 33 +8.7

10 39

3 6

3 5 W

10 39

+8.6

8.58

065711 Y Inae est 11.0

6 49 +11.5

10 40

3 51

3 51 W

10 41

+11.4

9.00

064030 X Gemini est 12.2

6 38 +20.6

10 42

4 4

4 4 W

10 43

+20.4

9.03

071713 V Gemini est 12.0

7 13 +13.4

10 45

3 32 W

3 30

10 46

+13.3

9.5

Monday April 13.08

8045

9 11	053531 5 31 +31.8 <u>10 48</u> 5 17 W	U Aurigae est 12.5	var. seen with green will likely 5 18 W 10 52 +32.1
9 13	052034 5 16 +34.0 <u>10 53</u> 5 37 W	S Aurigae est 9.0	5 35 W 10 54 +34.2
9 18	055353 5 50 +53.5 <u>10 55</u> 5 5 W	Z Aurigae est 9.8	5 6 W 10 59 +53.3
9 21	053068 5 28 +68.7 <u>11 0</u> 5 32 W	S Camelopardalis est 8.6	5 34 W 11 2 +68.8
9 26	070310 7 3 +10.0 <u>11 4</u> 4 1	R Camelopardalis est 7.7	var. bright and red 4 6 W 11 8 +10.2

8045

Monday April 13.08

9 30

0616 47

V Aingae

est. 9.0

6 10 +47.0

11 9

4 59

4 57 W

19 12

+47.7

9 51

0604 50

X Aingae

est 8.7

6 1 +50.0

11 28

5 27 W

5 28 W

10 31

+50.3

9 55

081112

R Cancer

est 11.5

8 5 +11.5

+11 32

3 27 W

3 25 W

11 35

+12.0

9 58

081617

V Cancer

est 13.0

8 18 +17.5

18 36

3 18 W

3 24 W

11 39

+17.6

10.0

0830 19

V Cancer

est 10.5

8 30 +19.8

11 40

3 10 W

3 12 W

3 12 W

11 41

+19.4

April 13. 08

	09 42 11	R Lems	est 8.2	
	9 39	+12.0		2 4 W
	11 42			11 44
10 4	<u>2 3</u>	W		+11.6

	09 54 21	V Lems	est 11.0	
	9 51	+22.0		1 57 W
	11 45			11 49
10 8	<u>1 54</u>			+11.8

	09 39 34	R Lems	est 11.5	
	9 34	+35.0		2 15 W
	11 51			11 53
10 12	<u>2 17</u>			+35.1

	10 48 14	W Lems	est 12.0	
	10 44	+14.5		1 10 W
	11 55			11 57
10 16	<u>1 14</u>			+14.2

disappearance of Jupiter Sat. III. L.C. obs H.B. rec

C's watch 15 sec slow at 10 27.08 m J.

(std) 10 54 45^h 53 thought to have gone 22 10 10
2 17610^h 54^m 53^s

∴ sat dis. at 10:55.04 m J. C's watch 2 m J. P.P.

C's watch 14 sec slow at 10:57.00

8049

April 17th 1908 Friday

Reappearance of Jupiter's Satellite II.

EC Ob.

C's watch 9 10 25 = 9 10 0 EMT

25 s fast

H.E.B. Rec.

9 19 10	9 19 39 -3	seen	
19 28	9 19 54	343	653
19 41	20 7	324	
19 53	20 19	311	
20 2	20 28	290	
16	42	263	
30	56	250	
49	21 15	238	
	24	230	
20 38	21 56	218	objective shade shifted to
21 30			
22 8 ±	22 34 ±	226	500 objective shade shifted to
22 46	23 12	270	400
23 0	26	240	
16	42	226	
25	51	280	
45	24 11	246	
53	19	220	
24 4	30	236	
13	39	226	
27	53	250	
39	25 5	233	
47	13	228	
54	20	216	
9 25 1	27	220	400

C's watch 9 31 27 = 9 31 0 EMT

27 s fast

April 17. 1908

8049

J B Ols JD. 8049

H.B.ree

074922

U gemm

est < 12.8

7 49

+ 22.4

4 2 W

11 47

11 50

3 58 W

+ 22.4

q 52

074323

T gemm

est 12.8

7 38 + 24.0

4 11 W

11 52

11 53

4 14 W

+ 24.2

q 55

063558

S Lynce

est < 12.8

6 34 + 57.2

5 23 W

11 55

11 58

5 21 W

+ 58.2

10 0

065355

R Lynce

est 12.8

6 49 + 55.0

5 10 W

12 0

12 2

5 11

+ 55.4

10 4

050953

R Aurigae

est 11.8

5 3 + 53.0

6 58 W

12 4

12 6

7 1 W

+ 53.6

10 8

April 17, 1908

21 08 68

T Cephei

est 7.4

10 18

$$\begin{array}{r} 21 \ 5 \\ 12 \ 14 \\ \hline 8 \ 51 \end{array} +68.0$$

$$\begin{array}{r} 8 \ 51 \text{ E} \\ 12 \ 16 \\ \hline +68.3 \end{array}$$

21 36 78

S Cephei

est 7.1 var. very red bright

10 21

$$\begin{array}{r} 21 \ 36 \\ 12 \ 18 \\ \hline 9 \ 18 \text{ E} \end{array} +78.0$$

$$\begin{array}{r} 9 \ 19 \text{ E} \\ 12 \ 19 \\ \hline +78.3 \end{array}$$

17.54 58

T Dracons

double var. cannot be separated

10 29

$$\begin{array}{r} 17 \ 51 \\ 12 \ 20 \\ \hline 5 \ 31 \text{ E} \end{array} +57.0$$

combined light = 9.3

$$\begin{array}{r} 5 \ 27 \text{ E} \\ 12 \ 27 \\ \hline +59.4 \end{array}$$

18 05 65

W Dracons

est 9.8

10 34

$$\begin{array}{r} 18 \ 5 \\ 12 \ 20 \\ \hline 5 \ 35 \text{ E} \end{array} +65.8$$

$$\begin{array}{r} 5 \ 33 \text{ E} \\ 12 \ 32 \\ \hline +66.2 \end{array}$$

18 06 66

X Dracons

est 10.0

10 34

$$\begin{array}{r} 8 \ 1018 \\ 2 \ 178 \end{array}$$

$$\begin{array}{r} 5 \ 36 \text{ E} \\ 12 \ 32 \\ \hline +66.5 \end{array}$$

P.P.P

Large minor & small minor ~~recovered~~

189

L.C. obs

Tuesday April 21, 1908

A053 8053

HB rec

- Aurigae 060547

est < 13.0

some light cloud, or
height somewhat along

62 +47.5

345 W

951

+47.8

7 37

V Gemini 074922

est 13.6

749 +22.4

26 W

952

955

23 W

+22.4

7 40

S Aurigae 052034

est 9.0

color 8

516 +34.0

443 W

~~100~~

102

444 W

+34.0

7 48

W Aurigae 052036

est 12.6

515 +37.2

445 W

103

104

448 W

+36.9

7 50

RR Lani 053326

est 11.0

531 +35.8

634 W

105

106

434 W

+26.3

7 52

8053

April 21. 08

7 54

- Aurigae 054231

f6.3d

$$\begin{array}{r} 540 \\ + 107 \\ \hline 427W \end{array}$$

$$\begin{array}{r} 427W \\ 109 \\ +31.6 \end{array}$$

7 58

U Aurigae 053531

< 13.2

$$\begin{array}{r} 531 \\ + 1010 \\ \hline 439W \end{array}$$

$$\begin{array}{r} 438W \\ 1012 \\ +31.9 \end{array}$$

8 3

Z Aurigae 055353

est 9.8

$$\begin{array}{r} 550 \\ + 1014 \\ \hline 426W \end{array}$$

$$\begin{array}{r} 425W \\ 1017 \\ +53.3 \end{array}$$

8 4

X Aurigae 060450

est 8.5

$$\begin{array}{r} 61 \\ + 1018 \\ \hline 417W \end{array}$$

$$\begin{array}{r} 415W \\ 1018 \\ +50.4 \end{array}$$

8 6

V Aurigae 061647

est 9.0

$$\begin{array}{r} 610 \\ + 1019 \\ \hline 49W \end{array}$$

$$\begin{array}{r} 45W \\ 1020 \\ +27.8 \end{array}$$

April 21.08

8058

8 10 X Gemma 064030 est 12.2
 6 28 +30.7
 10 22
 3 44 W 3 45 W
 10 25
 +30.5

8 15 W Monoc 064707 est 10.4
 6 45 -6.9
 10 26
 3 41 W 3 43 W
 10 20
 -7.0

8 20 X Monoc 065208 est 8.0
 6 50 -8.0
 10 31
 3 41 W 3 43 W
 10 24
 -8.8

8 22 Y Monoc 065711 est 10.0
 6 49 +11.5
 10 35
 3 46 W 3 46 W
 10 36
 +11.5

9 25 Y Cephei 003179 est 12.5
 0 30 +79.5
 10 29
 10 9 W 11 10 W
 11 39
 +79.7

8053

April 21.08

9 30

S Cassiope 01 12 72

est 10.0

$$\begin{array}{r} 18 \\ 1140 \\ \hline 1032 \end{array} + 72.0$$

$$\begin{array}{r} 1032W \\ 1145 \\ \hline +72.2 \end{array}$$

9 33

X Camelopard 043274

est 12.0

$$\begin{array}{r} 432 \\ 1146 \\ \hline 714W \end{array} + 75.5$$

$$\begin{array}{r} 716W \\ 1148 \\ \hline +75.2 \end{array}$$

9 38

V Camelopard 054974

< 13.0

$$\begin{array}{r} 545 \\ 1149 \\ \hline 64W \end{array} + 73.9$$

$$\begin{array}{r} 65W \\ 1152 \\ \hline +74.8 \\ +2 \end{array}$$

9 42

S Camelopard 053068

est 10.2

$$\begin{array}{r} 530 \\ 1153 \\ \hline 623W \end{array} + 68.8$$

$$\begin{array}{r} 629W \\ 1157 \\ \hline +68.9 \end{array}$$

9 46

X Ursa Major 083350

est 9.4

$$\begin{array}{r} 830 \\ 1158 \\ \hline 328W \end{array} + 50.4$$

$$\begin{array}{r} 327W \\ 120 \\ \hline +50.4 \end{array}$$

April 21-08

8053

Y Draconis 093178 est 11.0
 9 29 +78.7
 12 1
 2 32 W
 9 49
 2 35 W
 12 3
 +78.5

R Ursae Major 103769 est 13.0
 10 32 +69.4
 12 4
 1 32 W
 9 52
 1 20 W
 12 6
 +69.6

V Leonis 095621 est 9.8
 9 51 +22.0
 12 8
 2 17 W
 9 58
 2 19 W
 12 13
 +21.6

W Leonis 104814 est 11.7
 10 45 +14.2
 12 14
 1 29 W
 10 0
 1 28 W
 12 15
 +14.3

S Leonis 110506 est 12.0
 11 2 +6.4
 12 17
 1 15 W
 10 3
 1 14 W
 12 17
 +5.8

8053

April 21.08

10 5

R Comae

1159.9

est 14.0

11 57 +19.5
 12 18
 ———
 0 21 W

0 22 W
 12 19
 +19.4

10 14

T ~~Comae~~ Virginis 120905

est 13.8

12 8 -5.2
 12 21
 ———
 0 13 W

0 21 W
 12 28
 -5.6

10 17

T Canum Ven 122532

est 10.9

12 24 +32.2
 12 50
 ———
 0 6 W

0 7 W
 12 31
 +31.8

10 18

R V Virginis

124204

est 9.3

color 8

12 40 +4.3
 12 32
 ———
 0 8 E

0 8 E
 12 33
 +4.7

10 21

R Canum Ven

134440

est 11.0

13 41 +39.3
 12 34
 ———
 1 7 E

1 8 E
 12 36
 +40.0

April 21.08

8058

10 25

RV Virginis

130212

est < 13.3

13 0 -12.4

12 37

23 E

0 21 E

12 40

-12.5

- 10 30

V Virginis

132202

est 13.2

13 23 -2.4

12 42

0 41 E

0 38 E

12 44

-3.4

10 32

S Virginis

132706

est 10.8

13 25 -5.5

12 45

0 40 E

0 40 E

12 46

-6.7

10 34

RB Virginis

135908

< 13.3

13 59 -8.6

12 47

1 12 E

1 10 E

12 48

-8.7

10 36

RS Virginis

142205

est 12.0

14 26 +5.5

12 50

1 34 E

1 30 E

12 51

+5.5

8058.14

April 21.08

R Coronae

154428

F.g est 5.8

31

1049

4

182

R.P.P.

Friday, April 24, 1908
 LC Obs.

8056

JD 79508

- Aurigae 060547 est < 12.5

9 30 Sky pretty hazy. Var possibly seen but not certainly.

9 50 est - Aurigae = < 13.0 sky darker now

- 1049 L PD
 2 184

Ledgered to date.

LC
 08-4-27

8908

8063

May 1, 1908 (Friday)

— Aurigae 0.6 05-47 est 11.4

7 57

$$\begin{array}{r} 6 \quad 2 \quad +47.5 \\ 10 \quad 38 \\ \hline 16 \quad 36 \quad W \end{array}$$

10:58'
 4 W

1:26 E 11:7 S.T.
 $\therefore RQ = 12:33$

122003 γ Virginis est 10.0 at P.5-8

0.45 1/2 E at 11:41 1/2 S.T.
 $\therefore RQ = 12:26$

12 16

$$\begin{array}{r} 12 \quad 27 \\ \hline 0 \quad 11 \quad E \end{array}$$

12 27

$$\begin{array}{r} 12 \quad 54 \\ \hline 0 \quad 27 \quad W \end{array}$$

12 27

$$\begin{array}{r} 13 \quad 32 \\ \hline 1 \quad 5 \quad W \end{array}$$

12 33

$$\begin{array}{r} 12 \quad 56 \\ \hline 0 \quad 23 \end{array}$$

May 11, 1908

8063 4

- Aurigae 060547

6 2 + 47.5

11 25

Too low

see next pages for comparison
 of Virgo's region in 24" x 15" by
 L.C.

2 105-14 pp
 - 104
 -

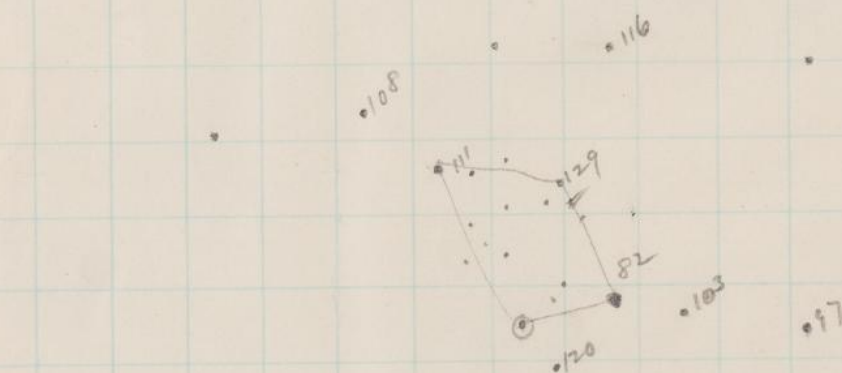
8063

LC

East Equat. I

L Virginis
South

May 1, 1908



North

γ Virginis

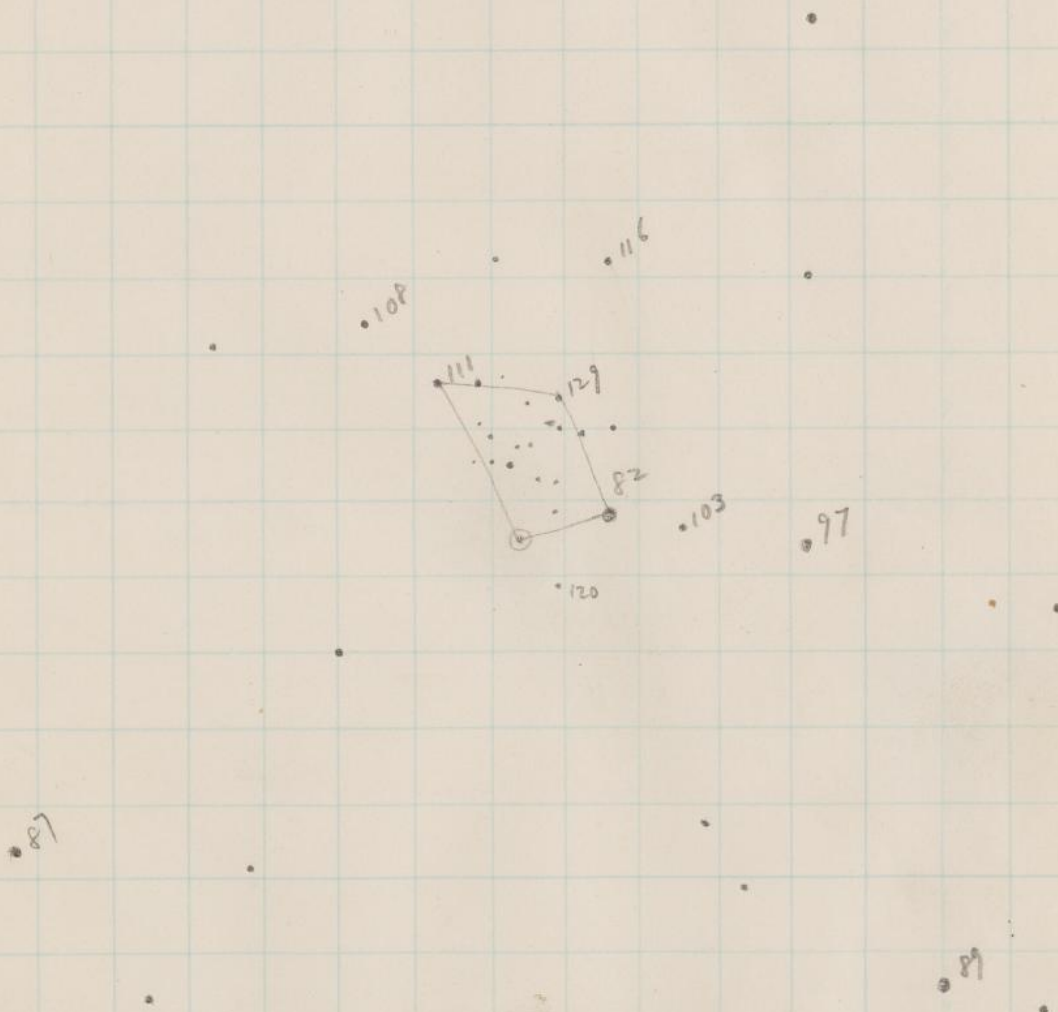
8063

L.C.

2x" reflector

South

May 1, 1908



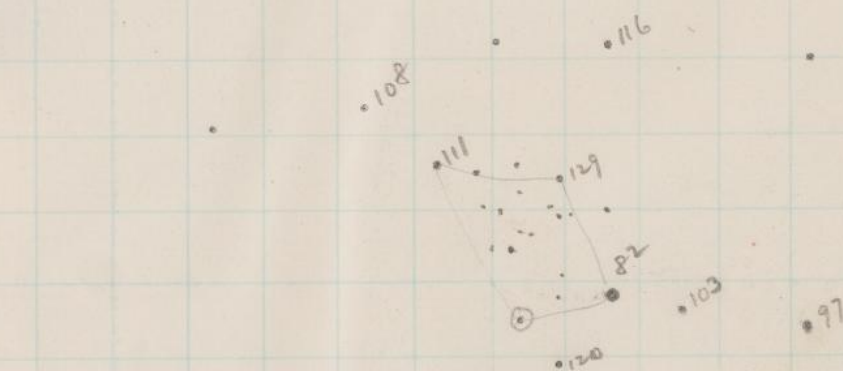
North

8063

East Equat. II

Y Vignis
S'outh

May 1, 1902



North

Sunday May 3, 1908

8065

JD 8065 ✓

Z Boobs 140113

est 8.9 ✓

11 15

$$\begin{array}{r} 13 \ 57 \ +13.5 \\ 14 \ 13 \\ \hline 16 \ W \end{array}$$

$$\begin{array}{r} 0 \ 16 \ W \\ 14 \ 16 \\ +14.1 \end{array}$$

R S Virgins 142205

est 14.0 ✓

11 18

$$\begin{array}{r} 14 \ 23 \ +5.4 \\ 14 \ 17 \\ \hline 6 \ E \end{array}$$

$$\begin{array}{r} 0 \ 2 \ E \\ 14 \ 19 \\ +5.4 \end{array}$$

R R Virgins 135708

est 14.0 ✓

11 21

$$\begin{array}{r} 13 \ 57 \ -8.5 \\ 14 \ 21 \\ \hline 24 \ W \end{array}$$

$$\begin{array}{r} 0 \ 25 \ W \\ 14 \ 23 \\ -8.5 \end{array}$$

Z Virgins 140512

est 11.0 ✓

11 23

$$\begin{array}{r} 14 \ 2 \ -12.6 \\ 14 \ 24 \\ \hline 22 \ W \end{array}$$

$$\begin{array}{r} 0 \ 22 \ W \\ 14 \ 25 \\ -12.6 \end{array}$$

V Librae 143417

est 13.3 ✓

11 26

$$\begin{array}{r} 14 \ 30 \ -17.2 \\ 14 \ 27 \\ \hline 3 \ E \end{array}$$

$$\begin{array}{r} 0 \ 5 \ E \\ 14 \ 28 \\ -17.1 \end{array}$$

8065.1

May 3, 1908

R T Librae 150018

est 10.4 ✓

14 58 - 18.5

$$\begin{array}{r} 14 \ 30 \\ \hline 28 \end{array} \text{E}$$

11 30

0 28 E

14 32

- 18.2

T Librae 150529

est 12.4 ✓

15 4 - 19.2

$$\begin{array}{r} 14 \ 33 \\ \hline 31 \end{array} \text{E}$$

11 32

0 30 E

14 34

- 19.4

Y Librae 150605

est 13.6 ✓

15 4 - 5.0

$$\begin{array}{r} 14 \ 35 \\ \hline 29 \end{array} \text{E}$$

11 35

star ϵ' = sup. var near Y
est 12.0

0 48 E

14 37

- 5.5

S Librae 151520

est 11.0 ✓

15 13 - 20.0

$$\begin{array}{r} 14 \ 38 \\ \hline 35 \end{array} \text{E}$$

11 43

0 29 E

14 45

- 19.9

R S Librae 151822

est 12.0 ✓

15 14 - 22.5

$$\begin{array}{r} 14 \ 46 \\ \hline 28 \end{array} \text{E}$$

11 46

0 29 E

14 48

- 22.4

May 3, 1908

8065

R U Librae 152714

est 9.8 ✓

11 50

$$\begin{array}{r}
 15\ 28 \\
 14\ 49 \\
 \hline
 39\ E
 \end{array}$$

$$\begin{array}{r}
 0\ 34\ E \\
 14\ 52 \\
 -14.8
 \end{array}$$

X Librae 153020

est 12.4 ✓

11 57

$$\begin{array}{r}
 15\ 27 \\
 14\ 53 \\
 \hline
 34\ E
 \end{array}$$

$$\begin{array}{r}
 0\ 35\ E \\
 14\ 53 \\
 -20.7
 \end{array}$$

U Librae 153620

est 10.2 ✓

11 53

$$\begin{array}{r}
 15\ 33 \\
 14\ 54 \\
 \hline
 39\ E
 \end{array}$$

$$\begin{array}{r}
 0\ 39\ E \\
 14\ 55 \\
 -20.7
 \end{array}$$

Z Librae 154020

est 13.3 ✓

11 56

$$\begin{array}{r}
 15\ 38 \\
 14\ 56 \\
 \hline
 42\ E
 \end{array}$$

$$\begin{array}{r}
 0\ 41\ E \\
 14\ 58 \\
 -20.5
 \end{array}$$

R Librae 154715

< 14.0 ✓

11 58

$$\begin{array}{r}
 15\ 46 \\
 14\ 59 \\
 \hline
 47\ E
 \end{array}$$

$$\begin{array}{r}
 0\ 46\ E \\
 15\ 0 \\
 -15.8
 \end{array}$$

May 3, 1908

12.0

R R Silae 1550 18 est 12.2 -

15 48 -17.9

15 1

47 E

0 47 E

15 2

-17.9

12.2

R Z Scorpio 1558 23 est 11.7 -

15 58 -23.2

15 3

55 E

0 53 E

15 4

-23.6

12.5

R X Scorpio 1605 24 est 13.8 -

16 3 -24.8

15 5

58 E

0 57 E

15 7

-24.4

12.7

Z Scorpio 1600 21 est 9.8 -

15 57 -21.3

15 8

49 E

0 50 E

15 9

-21.3

12.10

X Scorpio 1602 21 est 12.5 -

15 59 -21.0

15 10

49 E

0 49 E

15 12

-21.2

May 3, 1908

8065

12 12

W Scorpii 160519 γ 5 N ✓
 16 3 -19.8
15 13
 50 E

0 57 E
 15 14
 -19.8

12 13

R Scorpii 161122e est = 13.3 ✓
 16 8 -22.6
15 14
 54 E

S Scorpii = 14.2 ✓

0 55 E
 15 15
 -22.4

12 16

V Ophiuchi 162112 est 18.5 ✓
 16 19 -12.0
15 17
 7 2 E

var quite red

1 2 E
 15 18
 -12.1

12 19

γ Scorpii 162319 est 11.8 ✓
 16 21 -18.3
15 19
 1 2 E

new var near γ ✓
35.27

1 0 E
 15 21
 -19.1

12 22

T Ophiuchi 162815 est 10.4 ✓
 16 24 -15.6
15 23
 1 1 E

1 2 E
 15 24
 -15.7

May 3, 1908

8065.1

12 24

S Ophiuchi

162816S 5 var
= 13.5 \pm

16 26 -16.9

15 25

1 1 E

1 1 E

15 26

-16.9

12 26

R R Ophiuchi 164319est 11.8 \checkmark

16 40 -19.0

15 27

1 13 E

1 13 E

15 28

-19.1

12 28

R Ophiuchi 170215est 12.5 \checkmark

16 58 -16.2

15 29

1 29 E

1 30 E

15 30

-15.8

12 31

U Serpens 160210

est 8.4 \checkmark

16 1 +10.2

15 32

29 E

0 27 E

15 33

+10.2

12 33

U Hercules 162119est 11.0 \checkmark

16 16 +19.5

15 34

42 E

0 44 E

15 35

+19.3

May 3, 1908

80.65

12 35

SS Hercules 16 28 07 est 11.8 ✓

$$\begin{array}{r} 16\ 26\ +7.0 \\ 15\ 36 \\ \hline 50\ E \end{array}$$

$$\begin{array}{r} 0\ 49\ E \\ 15\ 37 \\ +7.2 \end{array}$$

12 37

W Hercules 16 31 37 est 13.8 ✓

$$\begin{array}{r} 16\ 30\ +37.3 \\ 15\ 38 \\ \hline 52\ E \end{array}$$

$$\begin{array}{r} 0\ 52\ E \\ 15\ 29 \\ +37.8 \end{array}$$

12 39

S Hercules 16 47 15 est 12.0 ✓

$$\begin{array}{r} 16\ 46\ +15.2 \\ 15\ 40 \\ \hline 1\ 6\ E \end{array}$$

$$\begin{array}{r} 1\ 5\ E \\ 15\ 41 \\ +15.3 \end{array}$$

12 41

RV Hercules 16 56 31 est 11.0 ✓

$$\begin{array}{r} 16\ 55\ +31.1 \\ 15\ 42 \\ \hline 1\ 13\ E \end{array}$$

$$\begin{array}{r} 1\ 12\ E \\ 15\ 43 \\ +31.4 \end{array}$$

12 58

RT Hercules 17 06 27 est 12.0 ✓

$$\begin{array}{r} 17\ 4\ +27.3 \\ 15\ 58 \\ \hline 1\ 6\ E \end{array}$$

$$\begin{array}{r} 1\ 5\ E \\ 16\ 0 \\ +27.3 \end{array}$$

8065 1

May 3, 1908

13 0

2 Ophiuchi 171401

est 13.5 ✓

17 14 +1.6

16 1

1 13 E

1 11 E

16 2

+1.8

13 2

RS Hercules 171723

est 11.7 ✓

17 18 +230

16 2

1 15 E

1 12 E

16 4

+233

13 4

R U Ophiuchi 172809

est 13.0 ✓

17 28 +9.6

16 5

1 23 E

1 20 E

16 6

+9.8

13 57

RS Ophiuchi 174406

~~est~~ est 11.2 ✓

17 43 -6.8

16 7

1 36 E

0 44 E

~~+4.2 E~~

16 59

~~16 8~~

-6.6

~~+11.5~~~~13 6~~

17 43

16 57

46 E

RT Ophiuchi 175711

var < 13.0 ✓

17 57 +11.0

16 7

1 44 E

1 42 E

16 8

+11.3

13 6

May 3, 1908

8065

13 10 T Hercules 180531 est 8.8 ✓
 18 2 +30.5
 16 10
 1 52 E
 1 52 E
 +31.0

13 12 RY Ophiuchi 181103 est 11.8 ✓
 18 7 +3.6
 16 13
 1 54 E
 1 56 E
 16 14
 +3.8

13 18 W Lyrae 181136 est 12.0 ✓
 18 8 +36.5
 16 16
 1 52 E
 1 50 E
 16 20
 +36.8

13 20 JV Hercules 182224 est 0.6 var. ✓
 18 22 +24.6
 16 21
 2 1 E
 var very faint
 1 59 E
 16 22
 +25.2

13 26 RZ Hercules 183225 est 3.2 m ✓
 18 31 +26.0
 16 23
 2 8 E
 2 3 E
 16 28
 +26.2

May 3. 1908

13 28

R V Lyrae 184434

< 14.2 ✓

18 40 +34.4

16 29

2 11 E

2 9 E

16 30

+34.7

13 32

R W Lyrae 184243

< 14.0 ✓

18 40 +43.3

16 32

2 8 E

2 7 E

16 34

+43.6

13 36

R X Lyrae 185032

< 14.0 ✓

18 48 +32.8

16 35

2 13 E

2 10 E

16 38

+32.9

13 41

Z Lyrae 185634

actual 13.4 ✓

18 54 +34.6

16 29

2 15 E

2 12 E

16 43

+34.8

13 43

R T Lyrae 185737

en 13.6 ✓

18 57 +37.6

16 44

2 13 E

2 11 E

16 45

+37.6

May 3, 1908

8065

13 45 V Lyrae 190529 est 14.0 ✓
 19 3 +29.6
 16 46
 2 17 E
 2 17 E
 16 47
 +29.6

13 48 S Lyrae 190925 S 3 van ✓
 19 8 +25.5 van verflint
 16 48 baregeen
 2 20 E
 2 17 E
 16 50
 +26.1

13 51 RS Lyrae 190933 est 14.3 ✓
 19 7 +33.0
 16 51
 2 16 E
 2 15 E
 16 53
 +33.3

13 54 RU Lyrae 190941 est < 14.0 N ✓
 19 10 +41.0
 16 54
 2 16 E
 2 12 E
 16 56
 +41.2

13 57 T Serpens 182306 est 12.0 ✓
 14 0 18 21 +6.1
 17.0
 1 21 E
 1 20 E
 17 2
 +6.4

8065 1

May 3, 1908

14 2

X Ophiuchi 183308 est 17.0 ✓
 18 33 +8.8
17 3
 1 30 E

1 27 E
 17 4
 +8.9

14 4

R Aquilae 190108 est 11.9 ✓
 19 0 +8.0
17 6
 1 54 E

1 53 E
 17 6
 +8.5

14 22

T Z Cygni 191350 est 11.0 ✓
 19 12 +49.9
17 20
 1 52 E

1 48 E
 17 24
 +50.1

14 24

U Lyrae 191637 est 12.0 ✓
 19 17 +37.6
17 25
 1 52 E

1 49 E
 17 26
 +39.8

14 28

T Y Cygni 192928 est 13.5 ✓
 19 28 +28.2
17 28
 2 0 E

1 58 E
 17 30
 +28.3

May 3, 1908

8065

14 31 R Cygni 193449 est 11.0 ✓
 19 33 +49.8
 17 32
 2 1 E
 2 0 E
 17 33
 +49.8

14 33 X Cygni 194632 est 4.8 ✓
 +9 45 +32.5
 17 34
 2 11 E
 object really too bright
 for this telescope
 2 10 E
 17 35
 +32.8

14 36 Z Cygni 195849 x 3.2 y ✓
 19 57 +49.6
 17 37
 2 20 E
 2 19 E
 17 38
 +49.8

14 42 ST Sagittarii 185512 est 12.8
 18 51 -12.0
 17 41
 1 10 E
 1 10 E
 17 44
 -12.8

14 45 B Wagnese 191007 est 8.6
 19 7 -7.4
 17 46
 1 21 E
 1 21 E
 17 47
 -7.1

8065.1

May 3, 1908

T Sagittarii 191017

est 9.0 ✓

19 09 -17.4

17 48

1 21 E

1 18 E

17 50

-17.1

14 48

R Sagittarii 191019

est 9.7 ✓

19 9 -19.2

17 52

1 17 E

4 16 E

17 53

-19.4

14 51

R W Sagittarii 190819

est 9.5 ✓

1 12 E

17 55

-19.0

14 53

R X Sagittarii 190818

est 8.9 ✓

1 11 E

17 56

-18.8

14 54

S Sagittarii 191319

est < 14.0 ✓

1 13 E

17 58

-18.9

14 56

May 3, 1908

8065

15 1 Z Sagittarii 191321 $\text{err } 13.5 \checkmark$
 19 11 -21.2 1 7 E
 18 0 18 3
 1 11 E -20.9

15 4 T Sagittae 191717 $\text{err } 8.9 \checkmark$
 19 16 +17.5 1 10 E
 18 4 18 6
 1 12 E +17.7

15 6 R T Aquilae 193311 $\text{err } 8.6 \checkmark$
 19 30 +11.0 1 23 E
 18 7 18 8
 1 23 E +11.6

15 8 RV Aquilae 193509 $\text{err } 3.2 \checkmark$
 19 34 +9.5 1 24 E
 18 9 18 10
 1 25 E +10.2

15 11 X Aquilae 194604 $\text{at least } < 13.5 \checkmark$
 19 46 +10.0 1 32 E
 18 11 18 13
 1 35 E +10.4

218

8065.1

May 3, 1908

R V Sagitt 191033

est 7.0 ✓

19 8 -33.7

$$\begin{array}{r} 18\ 20 \\ \hline 48\ E \end{array}$$

6 46 E

18 22

-33.5

15 20

SS Cygni 213843

est 9.7 ✓

21 37 +42.6

$$\begin{array}{r} 18\ 15 \\ \hline 3\ 22\ E \end{array}$$

3 19 E

18 19

+42.2

15 17

R R Aquilae 195202

est 9.3 ✓

19 51 -2.6

$$\begin{array}{r} 18\ 23 \\ \hline 1\ 28\ E \end{array}$$

1 27 E

18 24

-2.0

15 22

R S Aquilae 195308

est 12.9 ✓

19 52 -8.5

$$\begin{array}{r} 18\ 25 \\ \hline 1\ 27\ E \end{array}$$

1 25 E

18 27

-8.0

15 25

~~R Capricorn S Aquilae 200715a~~~~200715a~~7³₈11²₁₉

R.P.P.

This book all lodged
to date.

02-3-9.

L.C. DB.

1907phae.proj..671C