KG
11369
639

12" Polar

Telescope

RECORD

Nov 2 1916

KG 11365.639

1 2 2
21 3 8 0
0
23

KG 11365.639

HARVARD
UNIVERSITY
LIBRARY
JUL 2 1956

Tues. Nov. 21-1916

12" Polar

S S Cygni 213843

7 17	est	11.3	L.C. Obs
7 52	est	11.4	F.E.B. Obs

1 - 73 C
1 - 35 β

Wed. Nov. 22 – 1916

G. F. Nolte Obs. 12" Polar

6 00	S S Cygni	213843	est 11.2		R = 2
6 10	Z aquilae	200906	est 10.5		R = 0
615	S Delphini	203816	est 9.0		R = 4
625	V Cygni	203847	est 9.6		R = 10
6 35	ST Cygni	202954	est 11.8		R = 2
6 45	U Lyrae	191637	est 10.8		R = 4
6. 50	Z Cygni	195849	est 11.2		R = 0
6. 55	S Cygni	200357	est 10.5		R = 4
7 28	S S Cygni	213843	est 11.1	L C Obs	
	—	—	— 11.2	F. E. B. Obs.	
8 20	—	—	— 11.3	F. L. D. Obs	
11 40	R Geminorum	070122a	est 8.4	G. F. Nolte obs.	R - 2
11 45	R Geminorum	"	8.0	F. L. D. Obs.	4
12 00	TW Geminorum	"	8.3	G. F. Nolte	R = 2
12 00	TW Geminorum	"	8,3	F. L. D.	R - 0
12 10	Z Geminorum	"	12.2	G. F. Nolte	
12 15	Z "	"	12.4	F. L. D.	R – –

1 – 7^3 c
1 – 35 B

N
Dr

Fri. Nov. 24 – 1916

12" Polar

6 30 SS Cygni 213843 est 8.5 R=2 L.C.Obs.

7 52 Too cloudy to continue

9 00 S.S. Cygni 213843 sui 8.6 F.E.B.

1 – 74 C
1 – 36 B

Sat Nov. 25 – 1916

at 12" Polar

6 55 SS Cygni 213843 est 8.4 P.C. Obs

1 -75 C
– -36 B

Sun. Nov. 26-1916

A.C. Obs. 12" Polar 75B Rec. ~~Obs.~~

5 — 45 SS Cygni 213843 est 8.4 R=2

21192 ✓ S Aquarii 22 51 20 est. 11.8 R —

S Aquilae 20 07 15 est. 11.0 R: 6 ✓

R Delphini 20 10 08 est 11.8^3 R=2 ✓

W X Cygni 20 14 37 est 9.8 R=7 ✓

R Vulpec. 20 59 23 est. 12.4 R —

X Pegasi 21 16 14 est 12.3 R —

S Lacertae 22 24 39 est. 9.0 R 3 ✓

R Lacertae 22 38 41 est. 10.8 R: 2 ✓

W Pegasi 23 14 25 est 12.5 R =

ST Andr. 23 33 35 est. 9.5 R=4 ✓

R Cass. 23 53 50 est 11.5 R=6 ✓

U Androm 01 09 40 est R

X Cygni 19 46 32 est 10.8 R=5 ✓

X Delphin 20 50 17 est > 12.8

Nov 26 1916

7 35 R Equulei 210812 see 12.7

SS Cygni see 8.7 F.E.B.

R.R Pegasi 214024 see 13.0

V Pegasi 215605 see 10.0 R=3

RT Pegasi 215934 see 10.6 R=2 ✓

8 00 RV Pegasi 222129 see $> 1\overset{2}{4}.9$

V Cass. 230759 see 10.5 R=6 ✓

Z Androm. 232848 see 9.8 R=4

RR Cass. 235053 see 13.0

V Ceti 235209 ———

Z Pegasi 235525 see 9.0 R=5 ✓

26 – 101 C

1 – 37 B

RW Androm 004132 see 10.8 R=2 ✓

U Cass. 004047 see 13.1

V Androm. 004435 see 13.1

RV Cass. 004746 see ———

FEB

Mon. Nov. 27 1916

S.S. Cygni 12in Polar

7 30	est	8.8	T.E.B.
	est	8.5	L.C.
	est	8.7	A.B.B.
8 30	est	8.8	J.F. Nolte

Reap. Jup. I
12"

E.C.P. Ob.

Ellery
9 50 0 9 54 60
13 17 subtracted
13 ~~18~~ 19 sum
13 35 seen

9h 12m 33s Eastern time
E.C.P. obs A.H.S. rec.

Ek ~~19~~
9 17 00 9 17 46 0

Reap Jup. I
6" W Eq. J.F. Nolte Ob

Sus 9-12-24
Seen 9-12-28
Watch error 7s slow.

∴ Susp. (corr. time) = 9-12-31
Seen " " = 9-12-35

L. to here.

Fri Dec. 1-1916

~~15" E. Eq.~~
12" Polar

5 48 S S Cygni 213843 est 10.8
clear here, but clds
are approaching. L.C.Olc

7 10 S.S. 213843 est. 10.7 F.E.B.

7 40 Father Rodés make the est. of
S.S. Cygni a little brighter
than 10.9 impossible to
make accurate est. due to
clouds.

~~0 4~~4~~~~
~~2 49~~
~~9~~

~~2 49~~
~~0 40~~
~~2 9~~

2 00
0 40
1 20 E.

o Ceti 2 14 - ~~8~~3.6
0 44
1 30 E

observed dec. -2.0

Dec. 1 1916

12 in Polar

L. C. Obs. Experimented with Phot on 12"

o Ceti

Phot. R.

Index above

F. E. B.

Rec.

9 6 15

350.8	9.4	< Var. dis.	
360.2	9.0		
170.4	18.4	−5.47	
179.4			

Index below

81.2	8.2		
89.4	8.6		
259.8	16.8	−5.67	
268.4			

			~~16.8~~
			~~18.4~~
80.2			~~17.9~~
90.4	10.2		5.465
258.9	10.3		5.685
269.2	20.5	−5.24	−5.575
			9.190
			3.615

Index above.

351.4	7.8		
359.2	7.3		
170.7	15.1		
178.0? Clouds		−5.90	

9 13 15

Troubled by clds in last set

18.4
15.1
33.5
16.8

Dec. 1st 1916

R An Andromedae 00 18 38
2 20
2 2~~8~~ W

9 55 L.C. 11.5 est
Father Rodés obs. 11.7 slightly fainter than 11.6

R. Arietis 02 10 24
2 5~~0~~^{2}
0 49^2 W

10.10 est 11.6 ~~W~~ L.C obs.
Father Rodés < 11.2 probably by 1/2 magn ±.

Sat. Dec. 2, 1916

12" Polar

8 23 SS Cygni 213843 est 10.8 L.C. Ob

Tues. Dec. 5 = 1916

12" Polar

7 28 SS Cyg. 213843 est 11.5 L.C. Obs.

Obs. difficult on acct of haze & moon

Wednesday Dec. 6, 1916

Reap. of Jupiter I

5 = Not see thick clouds. Jupiter faintly visible
E.C.P. Obs.

5 50 SS Cyg. 213843 est 11.3 LC
est 11.2 DEW.

Thurs. Dec. 7 – 1916

12" Polar

6 40 SS Cygni 213843. est 11.4 L.C.

Reaps. of Jupiter II ~~21~~

8.54 not confirmed

8 51 seen.

8 52 seen

2 inch eyepiece.

Assumed

$8^h\ 5^m8\ 4$

8 56 0

8 56 2

Watch Elmgrin

$8^h\ 59^m\ 51^s$ $9^h\ 00^m\ 00^s$

Concluded time 8 56 11 sec E.C.P. obs.

$$\frac{8\ 58\ 12}{2\ 1}$$

$-121^s = O-C.$

Dec. 7 1916

L.C.Obs. o Ceti Phot. Ron
12" Polar

Fer. B. Rec. P.A. Index above

9.44 10 351.4 < Var dir
359.8 8.4
171.8 9.4
181.2 17.8 — 5.54

P.A. Ind. below

262.2
271.1 8.9 ✓
81.4 8.4 ✓
89.8 17.3 ✓ — 5.61

— 5.43
— 5.48
— 5.455
9.19
3.74

260.4
268.9 8.5 ✓
80.0 11.0 ✓
91.0 19.5 ✓ — 5.35

P.A. Index above.

170.4
179.9 9.5 ✓
351.2 10.2 ✓
9 58.40 361.4 19.7 ✓ — 5.32

9 47 25

18.1

Fri Dec. 8 – 1916

12" Polar

7 10 21343 55 Cyg. set 11.4 P.C.

O Calc

9 4 30 357.2 10.0 Index above

361.2 8.8

171.4 18.8

180.2

P.A. below (Index)

~~261.2~~

81.1 8.3

89.4

9. 10 {Impossible to continue
{image of comp. * very
{faint.

Dec. 8 1916

~~Father~~ Expec. * = 27 Tauri or Dm + 23° 557 (380)

Fr. Rodes. Obs. Index below J.E.B. Rec.

9 50 30 ~~343.8~~
166.8
186.8 20.0
> ~~191.~~ 30.0
338.2 50.0 + 3.27
368.2

Index above

70.5
> 99.6 29.1
251.8 30.0
281.8 59.1 + 2.89
56.2
56.4 +3.02
56.3 + 3.00
73.2 28.6 + 3.01
> 101.8 25.0 3.80
252.8 53.6 + 3.11 + 6.81
277.8

Index below.

344.9
12.1 27.2
160.0 35.1
10 15 00 195.1 62.3 + 2.77

H.a. 0 3 W
Decl. + 24.9
S.T. 3 42

3:45 + 24.0

Dec. 8th 1916

	L.C. Obs.	Super. *		J.S.B. Rec.
		Index below		
10 17 00	164.2			
	187.1	22.9		
	247.2	17.3		
	364.5	40.2	+ 376	
		Index above		
	77.1	19.8		
	96.9	22.2		
	255.0	42.0	+ 366	
	277.2			
			470	+ 3.44
			44.8	+ 3.52
			45.9	+ 3.48
	72.9	27.2		3.80
	100.1	20.5		7.28
	255.5	47.7	+ 338	6.81
	276.0		Mean magn	7.04
		Index below		
	341.6	26.1		
	367.7	27.6		
	160.4	53.7	+ 311	
10 25 00	188.0			

Wed. Dec 13 - 1916

12" Blan

21211

5 53	SS Cyg.	213843	est	11.4	R = 1 ✓	L.C. Obs.
6 00	SS Cygni		est	11.4		G.F. Nolte obs
6 25	R Ceti	022000	est	7.8	R = 6 ✓	"
6 35	R Pegasi	230110	est	9.2	R = 6 ✓	"
6 50	W Cass	004958	est	11.2	R = 4 ✓	"
7 00	RR Androm	004533	est	12.3		"

Reappearance of Jupiter I

7 - 33 - 5 suspected } watch time
7 - 33 - 11 seen }

Error of watch: 9s fast.

Corrected time: 7 - 32 - 56 suspected
7 - 33 - 2 seen G.F. Nolte obs.

8.20	RW Androm	004132	est	11.5		G.F. Nolte, obs.
8 30	R Androm	001838	est	11.7		"
8 45	T Cass.	001755	est	11.7	R = 4 ✓	"
8 55	T Orionis	053005	est	9.7	R = 0 ✓	"
9 00	SU Tauri	054319	est	<12.0		"

Thurs. Dec. 14th 1916

12" Polar

5-48 SS Cyg. 213843 est 11.5 L.Cb.

Sat. Dec 16 – 1914

12" Polar

6 18 SS Cygni 213843 est 11.6 LCOb.

9.30 S Ceti 001909 estimate <10.5 Ducharme.
10.15 S Orionis 052404 " 8,3 mag. "

10 43 SS Aurigae 060547 est 10.9 L.C.
– 11.0 Du.

S Can Min. 072708
4 38
2 49 2 + 9.5

est 7.8 L.C.
11 00 est 7.8 Du.

1 3 114 C
1 37 B
1 1 I.E.W.

Mon Dec 18 - 1916

12" Polar

9 35 Y Persei 032043 est 8.8 L. C. Ell.

Nova Persei 032343 ~~est~~
looked for Barnard's Nebulosity but
too cldy to do anything in this region

SS Aurigae 060547
9 45 Var just barely seen = 10.9

Tues Dec. 19-1916

21217

12" Polar   L.C.Obs

7 37 SS Cygni 213843 est 11.8 L.C.Obs.

7 42 SS Aurigae 060547 est 11.6 L.C.Obs.

T Cass 001755 est 11.7 R = 3 ✓

01 52
1 35

U Cass 004047 est 13.0 very faint.

V And 004435 est <12.8 if seen

01 56
1 12w

RR And 004533 est 12.8

RV Cass 004746 est 12.7

W Cass 004958 est 11.8 R=5 ✓

Z Ceti 010102 est 11.4

U And 010940 est 10.6 R=3 ✓

UZ And 011041 est 13.0 if seen

S Pisc 011208 est <11.8 clds?

RZ Persei 012350 est <12.6

R Pisc 012502 est 8.8 R=6 ✓

Dec. 19 - 1916

RU And	013238	est 10.4	R = 3 ✓
Y And	013338	est 9 3	R = 4 ✓
U Persei	015354	est 7 8	R = 5
R Arietis	021024	est 12.6	Diff.
W And	021143	est < 12.5	
S Persei	021558	est 9.6	R = 7 ✓
R Ceti	022000	est 7 8	R = 4 ✓
RR Persei	022150	est 11.4	R = 5 ✓
U Ceti	022813	est 8 3	R = 4 ✓
R Trianguli	023133	est 6 5	R = 5 ✓
W Persei	024356	Est 10.5	R = 6 ✓
X Ceti	031401	est 9.6	R = 4 ✓
R Persei	032335	est 8 8	R = 3 ✓
W Tauri	042215	est 9.8	R = 4 ✓

02 48
1 34

Dec. 19th 1916

7.E.B Ric.

T Tauri 041619 sec. 10.5 R = 4 ✓

V Tauri 044617 sec. 10.5 R = 4 ✓

9.00 R Leporis 045514 sec. 8.2 R = 9 ✓

RX Tauri 043208 sec. 11.8

R Orionis 045307 sec. < 12.0

V Orionis 050003 sec. 12.8

R Aurigae 050953 sec 11.8 R = 5 ✓

o Ceti 021403

I.

Phot R regular nicol eyepiece.

P.A. above

9 32 10 194.4 ∠ var dir

206.3 11.9

11.2 16.0

27.2 27.9 −4.56

P.A. below

101.2 18.5 4645

119.7 10.4 4.710

284.4 28.9 −4.48 9355

294.8 ~~D7~~ 4.678

5.15

451

Dec. 19th 1916

o Ceti

	104.0	12.6	
	116.6	10.9	
	284.0	23.5	-494
	294.9		

P.A. above

	12.1		
	26.6	14.5	
	195.2	11.4	
9 39 45	206.6	25.9	-473

Phot R. with eyepiece & nicol of Phot T ~~thereon~~.

see next page

Dec. 19th 1916

o Ceti

P.A. above

~~III~~ I

9 41 50 163.8

175.0 11.2

338.2 16.2

354.4 27.4 - 4.60

Images very dim

P.A. below

65.3

85.1 19.8

255.8 5.6

261.4 25.4 - 477

- 4.84

- 484

68.0 4.84

85.2 17.2 9.19

254.8 6.6 - 4.91 4.35

261.4 23.8

P.A. above

~~308.4~~

164.4 8.8

173.2 13.1

339.7 21.9 - 5.09

9 53 30 352.8

Images barely seen

Dec. 1~~6~~9th 1916

Phot R.

O Cell. with eye piece and mica of Phot T

P.A. above

10 02 10	161.8			
	176.3	14.5		
	339.8	14.6	} images very faint	
	354.4	29.1		
			4.47	

P.A. below

	254.0			
	262.8	8.8		
	66.2	20.6		
	86.8	29.4	4.45	
				4700
				4.475
	254.4			9.175
	262.9	8.5		−4.572
	66.8	20.2		9.198
	87.0	28.7	4.50	4.62

P.A. above

	162.4		
	1~~1~~73.3	10.9	
	340.2	12.8	
10 11 05	353.0	23.7	4.92

Dec. 1~~8~~9 1916

O Ceti

P.G. above with regular eye piece

10 12 10	356.4	~~2~~14.5		
	10.9	9.4		
	179.8	23.9	4.90	
	189.2			

P.G. below

	270.2	9.0		
	279.2	14.0		
	87.4		4.98	
	101.4	23.0		
				4.85
				5.00
	269.2	9.6		— 4.92
	278.8	13.0		919
	88.2	22.6	5.02	4.27
	101.2			

P.G. above

	179.8		
	191.4	11.6	
	359.0	13.4	
10 19 00	12.4	25.0	4.80

Dec. 19 1916

		P.A. above		Photo R with regular eye piece and nicol
10 32 10	178.8			
	190.2	11.4		
	356.1	13.9		
	12.0	27.3	4.61	
		P.A. below		
	86.4			
	161.9	15.5		
	269.4	9.9		
	279.3	25.4	4.77	
				4.60
				4.76
	87.4			-4.68
	102.8	15.4		9.19
	268.8	10.2		4.51
	279.0	25.6	4.75	4.27
				4.51
		P.A. above		129
	358.0	16.6		4.43
	14.6	10.8		
	180.4			
10 38 40	191.2	27.4	4.60	

Dec. 1$\overset{9}{6}$ 1916

U Gemin. 074922 m. < 12.5

Fri Dec. 22-1916

12" Polar

S S. Cygni 213843

8 45 est 8.8 L.C. Obs
seen thru gaps in clds

8 48 est 8.7 A.B.B. Obs

9 00 Too cldy for further obs

9 20 Too cldy

Sat. Dec 23-1916

LCEb   12' Polar

SS Cygni 213843

6 10   est 8.6   R = 2

6 12 —   o Ceti 021403 eye est 4.1; R = 6

Mon Dec. 25 – 1916

Merry Xmas

LCOb 12" Polar

5 45 SS Cygni 8.8 Seeing poor.

Thurs. Dec 28–1916

12" Polar

5h35 H.C.Obs SS Cygni est 9.5 213843

I did not use the 9.6 comp. but used the 9.4 & 10.3 instead.

Fri Dec 29 - 1916

12" Polar

6	30	SS Cygni	213843	est 9.5	L.C. Ob.
6	39	—	—	est 9.9	F.E.B. Ob.
6	38	SS Cyg.	213843	est 9.8	L.C. Obs
8	25	χ Ceti	031401	est 11.3	σ = 3
		S U Tauri	054319	est 10.6	σ = 4
		U Gem.	074922	est. < 13.0	

Dec. 29 1916

J.C. Obs. o Ceti 021403 Phot R. T.S.B. Rec.

Ind. R. Below

8 49	213.6		
	226.4	12.8	
	34.8	10.2	
	45.0	23.0	−4.98

Ind. L. Above

	124.8		
	135.4	10.6	
	304.7	11.9	
	316.6	22.5	−5.03

			5.220
	123.0		−4.895
			10.115
	137.2	14.2	−5.06
	305.5	11.3	
	316.8	25.5 −4.76	9.19
			4.13

Ind. R. Below

	35.8		
	43.4	7.6	
	212.7	10.9	
8 56	226.6	18.5	−5.46

Sat. Dec ~~29~~ 30 -1916

12" Polar

5 55 SS Cygni 213843 est 11.0 LCClz.

8 40 SU Tauri 054319 est 10.2 LC.

8 40 SU Tauri 054319 est. 10.0 Du
9 10 X Ceti 031401 est. 10.8 Du

9 40 S Orionis 05244 est. 7.5 Du

T Cancri 072811
est 11.7 LC.
10 55 est 11.9 Du

U Gem 074922
11 02 < 12.7 LC.

Tues Jan 2, 1917

21231

12" Polar

5 43 SS Cygni 213843 est 11.8 L.C. Obs. ✓

Saturday Jan 6 - 1917

12" Polar

6 - 20	S S Cygni	213843	est	11.6	Burbeck
6 - 45	S Y Androm	000843	"	10.6	Burbeck ✓
6 - 10	S S Cyg.	213843	est	11.7	L C
7 - 20	V Androm	010940	est	11.8	Burbeck
7 - 21	"	"	"	11.4	Ducharme
8 - 15	T Orionis	053005	"	10.1	Burbeck ✓
8 - 17	"	"	"	10.2 R=3	L C. ✓
8 - 30	"	"	"	10,2	Du,
8 - 50	S Orionis	052404	"	7.9	Burbeck
8 - 50	"	"	"	7,8	Du,
9 - 3	SS Aurigae	060547	"	<10.8	Burbeck
9 - 15	"	"	"	<10,8	Du

Thurs. Jan. 11, 1917

L.C. Obs, 12" Polar

✓

6 20 SS Cyg. 213843 est 11.5 clear cold.

11 00 U Gemin. 074922 seeing very bad
certainly < 11th mag. ✓

Fri. Jan. 12, 1917

12" Polar

6 00 SS Cygni 213843 est 11.5 L.Ch.

8 5 T Orionis 053005 est. 10.2 Rodés ✓

8 13 — — — — 10.1 L.C. ✓

9 15 R Geminorum 070122 = 9.0 L.C. ✓

10 17 — — — — 8.8 Rodés ✓

10 20 ζ Gemini 076722 est 9.6 L.C. ✓

11 00 U Geminorum 074922 9.0 Rodés ✓

— — — 9.3 L.C. ✓

9 45' 4" Reap. Jup. I. Rodés

9 45 4
− 2 error of watch

9 45 02

U Gem.

The 9.0 appears slightly fainter than the 9.3 according to Mr. Rodés & L.C. = 9.4

Look up in catalogue

5 am Jan 14 1917

12" Polar

L.C. Obs.

8 17 U Gemin 074922 est 9.4 ✓

SU Tauri 054319 est 10.3 ✓

+20.0 = Dec

8 20 Ha. 1:33 E ST = 4 10

8 30 SS Cygni 213843 est 11.8 (in 6" W. Eq) ✓

8 ~~38~~ SS Aurigae 060547 est <12.9 (12") ✓

Jan 15th 1917

S U Tauri 054319 ✓

78 52 est 10.3 Obs. through haze ~~otherwise~~ but consider good

U Gemin. 074922 ✓

8 02 as seen through gap in clouds should est. var. as 9.15

8 05 Cloudy in region.

9 00 Too Cloudy to continue.

Tues January 16, 1917

~~LC~~

12" Polar Telescope

7 00 T Orionis 05 3005a est 9.8 ✓

7 02 SU Tauri 054319 est 10.3 ✓

7 04 U Gem 074922 est 11.4 ✓

7 20 o Ceti 021403 eye est 4.7 ✓

<12.8

Fri. Jan 19 1917

6" W. Eq

SS Cygni 213843

>28 est 11.8 LC

est 11.9 ABB

12" Polar

R=4

SU Tauri 054319 est 10.3 LC

- 9.8 ABB

7 55 U. Gem. 074922 L.C.

8 05 est <12.8

<12.3 Bu.

8.00 S S Aurig 06547

<12.4 L.C.

X Aurig. 06045 Bu

est 12.5 L.C.

R Gem. 070122a

est 9.5 L.C.

9.4 Bu.

T W Gem. 070122b

slai k.

est 8.2 Bu

8.1 L.C.

Z Gem. est 12.5 L.C

Jan. 19 1917

R Leporis 045514

8 30 est 7.7 LC Ob R = 9
est 7.2 ABB
est 7.6 Brasch.

R Leonis 094211
est 9.3 LC. R = 8
est 8.8 ABB.
est 8.8 Brasch

R Leo Min 093934
est 8.2 LC. Ob R = 5
" 8.3 ABB Ob

R. R Monoc. 071201

set. < 12.7
The discordance 8.9 = 8.4

R Can Min. 070310
set 9.9 R = 4

V Gem. 071713
set 10.4 R. = 4

Jan 19th 1917

S Can Min. 072708 ✓
9. 10 set 8.4 R = 4

2 Puppis 072820 ✓
set 9.4 R = 4

U Can Min 0370508 ✓
set 9.8 R = 3

S Gem 073723
set 11.7 clouds near region.

9 25 Considerable clouds in sky
to continue with advantage

21202

Tues Jan. 23, 1917.

F. F. Nolte obs.

6 00	SS Cygni	213843	est. 11.6	
	X Androm	001046	11.0	R=2 ✓
	T Cass	001755	10.2	R=6 ✓
	R Androm	001838	12.1	

SS Cygni 213843 6" W Eq.

6 40 est 11.8 L.C.

8 15 X ceti 031401 Est. less than 12.1 Rodé

04 0x

0 50

−1.4

8h 20	T Orionis	053005	Est. 10.1	Rodés
	S "	052404	8.1	"
	U aurigae	053531	11.1	"
9. 30	S aurigae	052034	10.5	"
	R Gemini	070122	9.0	"
	R Persei	032335	10.4	"

1916phae.proj..64OC

Fri Jan. 26, 1917

12" Polar

SU Tauri 054319 L.C. Obs.

6 54 est 10.3
L.V. tonight here = 12.0
Moon not far away & nearing
1st Quarter.

R Gemini 070122a

7 15 est 9.5 L.C.
est 9.3 Rodés

S Aurigae 053024

7 40 9.5 L.C.
9.3 Rodés

Algol Var for Fr. Rodés

SU Tauri 054319
7 52 est 9.9 Rodés
R Persei 032325 10.8 est. P. Rodés
S Aurigae 053024 9.7 "
S Orionis 052404 est 8.3 Rodés
8 30 X Orionis 053005 est. 10.3 Rodés
U Aurigae 053531 est 11.3 Rodés

Tues. Jan. 30, 1917 *
~~Mon. Jan. 29, 1917~~

G. F. Nolte obs.

6 20	SS Cygni	213843	est. 10.0	R = 4
	RW Androm	004132	< 12.3	
	W Cass	004958	est 12.2	
	X Cass	014958	est. 12.0	
	RX Tauri	043208	< 12.0	
7 30	RU Androm	013238	est. 9.7	R = 4 ✓
	Y Androm	013338	est. 10.0	R = 6 ✓
	U Ceti	022813	est. 9.8 ?	
	S Orionis	052405	est 8.5	R = 8 ✓

These obs. were made on Jan 30th not Jan 29th The ~~latter date~~ 29th was thickly cloudy & the rise to max of SS Cygni was caught on Jan 30th 1917 by Crane, Burbeck Miss Woods & Nolte.

Feb. 19. 1917 L.C.

Date should be Jan. 30. G. F. Nolte

Fri February 2, 1917

Algol Var.

for next Friday

No observations made by Fr. Rodés because the moon ~~was~~ too bright.

Sun. Feb. 11, 1917

12" Polar

8 03 SU Tauri 054319

est. 9.8

Mon Feb. 12 1917

12" Polar

SS Aurigae 060547

9 10 est 10.5 L.C. Obs
9 12 est 10.6 F.E.B. Obs

RX Tauri 043208
9 45 see 12.8 L.C. Obs

R Leporis 045514
see.

Telescope mvmt too hard in Dec'l to be able to use it readily ~~tonight~~

Too Cold

Wed. Feb 14, 1917

12" Polar

L.C. Obs.

SS Aurigae 060547
6 40 est 10.5 R=0 ✓

SU Tauri 054319
6 44 est 9.5 R=4 /

UZ Androm 011041

Var = 98
6 50 o 11.5 near var = 11.5 i.e. ½ magn
< than m 11.0 certainly not 10.5 magn

> 00 o Ceti 021403 est 5.5 H.G.

X Androm 001046 est 10.2

U Androm 010940 est 12.6 Very diff
barely seen in haze

S Pisc 011208 est 10.2
05 02
3 50 + 9.4

U Pisc 011712 est 11.6 diff
05 07
3 50 + 13 3

R Pisc 012502 est 11.5
05 09
3 44W +34

Feb. 14, 1917

RU And 013238 est. 10.3 / R = 2 ✓
05 12
34° W + 39.2

Y And 013338 est 10.2 R = 3 ✓

U Persei 015354 est. 8.4 R = 4 ✓

R Arietis 021024 est. 9.8 R —

W. Androm. 021143a est. 10.2 R = 2 ✓

R Triangl. 023133 est. 9.3 R = 5 ✓

W Persei 024356 est 9.0 R = 3 ✓

U Arietis 030514 est. Clouds

8 10 Too cloudy to continue for the present.

Feb. 16th 1917

12" Polar

L. C. Ob. J.E.B. Rec.

7.58 SS Aurigae 0605-47 LC
est. 10.6 R = 1 ✓

8.00 SU Tauri 054319 LC
est 9.7 R = 2 ✓

8.02 U Gem 074922 LC
est. <11.5 R = —

Y Persei 032043 est f. 2 LC
est. R = 2
est — 8.3 Rodés.

8.15 RW Tauri 035727
est. 7.8 L.C. y Rodés

R Tauri 042209
est. <11.8 L.C.

W Tauri 042215 R = 5 ✓
est. 9.5 L.C
est 9.8 Rodés

R Leporis 045514
est. 8.3 LC R = 6
est f. 2 Rodés.

Feb. 16, 1917

S Aurigae 052034
0630
1 30   +35.0

cloudy

S Orionis 052404

est 9.5 ±   Le
very hazy & some clouds
in field

070122a R Gem

9 10   Too cloudy

Sat. Feb. 17. 1917

12" Polar L.C.Ob.

SS Aurigae 060547 est 11.1

7 02 R = 2 L.C.Ob.

U Gemini 074922 est <12.5

7 06

8 37 S Aurigae 052034 see. 10.2 R = 6 ✓

W. Aurigae 052036 see. 9.6 R = 4 ✓

T Orionis 053005a see 10.7 R = 2 ✓

R R. Tauri 053326 see (if seen is 12.7)

U Aurigae 053531 see. 12.6 R = —

U Orionis 054920 see. 12.1 R = 4 ✓

9. 10 Z Aurigae 055353 see. 9.8 R = 2 ✓

V Aurigae 061647 est 11. ✓ R = —

V Monoc 061702 est 10.8 R = 5 ✓

R Monoc 063308 see.
Too cloudy

9 30

Sun. Feb 18, 1917

12" Polar

9 20 SS Aurigae 060547
est 11.3

Tues. Feb. 20. 1917

L.C.Elb. 12" Polar

6 50 SS Aurigae 060547 est 11.8

6 58 R Monoc 063308 est 11.0±
est diff on acct of clouds & fog
and only considered to be approximate.

S U Tauri 054315 seq.
8 7 25 No stars visible in this
region.

Tues. March 6, 1917

G. F. Nolte, obs.

7.10	SU Tauri	054319	est.	9.4	R=4
	S Orionis	052404	est.	9.5	R=6
	R Cancri	081112	est.	8.4	R=4

Father Rodés Obs.

7 30	R Leporis	045514	est	7.8	
8 00	S Aurigae	052034	est	9.7	
9 10	X Monoc.	065208		7.6	
	—	—	— R=4	7.5	(7C)
9 30	U Gemin	074922		<11.8	[illegible]

Moon br.

Sat. March 10th 1917

N Gem 074922 inv. < 11.0 L.C. Ck

1916phae.proj..64OC

Mon. Mar. 12, 1917

G. F. Nolte, obs.

7.20	RX Tauri	043208	est. <12.0	
	V Tauri	044617	est <12.4	
	R Orionis	045307	est 10.7	R=4
	S Lyncis	063558	est. 12.7	
	R Geminorum	070122	est 10.1	R=2
	TW "	"	est. 8.3	R=6
	Z "	"	est. 12.4	
8 10	U "	074922	est. <13.3	
	S Hydrae	084803	est. 9.9	R=6
	T Hydrae	085008	est. 11.5	
	W Tauri	042215	est. 12.3	
9.40	W Aurigae	052036	est. 10.7	R=4
8 45	U Gemini	074922	est <13.3	LC.

Tues
~~Thurs~~day Mar. 13, 1917

12" P Hor.

W Urs Maj. 093~~9~~6 56

9 18	8.2	Rodes
9 20	8.3	L.C.
9 33	8.1	Ro
9 40	8.0	Ro
9 45	8.1	Ro
10 0	8.0	Ro
10 6	8.1	Ro
10 15	8.2	Ro
10 30	8.2	Ro
10 40	7.8	LC
10 45	8.1	Ro

9 22 U Gem 074922 <12.8 LC

Thurs. Mar. 15, 1917

12" Polar

U Gem 074922

7 10 out < 12.5 L.C.

Clds near region. -

Mon Mar, 19, 1917

AC Ob 12" Polar

7 10 U Gem 074922 <12.8

9 55 R Can Min 070310 est 9.0 R 5

0955
252

1000 V Gem 071713 est 9.0 R 2

S Can Min 072708 est 10.8 R 4

U Can Min 073508 est 9.2 R 5

S Gem 073723 est 8.5 R 2

R Cancri 081112 est 8.0 R 5

V Cancri 081617 est 12.5 ~~R~~

RT Hyd 082405 est 8.4 R 5

X Urs Maj 083350 est 9.0

1018
145

S Hydrae 084803 est 10.3 R 2

1021
133

T Hydrae 085008 est 11.4

Mar 19-1917

S Pyxidis 090024 est 10.6 R3

X Hydrae 093014 ~~est 10.2 R4~~
est 11.2 R4

R Leo Mi 09 39 34 est 9.4 R6

R Leonis 094211 est 9.9 R7

10 50 Y Hydrae 094622 est 7.4 R7

Tues Mar. 20-1917

12" Polar

L.C.B.

7 12 U Gem. 074922 est <12.4

7 16 SS Aurig 060547 est <12.4 L.C

Sky poor, hazy + air damp.

R Leporis 045514 est 8.8; R=8

T Leporis 050022 est

Too low in haze

S Aurigae 052034 est 10.0 R4

W Aurigae 052036 est 10.4 R3

S Orionis 052404 est 9.8

ests of Redness too diff in haze.

T Orion 05$\overset{30}{24}$05a est 10.3

S U Tauri 054319 est 9.5

7 37 U Orionis 054920 est 11.2 L.C

Mar 20 - 1917

W Urs Maj 09 36 56
07 46
1 50

7 45 est 7.8 L.C.
7 47 est 8.0 Fr. Rodés

Mar 20 - 1917

V Monoc 061702

0752

135

Too low

Y Monoc 065711 est 9.1 LC

0801

110 W +12 L

X Monoc 065208 est

8 08 Sky all cloudy, useless to continue.

Thurs. Mar. 22, 1917

12" Polar

6 56	SS Aurigae	060547	est < 12.0	L. C. Ob.
7 00	U Gemin.	074922	est < 12.3	L. C. Ob.
7 02	W Urs Maj	093656	est 8.0	L. C. Ob.
				Volta Ob
7 25	T Orionis	053005	est. 10.5	R=2
	Z Aurigae	055353	est. 10.8	R=4
	V Cancri	081617	est. 11.7	
	X Gemin	064030	est. 8.5	R=6
	R Lyncis	065355	est. 8.7	R=6
	Y Monocer	065711	est. 10.0	R=2
9 25	V Monocer	061702	est. 11.4	

SS Aurigae Chart Volta

Monday Mar. 26, 1917.

G. J. Nolte, obs.

7.40	Y Persei	032043	est. 9.5	R = 2
	S Aurigae	052034.	est. 9.9	R = 8
	R Aurigae	050953	est. < 12.0	
9.10	U Aurigae	053531	est. < 12.0	
	U Gemin	074922	est. < 12.4	
9.30	T Canum Vat	122532	est. 9.6	R = 2

Ob. bdg. to here & inclus.

Wed. March 28, 1917.

G. F. Nolte, Obs.

7 50	T Orionis.	053005	est. 10.1	R=4
	RR Monocerotis	071201	est 8.4	R=2
	V Geminorum	071713	est 9.2	R=4
	S Canis ~~Majoris~~ Minoris	072708	est. 11.9	
	T Geminorum	074324	est. 10.3	R=2
	R Cancri	081112	est. 7.5	R=10
	V Cancri	081617	est. <12.0	
	SS Aurigae	060547	est. <12.4	
	R Corvi	121418	est. 8.7	R=4
	U Virginis	124606	est. 10.6	R=2

Fri Mar 30, 1917

12" Polar

+57.2

W Urs Maj 093656

7 55 est 6 brighter than the 8.6 =8.0 L.C.

7 58 est 4 brighter than the 8.6=8.2 Rodes

8 00 Tonight the 8.4 appears fainter than the 8.6.

8 32 est 4 brighter than the 8.6 L.C. 8.2 Rodes

8 35 est 3 " " 8.6 = 8.3

8 36 est 3 the 8.6 ~~L.C.~~ = 8.3 L.C.

8 38 est 2 the 8.6 = 8.4 Rodes

8 40 R Leonis 094211 Est. 9.0 — Rodes

9 30 W. Urs. Maj. est 8.6 R

9 55 W " " 8.5 R

10 01 W Urs Maj 8.35 L.C.

10 21 W " " 8.4 L.C.

T Can Ven 122532

10 05 est 9.7 Rodes

est 9.6 L.C.

10

10 25 W Ursae Maj. 8.2

Wed. April 4, 1917.

S.F. Nolte obs.

7 45	Y Persei	032143	est. 9.4	R=4
	S Aurigae	052034	est. 10.1	R=8
	Y Monocerotis	065111	est. 10.1	R=2
	RR Monocerotis	071201	est. 8.2	R=4
	V Gemmorum	071713	est. 9.4	R=4
	X Geminorum	064030	est. 8.6	R=6
	R Lyncis	065355	est. 8.2	R=6
	R Geminorum	070122	est. 11.3	
	TW Geminorum	070122a	est. 8.2	R=2
	Z Geminorum	070122b	est. <11.6	
	R Cancri	081112	est. 7.0	R=6
	V Hydrae	104620	est. 7.2	R=10
	SS Virginis	122001	est. 7.6	R=8
10 05	R Coronae	154428	est. 6.0	R=4

Sat. April 7, 1917

H.C. Obs 12" Polar

8 00 SU Gemini 074922 est. < 11.8
clds & moon.

Sun April 8 - 1917

Obs 12" Polar

7 00 Too cldy to find Comet, even if visible.

7 25 U Gemini 074922 est <11.8 cldy in region at time.

Mon. April 9, 1917.

G. F. Nolte, obs.

7.35	T Orionis	053005	est. 10.1	R=2
	V Orionis	05003	est. <12.3	
	U Geminorum	074922	est. <13.3	
	S Ursae Majoris	123961	est. 8.3	R=6
8.25	T Ursae Majoris	123160	est. 9.5	R=4
	S Hydrae	084803	est. 8.4	R=2
	T Virginis	120905	est. 10.4	R=2
	T Can Ven	122532	est. 9.7	R=2
9.00	S Bootis	141954	est. 8.4	R=2
925	R Coronae	154428	est. 6.1	R=6

10

Tues April 10—1917

L.C.Ob , 12" Polar

8 12 U Gemini 074922 est <12.8
Some clouds passing thru field.

R Gemini 070122a est 12.1 R 3

9 00 TW Gem 070122b est 8.8 R 3
Z Gem 070122c est 12.4 R 2

R Can Min 070310 est 9.2 R 3

RR Monoc 071201 est 8.2 R 2

U Can Min 073508 est 8.7 R 2

S Gemini 073723 est 8.4 R 2

R Cancri 081112 est 7.4 R 4

RT Hyd 082405 est 8.9 R 5

X Urs Maj 083350 est 11.6 R 2

S Hydrae 084803 est 8.7 R 3

April 10 - 1917.

T Cancri 085120 est 8.5 R 6

X Hydrae 093014 est 11.4 R 2
Clds nearly

R Leonis 094211 est 9.8 R 6

R Leo Min 093934 est 9.6 R 4

V Leonis 095421 est < 11.5 clds.

S Leonis 110506 est Too cloudy

9 30 Too cloudy to continue at present.

9 50 No use to wait longer.

17 Ledgered

U^{330}

Wednesday April, 11, 1917

12" Polar

L. C. Observer   J. B. Hohlitz, Recorder

9.42 R Virginis ϕ123307 est=7.0

U Virginis ϕ124606 est=9.3

T Can. Ven. ϕ122532 est=

9.52 Too cloudy to continue

April (21)

21333

Saturday, April, 14, 1917.

12" Polar

S. C. Obs. J. B. D. Rec.

9.15 T. Can. Ven. 122532 est=9.6 R=2

S. Bootis 141954 est=9.1 R=3

Y Hydrae 094623 est=7.0 R=6

V Hydrae 104620 est=7.5 R=8

V Leonis 095421 est=12.7
variable slightly brighter than
the companion.

S Leonis 110506 est=12.9

RU Virg. 124204 est=13.0

recorded wrong! look up T Virg. 120905 est=9.4? R=2

Y Virg. 122803 est=9.9 R=3

R Corvi 121418 est=9.6 R=4

T Urs. Mag. 123160 est=9.0 R=3

S Urs. Mag. 123961 est=8.7 R=4

S Virg. 132706 est=8.9 R=3

R Can. Ven. 134440 est=10.8 R=3

April, 14, 1917 //

V Bootis 142539 est = 7.4 R=3

R Bootis 143227 est = 8.0 R=4

U Bootis 144918 est = 10.3 R=2

S Serp. 151714 est = 12.5

S Coronae 151731 est = 8.9 R=4

X Coronae 154536 est = 11.5 R=3

10.03 V Coronae 154639 est = 9.3 R=7

1518 SS. Cygni 213843 est 8.3
at Maximum.

16 20 Comet Mellish not seen in
Eastern sky.
Probably too near horizon and in haze.

(22)-(43)

Sun. April 22-1917

~~[illegible]~~
21341

L.C. Obs. 12" Polar

12 10 R Hydrae 132422 est 6.0 ± R 8

S Virg. 132706 est 9.2 R 4

RR Virg 135908 est <12.0

Z Virg 140572 est 12.4

RS Virg 142205 est 9.5 R 3

R Librae 143417 est 10.8 R 2

RT Librae 150018 est 9.2 R 2

T Librae 150519 est <12.2

Y Librae 150605 est <11.8

S Librae 151520 est 10.2

RS Librae 151822 est 9.0

RU Librae 152714 est 8.4 R 3

X Librae 153020 est <11.8

U Librae 153620 est <12.0

April 22-1917

1 3 00 R Serp 15 46 15 est 6.0 R 3

R Librae 15 47 15 est 11.0

RR Librae 15 50 18 est 10.0 R 2

R Herc 16 01 18 est 11.4

U Serp 16 02 10 est 10.3 R 3

W Coronae 16 11 38 est 9.3 R 3

V Ophiuchi 16 21 12 est Too hazy

U Herc 16 21 19 est 12.0

SS Herc 16 28 07 est 11.8

W Herc 16 31 37 est 11.4 R 3

S Herc 16 47 15 est 10.1 R 2

RV Herc 16 56 31 est 10.4 R 3

R Cor. Bor 15 44 28 est 7.4 R 2

April 22-1917

R Oph 170215 est Too hazy

RT Herc 170627 est 9.3 R 3

Z Oph 171401 est 8.2 R 3

RS Herc 171723 est 12.2

RT Oph 175111 est 10.4 R 3

V Drac 175654 est 9.6

RY Herc 175519 est 10.4 R 4

T Herc 180531 est 12.0

SS Cyg 213843

14 10 Tried in 12" & 6" but too cloudy to see any stars

14 20 Too cloudy to continue.

33

Ped

April 24 - 1917

21343

8h 15m R Geminorum 074922 est. 11.2 Fr. Rodés
Cloudy in this region

8h 30 W Ursae Majoris 093656 est 7.6 Rodés
Cloudy

Monday, April, 30, 1917.

2,749

L. C. Obs. J.B.D. Rec.

7.56 U. Gemin. 074922 est = 9.6

Sky very poor, no faint stars visible. Star ~~B~~ b = 9.5

~~R Coronae~~

$2^{h}35^{m}$

Wednesday
~~Thursday~~, May, 2, 1917.

L. C. Obs. J. B. D. Rec.

7.56 U. Gemin. 074922 est = 9.9
Observation rather difficult
on account of haze.
star ~~B~~ b = 9.4

21356

Monday, May, 7, 1917.

L. C. Obs.   J. B. D. Rec.

8.53 U Gemin. 074922 ~~at~~

As far as observer can estimate var. appears to be about 12.0 magn.

star b (90) = 8.8 L.C.Ob.

8.45 Star b appears slightly brighter than 9.3 to L.C.

8.50 Star b seems slightly fainter than 9.3 to J. B. D.

Above obs. ~~and~~ considerably affected by clouds.

21364

Tuesday 15 May 1917

10^h 0	R Can. Venat.	134440	est 11'5	Rodés
10^h 05	Y Virginis	122803	est 10'3	"
10^h 30	S Virginis	132706	est 10.6	"
10^h 55	T Cann Venat.	122532	est 10.6	"

Cloudy in many regions

Wednesday May 16, 1917

G.F. Nolte, Obs.

8.40	R Coronae	154428	est. < 12.0
	U Geminorum	074922	est. < 11.4
	V Cancri	081617	est. < 11.0
9 15	Y Virginis	122803	est. 10.4 (uncertain)

Thursday (12" polar) May 17, 1917 21366

G. F. Nolte, obs.

9 05	R Geminorum	070122(a)	est. <12.1	
	TW Geminorum	" (b)	est. 8.1	R=4
	Z Geminorum	" (c)	est. <12.1	
	Y Virginis	122803	est 10.4	R=4
9 30	R Coronae	154428	est. 13.0	
	R Corvi	121418	est. 10.8	R=6
	V Leonis	095421	est. 9.7	R=4
	T Virginis	120905	est. 11.7	
	SS Virginis	122001	est. 8.7	R=10
10 15	RU Virginis	124204	est <12.4	

Campbell

25 368

Saturday. May, 19, 1917

L. C. Obs. J. B. D. Rec.

T. Can. Min 122532

1022 R. Can. Min 134440 est = 11.4

Sky too poor to work with this telescope.

$2^h 37^s$

Friday May 25

9^h 30 U Virginis 124606

9^h 40 Cloudy in this region

9 55 V Bootis 122539 Cloudy

R Virginis

10^h 15 V. Coronae 154539 est. 10.4 L. Rodés

10^h 45 R Bootis 143227 est 11.5 Rodés

Cloudy

21 376

Saturday, May, 26, 1917.

12" Polar

L. C. Obs. J. B. D. Rec.

9.15 S. U. Virginis 120012 est = 11.8

T. Virginis 120905 est = 11.9

Look at mirror Monday

S. S. Virginis 122001 est = 8.7 R = 6

R Hydrae 132422 est = 6.0

U. Virginis 124606 est = 8.5

R. U. Virginis 124206 est = 12.2

R Virginis 123307 est = 11.3

V Bootis 142539 est = 8.5 R = 4

R Bootis 143227 est = 10.9

Y Virginis 122803 est = 12.2

Obs. diff.

S Virginis 132706 est = 11.8

R Corvi 121418

Too low in cloud.

9.46 T. Can. Ven 122532

Too cloudy

Tues. June 12, 1917

12" Polar

Found newly silvered flat mirror on 12-inch ~~today~~.

L.C.

21393

Wednesday, June 13, 1917

12" Polar

L. C. Obs. J. B. D. Rec.

8.58 R. Can Ven 134440 est=11.5 R=4

T Can Ven 122532 est=11.5 R=2

The 11.9 is ½ mag. fainter than the 11.3

R Serp 154615 est=8.3 R=3

V Coronae 154639 est=10.5 R=6

R Comae 115919 est=9.1 R=4

SU Virginis 120012 est=9.4 R=4

SS Virginis 122001 est=8.8 R=8

R ~~B~~ V Virginis 130212 est=10.6 R=3

V Virginis $13\overset{2}{0}2\overset{0}{1}2$ est=$1\overset{1}{1}.0$

RR Virginis 135908 est=11.9

Z Bootis 140113 est=11.9

Z Virginis 140512

Too low in haze.

S Bootis 141954 est=11.7

RS Virginis 142205 est=8.9 } to here

June, 13, 1917.

U Bootis 144918 est=11.5

S Serp. 151714 est=10.8
Obs. a little uncertain

S Coronae 151731 est=10.4 R=3

10.00 X Coronae 154536 est 12.0

Z Coronae 155229 est 11.0

U. Serp. 160210 est 8.2

10.06 Sky too poor to continue with advantage

(19)

Thur. June 14, 1917

L.C. Obn 12" Polar ,

R Cor Bor 154428
9 45 est 13.0

160625 RU Herc < 12.5
clouds nearly

161138 W Coronae est 11.6

162119 ~~W~~ U Herculis est 10.6

10 00 Sky all cloudy

4-23 (LC)

June 18 - 1917

10h 30m	T	Herculis	180531	est 7.8	Fr Rodés
10h 40m	V	Bootis	142539	est. 9.0	"
11h	U	Herculis	162119	10.2	"
	V	Coronae	154539	10.6	"
	R	Serpentis	154615	Cloudy	

Cloudy

~~Sat.~~ June 30, 1917

12" Polar

L. C. J. Obv. A. D. Rec.

9:37 R. Coronae 15 44 28 Est. = 11.8

S.T. = 16:40

Fri. July 6 1917

SS Cyg. 8:50 11.8

R Cor. 8:58 11.5

T Oph 9:22 10.7

X Aquil 9:30 10.4

R Scuti 9.45 5.4

Alfaro

2416

made at

No abington

2145 /

Thurs. July 5 - 1917

L.C.Obs. 12" Polar

8 35 R Cor. Bor 154428 est 11.4

Var & the 11.4 seen with difficulty on account of haze & clouds.

8 50 Sky now clearer here
re-est of R Cor Bor = 11.3
R Comae 115919 est. 10.41
S. U Virg 120012 est. 9.3

T Can Ven 122532 est. 11.5

SS Virg 122001 est. 9.3

R Virg 123307 est.
Clouds.

9.25 SS S Cygni 213843 est 11.6

Z Bootis 140113 est. 10.5

R Bootis 143227 est. 10.8

S Serp 151714 est.
Clouds.

9.40 Too many clouds.

(9)-(9)

21417

Sat - July 7 - 1917

L.C. Obs. 12" Polar

7 20 R Cor Bor 154428 est 11.2

U ~~R~~ Virginis 124606 cldy

R Can Ven 134440 est 10.3

Z Virg 140512 est 10.4

U Bootis 144918 est 11.6

S Serp 151714 est 10.3

S Cor. 151731 est 11.2

R Serp 154615 est 9.0

V Coronae 154639 est 10.7

U Serp 160210 est 8.5

10 00 U Herc 162119 est 8.9

Ests of Rodman plotted to here

33

Sky very poor.

10 10 SS Cygni 213843 est <11.2 clds & haze

Too poor to continue (11)-(20)

2-1423

Friday July 13, 1917.

12" Polar.

L. C. Ob. P. D. Rec.

R Coronae 154428

8 32 clouds

8.42 est = 10.8

Tighten wires on instrument.

Ob. difficult on account of clouds.

Sky thickly clouding. No prospect of improvent.

(1)(21)

21425 Sun July 15—1917

R.C. Ob. 12" Polar

9 20 R Coronae 154428 est 10.3

9 22 SS Cygni 213843 est 11.6

R Scorpii ~~2~~ 161122a est <12.2

S Scorpii 161122b est 10.8

RS Virg 142205 est 8.9 ~~[illegible]~~

R Bootis 143227 est 9.4

1717

245 +28.2

W Coronae 161138 est 12.3

SS Herc 162807 est 11.0

SS Oph 165202 est <11.5

9 49 S Herc 164715 est 12.1 diff.

21425

July 15 – 1917

10 00 RT ~~Oph~~ Herc 170627 est 12.3

17 43
36 + 28.2

RS Herc 171723 est 8.0

RU Oph 172809 est 9.2

RT Oph 173711 est <12.2

T Drac 175458 est 12.0

– Drac sp. T = 11.5

V Drac 175654 est ~~<~~ 12.5 surely seen after all.

Z Oph 171401 est 9.7

T Herc 180531 est 9.1

RY Oph 181103 est 9.0

10 30 W Lyrae 181136 est <11.5

Sky too poor to continue

(21) (42) July

2421428

Wednesday July 18, 1917

L. C. Ob. 12" Polar. Phil. D. Rec.

9.00 R. Coronae 5 4428 est. = 9.8

9.02 ~~S S Cygni 21 48 43~~ 38
S S Cygni 213843 → est. = 11.5

~~W~~ T. Serp. 182306 est. = 10.6

X Oph. 183308 est. = 8.4 R5

R. Aquil. 190108 est. = 6.0 R4

W Aquil 191007 est. = ~~9.0~~ 9.0

R Sagitt. 191019 est. = 11.7

R W Sagitt. 190819 est. = 10.4

R X Sagitt. 190818 est. = 9.7

S Sagitt. 191319 est. = 11.8

July 18, 1917

T Sagitt 191017 est. = 12.4

TZ Cygni 191350 est. = 10.4

TY Cygni 192928 est. = 13.2

RT Aquil. 193311 est. = 12.7

R Cygni 193449 est. = 10.4R5

RV Aquil. 193509 est. = 9.6

RT Cygni 194048 est. = 9.0

TU Cygni 194348 est. = 12.5

Clouds near this region.

X Aquil 194604 est. = 11.2

July 18, 1917.

χ Cygni 194632 est. = 9.8 ±

Reject this obs. – clds made obs. too uncertain.

1000 Clouds over region.

Sky all cloudy. No use to continue.

(19) – (61)

Friday July 20, 1917

2^14 30 L.C. Ob. 12" Polar P.D.

R Cor Bor 154428 est = 10.1
Variable seems certainly fainter
9.05 & sky somewhat haze. ~~[illegible]~~

9.08 S S Cygni 21 .. 43 = 11.3
& sky still Hazy
Obs. difficult.

X Cygni 194632 est = 11.4 R 5

Z Cygni 195849 est. = 10.4 R 4

R R Aquil. 195202 est. = 11.7

S Y Aquil 200212 est = 12.5

R Capric. 200514 est. =
too cloudy in this region.

R U Aquil. 200812 est. = 12.7
Obs. difficult.
Variable faint.

July 20, 1917.

RS Cygni 200938 est. = 7.3 R 7

W X Cygni 201437 est. = 12.6 R4

V Sagittae 201520 est. = 12.5

U Cygni 201647 est. = 7.8 R7

RW ~~C~~Cygni 202539 est. = 9.1 R6

Z Delph. 202817 est. = 12.2

ST Cygni 202954 est. = 11.4

10.00 V Cygni 203847 est. = 11.4 R7

~~10.00~~ T Aquar. 204405 est. =

Too many clouds.

July 20, 1917.

V Delph. 20 43 18 est.= 12.4

R Vulp. 20 59 23 est.= 10.3

T W Cygni 21 01 29 est.=
Too cloudy to continue.

S S Cygni 21 38 43 est.=
Too cloudy.

Fix lights on 12" circle.

R

(17)-(78)

Sat July 21, 1917

L.C.Ob. 12" Polar

R Coronae 154428

1018 est 10.0
slgy hazy obs. diff.

SS Cygni 213843

1022 est 11.1

R.

Sun. July 22, 1917

H.C.Obs 12" Polar

8 30 R Coronae 15442 8 est 9.8

SS Cygni 21 38 43 est 10.9

8.35
10 13 — — — est 10.6

10 19 — — — est 10.6 (6")

10 22 — — — est 10.6

Var. surely brighter than last night or earlier in evening.

$(5^-) - (8\,5^-)$ ∠

Mon. July 23-1917

L.C. Obs. 12" Polar

8 43 (213843) SS Cygni L.C. est 10.2
— — Bu — 10.1
— — E.L. Gould — 10.2

9:00 R Coronae 154428 L.C. = 9.7
— — — Bu = 9.8
— — — Gould = 9.5

T Herculis 180531 L.C. = 10.0
9 20 — — — Bu = 10.0
— — — Gould = 10.2

W Lyrae 181136 L.C. = 10.4
9 44 — — Bu = 10.4
— — Gould = 10.1

R Cygni 193449 L.C. 10.1
9 56 — — Bu 10.5
— Gould 10.4

(5) - (90) L.

Tuesday July 31, 1917

Ld. Ob. 12" Polar. P.T.D.R.

9.13 R Coronae 154428 est. = 9.5

9.15 SS Cygni 213843 est. = 11.8

~~Repair Bullen~~

Saturday, August 4, 1917

D. C. Ob. 12" Polar S. T. D. Rec.

8.52 R Coronae 15 44 28 est.= 10.0

8.54 S,S Cygni 21 38 43 est.= 11.8

R Cygni 19 34 49 est.= 9.0 R 4

Sunday August 5, 1917

L. C. Ob. 12" Polar P. T. D. Rea

9.34	R Coronae	154428 est =	10.0
9.35	S S Cygni	233843 est. =	11.7

Tues Aug. 7, 1917

P 12" Polar

	R Coronae	154428	est	10.4	L.C.
8 05	—	—	—	10.5	Spinney
	—	—	—	10.2	Burbeck
	SS Cygni	213843	est	11.3	L.C.
8 16	—	—	—	11.4	Sp.
	—	—	—	11.4	Bu
	R Cygni	193449	est	9.1	Sp
8-50				9.1	Bu
9.15	RT Cygni	194048	Est	9.5	Sp
				10.2	Bu
9.25	TU Cygni	194348	est	11.5	Sp
				11.6	Bu
9.45	W Lyrae	181136	Est	10.0	Sp
				9.6	Bu
10.05	Z Cygni	195849	Est	11.0	Sp
				11.4	Bu
11 15	SS Cygni	213843	est	11.4	L.C.

(3) – (8)

Wed. Aug. 8 - 1917

L.C.Obs. 12" Polar

8 23 R Coronae 154428 est 10.5

S', S' Cygni 213843 est

8 28 Too cloudy here

Focus of low power eyepiece
reads ~~29~~ cm 28.9 from base
of large brass plate marked
to read H.9.

8 33 SS Cygni 213843 est 11.3

clearer here now

Fri. Aug. 10, 1917.

L.C. Obs. 12" Polar

9 00	R Coronae 154428	est	10.7
9 02	SS Cygni 213843	est	11.4
~~10 56~~	~~SS Cygni 213843~~	~~est~~	

Sun Aug 12, 1917

L. C. Obs. 12" Polar

908^0	SS Cygni	213843 est	11.5
908^3	R Coronae	154428 est	12.0

Sat. Aug. 18, 1917

$21\,4^{59}$

12" Polar.

SS Cygni. 213843

9 10 (10.0) 3, 4 (10.9) = 10.4 L C

(10.0) 4, 4 (10.9) = 10.4 S. A. Mitchell

The 10.4★ appear equal or slightly than the 10.9 according to both observers.

10 52 SS Cygni 213843 est 10.4 L C

Sun. Aug. 19, 1917

L.C.Ob. 12" Polar

7 48 SS Cygg. 213843 est 9.9

10 47 — — — est 9.8

Mon Aug 20 - 1917

12" Polar

10 45 SS Cygni 21 38 43

est 9.7

Thurs. Aug. 23, 1917

L.C. Obs. 12" Polar

7 46 SS Cygni 213843 est 8.3

Obs'd thru gap in clouds.

Fri. Aug. 24, 1917

12" Polar L. C. Olb

9 08 SS Cygni 213843 est 8.2

Sat. Aug 25 – 1917

12" Polar

L.C. obs

8 48 SS Cygni = Z1 3843 at 11.3 ?

Obs'd thru gap in clouds

Sun. Aug. 26 - 1917

12" Polar

L. C. Ob

10 37 SS Cygni 21 3843 est 9.8

Var. surely fainter tonight Observation well made & no clouds.

Mon Aug. 27, 1917

12" Polar

LC Clr

9 50 SS Cyg 213843 est 10.0

Fri Aug 31, 1917

L.C. Obs. 12" Polar

7 39 SS Cyg. 213843 est 11.3

Moon bright considerable cloud
and observation difficult.

Tues. Sept 4, 1917

12" Polar

L.C.Obs.

SS Cygni 21 38 +43

8 20 est 11.5

Mon Sept 10, 1917

12" Polar.

SS Cygni 213843

10 48 — — est 11.2 L.C.

10 48 — — 11.1 Duchame

11 10 o Ceti N.E. Obs est 3.9

recorded next morning from memory

Tues Sept. 11, 1917

L. C. Clb 12" Polar

7 02 Star in M. 11 agrees with region on B31736

7 06 SS Cygni 213843 est 11.1

Wed. Sept. 12, 1917

H.C.Obs. 12" Polar Phot T.

Iris.

Same comp ~~*~~ as on Sept. 10 & 11.

P.a. ~~90~~ 0

) 53.? 2.2
55.8 53.6
176.8 49.1
225.9 102.7 +

0.0
51.2 51.2
181.6 45.8
f 01.0 227.4 97.0 +

P.a. ~~270~~ 180

Impossible to measure such faint stars with phot T on this telescope. Cannot understand why images are so faint for ~~a~~ 7.8 & 9.5 magn stars.

) 10 SS Cygni 21 38 43 - at 11.3

Thurs Sept 13, 1917

L. C. Obs 12" Polar

) oo SS Cygni 213843
est 11.2

Fri. Sept. 14, 1917

LCab 12" Polar

7 03 SS Cygni 213843 est 11.5

Uranus Phot.

7 30 all cloudy.

Sun. Sept 16, 1917

L.C. Obs 12in Polar

9 52 SS Cygni 213843
est 11.5

Tues. Sept 18, 1917

LCCb. 12" Polar

10 05 SS Cygni 213843 est 11.1

11 00 o Ceti eye est (021403) = 3.8

Wed. Sept. 19, 1917

L.C. Ob. 12" Polar

9 10 S S Cygni 213843 est 11.4

(L.V. = 12.0 only)

Thurs. Sept. 20, 1917

L.C. Obs. 12" Polar

> 17 SS Cygni 213843 est 11.4

(L.V. = 12.0)

RS Herc 171723 est 10.0

19 37

2 20 w

W Lyrae 181136 est ~~est~~ 7.8

19 41

1 30 clouds nearby.

X Oph 183308

19 43

> 33 1 10 w +8.7

cldy here

R Cygni 193449 ~~est~~

1944

0 10 +49.9

> 60 Too cloudy

Sept. 20, 1917

9 10 Clear again

9 20 P Cygni 193449 est. ≥ 8

RT Cyg 194048

9 30 Too much dew on Mirror

no ~~faint~~ stars seen fainter

9 33 than 10.0±

21494 Sat. Sept. 22, 1917

L.C. Obs. 12" Polar

Resilvered flat mirror put back this a.m.

8 25 S S Cygni 213843 est 11.3

L.V 12.8±

SV Drac 183149 est ~~[illegible]~~ 10.6

LV 13.0

RZ Herc. 183225 est 10.5

~~L~~V 13.0

X Oph 183308 est 8.0

R aquilae 190108 est 10.1

RW Sagitt 190819 est Too low

RX Sagitt. 190818 est

9 00 S Lyrae 190925 est 10.6

21 2e

211 +25.8

RS Lyrae 190933 est < 13.0

2126

217

Sept 22, 1907

RU Lyrae 190941 est 10.9

W Aquilae ~~19096~~ est 8.8
191007

U Lyrae 191637 est 10.8
R 7

TZ Cyg 191350 est 10.6

look up star in 0' on a yellow plate appears much brighter than any of the other three stars in the group & not even red in color.

RT Cyg 194048 est 11.3

TU Cyg 194348 est 9.3

S Cygni 200357 est 12.2

RS Cyg 200938 est 8.0 R 9

R Delph 201008 est F9.0

Sept 22, 1907

S X Cygg 201130 est 9.6

W X Cygg 201437b est 12.7

U Cygg 201647 est 8.9 R+

S Delph 203816 est 10.2

V Cygni 203847 est 10.7

10 200 T Delph 204016 est 12.7

X Delph 205017 est 12.8 if seen

R Vulpec 205923 est 9.0

TW Cygg 210129 est <12.8

SY Aquil 200212 est <12.7

RS Aquar 210504 est 10.4

R Equulei 210812 est 13.2

RR Aquarii 210903 est 9.8

RR Peg. 214024 est 9.2

V Pegasi 215605 est 9.7

Sept 22, 1917

RT Peg 215934 est 10.7

susp var comp to RT = 10.4

T Pegasi 220412 est 12.8

Y Pegasi 220613 est 11.2

RS Pegasi 220714 est <12.8

S Lacertae 222439 est 8.9

R Lacertae 223841 est 10.9

RW Pegasi 225914 est 10.3

V Cass. 230759 est 8.1

11 00 o Ceti (eye est) 021403 est 3.7

Pedg.

21495 /

Sun Sept 23, 1917

L.C. Obs. 12" Polar

8 00 SS Cygni 213843 est 11.4

L.N. 12.8

U Capric 204215 est 12.0

V Capric 210124 est Too cloudy

Y Capric 212814 est < 12.6

20 32

0 56 E -14.4

T Capric 211615 est 10.3

20 34

0 42 -15.6

U Aquarii 215717 est 12.7 susp only

20 42

1 15 E -16.0

X aquarii 221321 est Cldy here

20 46

1 27 E -20.5

S Aquarii 225120 est

20 50

2 1 E -19.9 cloudy

Sept 23 1907

R Pegasi 230110 est 12.6

W Pegasi 231425 est 11.4

S Pegasi 231508 est <12.0 hazy & cldy

Z androm 232848 est 9.0

ST And 233335 est 10.1
2117
2162

Z Cass 233956 est <12.6
2118
2212

R R Cass 235053 est 12.0
2121
2292 +5 3.0

900

R Cass 235350 est 12.7
2125
228 +50.8

Z Pegasi 235525 est 9.3
2130
2252 +25.4

Sept 23–1917

γ Cas 23 58 55 out Too cloudy here

23 59 39 SV And

21 34

2 25 E Too cloudy to continue

69

Tues. Sept. 25, 1917

L.C. Obs. 12" Polar

6 50 SS Cygni 213843 est 11.5

(1) (70)

Sat. Sept. 29 - 1917

L.C. Obs. 12" Polar

7 02 SS Cygni 213843 est 11.5

Obs. diff & var seen only by watching a long time for a thin place in the generally sky.

Repair cover for light,

R Delph 2010 08 est.
2013
0 3 W +8.8

A 3, 2 (9.5) as obsd by both
8 03 L.C. & D.W. Block

See Hagen chart for * A.

R Cygni 1934 49
20 55
1 21 W +51.0

est L.C. = 7.9 var ‖ < 7.5 + 1 ‖ > 8.0
8 30 est D.W.B. = 8.1 var ‖ < 7.5 + 1 < 8.0

Sept. 29 – 1917.

S Lacertae 222439
−21 257
0572 +39.8

Too cloudy

Mon. Oct. 1-1917

L.C. Obs   12" Polar

moon bright.

SS Cygni 213843 est 11.3

6 52   LV = 12.5±

R Cygni 19 34 49

9:20

D.W.B Est. = ~~8.9~~ 8.6   ~~(8.4~~

Est MHVann = 8.7   (9.1) ~~3, 5~~ 5, 2 (8.4)

S Lacertae 22 24 39

22 23

1   +40.8

9:50 D.W.B. Est. 8.9   (9.0) 1, 7 (8.2)

MHV. Est 8.9

L.C Est. 8.8

R. Delphini 201008

10:33 D.W.B Est. - 8.6

2 - 2 L.C.

3 - 3 D.W. Block

2 - 2 MHVann.

Tues. Oct. 2, 1917.

12" Polar

SS Cygni 21 38 43
7 06 ~~est~~ 11.4 L.C.O.B.

R Cygni 19 34 49 51
20 16
42
7 35 Est. 8.7 D.W.B
Est 8.7 M.H.V.

R Delphini 20 10 08
20 55 +9.8
45 W
3
8 35 Est. 8.2 D.W.B
Est. 8.3 M.H.V.

S Lacertae 22 24 39
21 45 40.8
39 ~~#~~E
9:00 Est 8.6 D.W.B.
8.4 M.H.V.

~~SS Cygni~~ ~~21 39 43~~.1
~~22 10 +44~~
~~31 W~~

U Cygni 20 16 47
9.35 Est 8.5 M.H.V. 22 15 48.6
Est 8.5 D.W.B. 1 59 W.

Tuesday Oct 2, 1917

SX Cygni

20 11 30 8
22 45
2 34

10:20 Est 9.9 M.A.V.

1 – 3 P.C.
4 – 7 Du.B.
5 – 7 M.H.V.

Ledg.

21505

Wed. Oct. 3, 1917

P 12" Polar

7 05 SS Cygni 213843 est 11.4 L.C.
7:12 est 11.2 D.W.B.

R Cygni. 19 34 49
20 20 +51
46 W

7:24 Est. 8.9 D.W.B.

7:35 R Delphini 20 10 08 est 8.2 D.W.B.
30
20 W

8:20 S Lacertae 22 24 39.5 est 9.0 D.W.B.
20 42
1 42

at Sid. Time 21 26 δ = 41.4 hr. angle 57 east.

U Cygni 20 16 47 48.6
21 30
1 14 W

At S.T. 21 51 hour ∠ = 1 37½ west δ = 48.7

8:55 Est. 8.7 D.W.B.

R Lacertae 22 38 41 42.8
22 10
28 E

Prof. wrongly identified

9:20 Est 10.2 D.W.B.

At S.T. 22 24 Hr. angle 7 E. δ = 43.2

~~R Vulpeculae 20 59 23.41~~ - 4 = L.C.
~~22 41~~
~~4 2 W~~ 5 - 12 = D.W.B.
- 7 - M.H.V.

Thurs. Oct. 4, 1917

12" Polar

7 00 SS Cygni 213843 est 11.5 L.C. Obs
δ = +44.5 H.A. 1:28 E S.T. = 20:10

R Cygni 19 34 49
8.15 Est 8.7 M.H.V. 20 42 +57.3
est 8.5 L.C. 1:38 W
21:10

8:30 U Cygni 20 16 30
est 9.3 M.H.V. +49
1:15 W

R Lacertae 223841 21 30
9.5 Est 11.4 M.H.V. 22 19
2.7 W
est 11.4 L.C. + 30.8

SX Cygni 20 11 30.8
9.18 est 9.5 M.H.V. 22 15

2 2 30
22 24 39

10:00 S Lacertae
est 9.3 M.H.V.
est 9.3 L.C.

3 – 7 L.C.
0 – 12 DuB.
5 – 12 M.H.V.

Sat. Oct. 6, 1917

12" Polar

> 40 SS Cygni 213843 est 11.4 L.C.Obs.

Obs'd thru gap in clouds.

1 8 LC.
— 12 DwB.
— 12 MHV.

Sun. Oct. 7, 1917

12" Polar

8 35 55 Cyg. 213843 est 11.5 LCB.

1 9 LC
— 12 DWB.
— 12 MHV.

Thurs. Oct. 11, 1917

12" Polar

7 30 cloudy.

7 48 SS Cygni 213843 est 11.4 L.C.

— — — est 11.5 Bu.

1 10 L.C.

— 12 DuB.

— 12 M.H.V.

Sat. Oct. 13, 1917

12" Polar

6 42 SS Cygni 213843 at 11.5 — LCB.

1	11	LC
—	12	DWB
—	12	MHV.

Sun Oct 14. 1917

~~LOOb.~~

12" Polar

6 5 3 SS Cygni 213843 est 11.5—
L.V. = 12.3

R Cygni 193449 est 8.6

R Delph 201008 est 8.7

SX Cyg 201130 est 9.6

> 00 U Cyg. 201647 est 10.3

R Vulpec 205923 est 10.0

S' Lacertae 222439 est 9.5—

> 12 R Lacertae 223841 est 11.9

RT Oph 175111 est <12.0

$\frac{2104}{313}$

– RY Herc 175579 est 9.6

T Herc 180531 est 9.4

TV Herc 181031 est × 3,47

see chart α

Oct. 14, 1917

R aquilae 190108 est 10.9

W aquil 191007 est 10.0

U Lyrae 191637 est 9.8

RT Cyg 194048 est 9.1

TU Cyg 194348 est 10.4

S Cyg 200357 est 10.7

too S aquil. 200715a est 12.0

19 30 LC
— 12 DWB
— 12 MHV.

L

Mon. Oct. 15, 1917

~~Lt~~ 12" Polar

6 43 SS Cygni 213843 est 11.5 L.C. Obs.

Obs'd just before clouds settled in again.

1 31 L.C.
— 12 DWB.
— 12 MHV.

Tues. Oct. 16, 1917

12" Polar

Ab.	7	10	SS Cygni	213843	est 11.4 Z.V. = 12.5	L.C.Ob.
	8	15	—	—	- 11.3	D.W.B.
	8	50	R Cygni	193449		8.9 D.W.B.
	9	03	R Delphini	201008		8.~~5~~4 D.W.B.
	9	20	U Cygni	201647		8.8 D.W.B.
	9:	40	R Vulpeculae	205923		8.4 D.W.B.

~~SX Cygni 201130~~

1	32	L.C.
5	17	D.W.B.
—	12	M.H.V.

Wed Oct 17, 1917

12" Polar

7 07 SS Cygni 2138 + 43 est 11.4

Sky Hazy f.v. = 12.0 only.

R Cygni

~~Uranus~~ Phot T.

21 28 −15.5

Experimental only.

P.a.

~~92.2~~

234.4

289.2 548

63.3 39.9

103.2 94.7

241.0

282.2 412

55.8 462

100.0 ± 85.4

P.a.

8 15 All cloudy.

1 33 P.C.

= 17 D.W.B.

12 McHV.

Thurs Oct. 18, 1917

L 12" Polar Telescope.

6 45 SS Cygni. 213843 est 11.1 L.C. Obs.
L.V. 12.2

7 00 all cloudy, thin

8 00 all cloudy, dense

9 00 all cloudy, dense.

1 34 L.C.
— 17 DwB
— 12 MHV.

Fri Oct. 19, 1917

12" Polar

6 32 SS Cyg. 213843 est 11.0 or 10.9
Clouds passing, making observation difficult
L C

8 00 reobserved, = 10.9
Sky clear
LC

9 35 Raining.

2 36 L.C.
— 17 D.W.B.
— 12 M.H.V.

Sat. Oct. 20, 1917

12" Polar

6 25	S S Cygni	est 8.1 L.C.
6 26	— —	est 8.4 Spinney
6 32	— —	est 8.3 I.E.W.

↘ clouds passing

1	37	L.C.
–	17	D.W.B.
–	12	M.H.V.
1	1	I.E.W.

Monday Oct. 22, 1917

12" Polar

8 12 SS Cygni 213843 est 8.3 L.C.Obs.
— — — 8.3 M.H.V.

R Cygni 193449 est 8.6 L.C.
86 M.H.V.

201647 U Cygni 23 12
est 9.4 M.H.V. 2 56
20h 16 49.4°

201030 S.X. Cygni 20h 11.6
10.6 M.H.V.

est L.C. = 10.7

3 40 C
— 17 β
4 16 V
— 1 Wo

Thurs Oct. 25, 1917

12" Polar

8 35 SS Cygni 213843 8.3 LC
8.3 Bu

1	41	C
—	17	B
—	16	V
—	1	Wo

Fri. Oct. 26, 1917

12" Polar

6 30 SS Cygni 213843 est 8.3 LC

Clds nearby.

7 30 R Cygni 193449 est 8.7 D.W.B

21 55
2-21

7 42 R Delphini 201008 est. 8.2 D.W.B.

22 10
2 0

8 30 ~~S~~ S Lacertae 222439 est. 9.6 D.W.B
9.7 M.H.V.

22 45
21

8:45' SS Cygni 213843

23 12
1-34

Est 83 M.H.V.
Est 84 DWB

9:15 W Cygni 201647 Hazy

23 23
3 7

9.3 LC
9.1 DWB
9.2 M.H.V.

10.00 S.X. Cygni 20 11.30
32
21

Cloudy

Friday Oct. 26, 1917

12" Polar

Reappearance Jupiter III

D.W.B. Obs.
M.H.O. Rec.

$9^h\ 50^m\ 59\frac{1}{2}^s$ seen

$-\ 19\ 1/2$

1^4 9 50 40 G.M.T. of Reap.

C's Watch = 22^s fast at 10:12

2	43	C
5	22	B
3	19	V
—	1	Wo

Sat. Oct. 27, 1917

12" Polar

6 35 SS Cygni 213843 est 8.4 L.C.Ob

1	44	C
—	22	B
—		
—	19	V
	1	W_o

Tues Oct 30, 1917

12" Polar

8 50 SS Cygni 213843 est 9.2 L.C.Obs.
L.V. 11±
High wind, seeing poor. Full Moon.

1	45	C
—	22	B
—	19	V
—	1	W_0

Wed. Oct. 31 - 1917

12" Polar

9 26 SS Cygni 21 38 43

est 9.4 L.C.Ob.

LV = 11.5

Passing clouds at times.

1	46	C
—	22	B
—	19	V
—	1	W₀

Thurs. Nov. 1, 1917

12" Polar

SS Cygni 213843

6 25 (9.4) 4, (9.6) 6, 2 (10.0) L.C. Ob.

L.V. = 12.5

9.6 seems to be about = to a 9.1 or 9.2 tonight

R Cygni 19 34 49

22 34

3 51

8:00 Est 8.6 D.W.B.

R Delphini. 20 10 08

8:05 Est. 8.5 D.W.B

8:13 U Cygni 20 16 47

Est. 9.3 D.W.B

8:27 S Lacertae 22 24 39

Est 10.1 D.W.B.

SS Cygni. 21 3843

8:38 Est 9.6 D.W.B

R Vulpeculae 20 59 23

1	1	C
5	5	B
—	—	V
—	—	W.

Fri. Nov. 2 – 1917

12" Polar

6 56 SS Cygni 213843 est 10.0 L.C.

SX Cygni 201130
2^h 30^m 31.8°
est 10.0 m.v. 22 41

R Cygni 193449
est 8.6 m.v. 22 45 –

SS Cygni 213843
2335
est 10.1

20 16 47
23 45 –

U. Cygni 201647
est 9.5 – m.v.

R Delphini 201008
0009

1 2 C
– 5 β
4 4 V
– – Wo

Sat. Nov. 3, 1917

12" Polar

7 00 Cleared suddenly.

7 05 SS Cygni 213843 est 10.4 L.C.Obs.

L.V. = 12.4

1	3
—	5
—	4
—	—

Sun. Nov. 4, 1917

12" Polar

9 55 SS Cyg. 213843

est 10.6 L.C.A.

L.V. >12.5

1	4	c
—	5	B
—	4	V
—	—	wo

Mon Nov. 5 – 1917

12" Polar

6 03 SS Cygni 213843 est 11.0 L.C.Obs

LV = 12.5

7:00 R Cygni 193449 Est 8.8 D.W.B.

7:25 R Delphini 201008 Est 8.6 D.W.B.

7:30 U Cygni 201647 Est 9.3 D.W.B

7:40 S Lacertae 222439 Est 10.1 D.W.B.

7:45 SS Cygni. 213843 Est. 10.8 D.W.B

8:20 SX Cygni 201130 Est 11.0 D.W.B.

8:45 R Vulpeculae 205923 Est 8.7 D.W.B.

8:57 RW. Pegasi 225914 Est 11.6? D.W.B.

9:20 V Cassiopeiae 230759 Est 10.2 D.W.B.

9:37 ST. Andromedae 233335 Est 10.8 D.W.B

~~R Pegasi 230110~~

1 5 – C

10 15 – B

4 V4

— — wo

Wed. Nov. 7th, 1917

12" Polar

Telescope lens was taken out and cleaned yesterday.

7:24 SS Cygni 213843 est. 11.5 LC Ob.

Telescope is considerably improved by cleaning the lens.

RU. Andr 013238 est 12.3 LC Ob.
2249
2,43 +38.0 L.V. = 13.3

Y Andr 013338 est = 13.2 LC Ob

7:35 RZ Per 012350 est. 12.8 LC Ob
LV = 13.3

SX Cygni 20 11 30.8
est 11.9 MHV

~~SS Cygni~~
RW Pegasi 225914
11.7 MHV.

Z Andromedae 232848
est 8.8 MHV.

SS Cygni 213843
est 11.4 MHV.

Wed Nov 7, 1917

V Cassiopeia 23 07 5 9
est 10.1 m.H.V.

ST Andromedae 23 3 3.3 5.2
10.7 .. m.H.V.

R Pegasi 23 01 10 11.0
est 12.2 m.H.V.

20 40
2 20
23 00

4 9 C
— 15 B L
7 11 V
— — Wo

Thur. Nov. 8, 1917

12" Polar

6 07 SS Cygni 213843 est 11.5 L.C.B.
L.V. 13.3 ±

Comp pts to the Var. easily seen.

7:20 R Cygni 193449 8.9 Est D.W.B.

7:30 R Delphini 201008 Est 8.5 D.W.B.

7:35 U Cygni 201647. Est 9.3 D.W.B.

8:05 S.S. Cygni 213843 Est 11.4 D.W.B.

8:15 R Vulpeculae 205923 Est. 8.7 D.W.B

8:25 S Lacertae 222439 Est. 10.3 D.W.B

9:10 SX Cygni 201130 Est 11.5? Hazy D.W.B

V Cassiopeiae 230759

9:20 — Too hazy to continue.

1	10	LC
7	22	B
—	11	V
—	—	Wo

Chart for o Ceti.

Fri. Nov. 9 – 1917.

F   12" Polar

6 28 SS Cygni 213843 est 11.4   L.C.B.

LV = 13.2

1	11	LC
—	22	B
—	11	V
—	—	wo

Sat. Nov. 10, 1917

12" Polar.

SS Cygni 213843

				Resid.
5 37	est	11.2	L. Campbell	0
	est	11.0	T.C.H. Bouton	2
	est	11.1	Spinney	1
	est	11.5	Mr. Burbeck	3
	est	11.6	Mr. Reardon	4
	est	10.9	McColl	3
	(est	10.4	Mr. Delmhorst	? Prob. misidentified. L.C.)
	est	11.1	Miss Read	1
6 00	est	11.0	Mrs Brewster	2
	est	11.4	Miss Block	2
	est	11.5	Mr. Jordan	3
6 10	est	11.1	Mr. Pickering D.B.	1
	est	11.2	Miss Vann	0
6 14	est	11.2	Miss Young	0
	est	11.3	Mr. Hunter	1
	est	11.2	Mr Duchame	0
6 20	est	11.0	Mr. Crane	2
	est	11.2	Mr. Olcott	0

17)25

Mean of 17 ests = 11.21

a.D. ± .15

1 | 12 LC
1 | 23 B
1 | 12 V
— | – wo

Mon. Nov. 12 - 1917

~~L.C. Obs.~~ 12" Polar

6 33 SS Cygni 213843 est 11.3 L.C. Obs.
MHV = 11.3

R Pegasi 230110

S T Andromedae 233335
10.8 ? very faint hazy

R.W Pegasi 225914
11.8

V Cassiopeiae
10.2 230759

9.00 Too hazy to get dependable estimate

1	13	L.C.	L
—	23	B	
3	15	V	
—	—	Wo	

2546

Tues Nov. 13, 1917

12" Polar.

R Pegasi 230110

8:24 Est 10.0 DWB.

7:55 R Cygni (to correct clock - Clock 3 m slow)
19349

8:03 Est 8.6 D.W.B.

8:35 SS Cygni 213843 Est. 11.3 D.W.B.

8:42 R Delphini 201008 Est 8.7 D.W.B

8:45 W Cygni 201647 Est. 9.1 D.W.B

9:00 R Vulpeculae 205923 Est 9.8 D.W.B.

9:09 ST Cygni 201130 Est 11.4 D.W.B

9:22 S Lacertae 222439 Est 10.5 D.W.B.

9:34 V Cassiopeiae 230759 Est 10.2 D.W.B.

9:40 RW Pegasi 225914 Est 11.9 D.W.B

9:54 Z Andromedae 232848 Est 8.7 D.W.B

10:02 ST Andromedae 233335 Est 10.8 D.W.B

Nov. 13, 1917

12" Polar

L. C. Obs.

10 20 SS Cygni 213843 est 11.1

T And. 001726 est 12.2

T Cas 001755 est 8.7, R 7

R And 001838 est 10.4 R 5

S Ceti 001909 est 11.4 R 3

RW And 004132 est 9.7 R 3

W Cassiop 004958 est 10.0 R 7

RX And 005840 est 11.4 R 2

Z Ceti ~~00~~ 010102 est 11.7 R 0

U And 010940 est 11.3 R 3

U Pisc 011712 est 12.2 R 3

R Pisc 012502 est 11.3 R 3

U Per 015354 est 8.6 R 5

R Arietis 021024 est 9.7 R 3

Nov. 13 - 1917

W Andr 021143a est 12.9

11 00 S Persei 021558 est 9.3 R 4

R Ceti 022000 est 8.9 R 3

RR Per 022150 est 9.8 R 4

U Ceti 022813 est 9.1 R 4

R Triang 023133 est 8.8 R ~~4~~ 5

X Ceti 031401 est ~~4~~ 91 R 3

W Tauri 042215 est 11.7 R 3

RX Tauri 043208 est 9.1 R 2

R Leporis 045514 est 8.7 R 10

T Leporis 050022 est 10.8 R 3

R Aurigae 050953 est 8.1 R 7

S Aurigae 052034 est 9.0 R 8

W Aurigae 052036 est 8.7 R 3

S Orionis 052404 est 10.1 R 6

Nov. 13, 1917

T Orion 053005a est 11.2 R 1

T fainter than usual.
& I have never seen Neb. better
than tonight in this telescope.

U Aurigae 053531 est 8.8 R 5—

SU Tauri 054319 est 9.7 R 2

RR Tauri 053326 est 11.4 R 3

U Orion 054920 est 11.2 R 5—

Z Aurigae 055353 est 11.5 R 4

RR Orion 055716 est a 3, 3 ~~f~~

X Aurigae 060450 est 11.0 R 3
3 37
2 27

V Aurigae 061647 est 9.1 R 6
3.40
2 36

V Monoc 061702 est 6.8 R 6

(2 60 R Monoc 063308 est 11.5
03 46
2 47 2

Nov. 13, 1917

S Lyncis 063558 est 12.1

X ~~Monoc~~ Gemin 064030 est 9.6 R 3

W Monoc 064707 est 9.8 R 6

Y Monoc 065111 est 10.6 R 4

X Monoc 065208 est 8.8 R 5

13 00 RS Gemin 065530 est 10.2 R 4

R Leonis 094211 est 8.8 R 7

Eunomia thought to be where predicted but I need another chart to make sure of identification

V Can Min 070109 est 10.0 R 3

R Gemin 070122a est 7.6 R 5

V Gemin 071713 Est 9.2 R 5

S Can Min 072708 est 7.8 R 4

T Can Min 072811 est 11.7 R 4

U Can Min 073508 est 12.0 R 3

Nov. 13 – 1917

S Gemin 073723 est 13.0

T Gemin 074323 est 13.5

13 52 U Gemin 074922 est <13.6

W Puppis 075612 est <13.5

14 00 Z Puppis 072820 est 10.7 R5

58	71	LC
12	35	β
—	15	V
—	—	Wo

Wed Nov 14, 1917

12" Polar

6 45 SS Cygni 213843 est 11.3 L.C.
6 55 est 11.3 M.A. Hawes
est. 11.4 D.W.B.

7.25 SS Cygni 213843
est 11.3 M.A.H.

SX Cygni 201130
11.4 M.A.H.

U Cygni 201647
8.6 M.A.H.

R Cygni 193449
8.5 ? M.H.V. Hazy in region of star.

R Delphini 201008
8.6 M.A.H.

R Vulpeculae 205923
9.0 M.A.H.

S Lacertae 222439
10.3 M.A.H.

V Cassiopeiae 230759
10.2 M.H.V.

Wed. Nov 14 1917

R W Pegasi 225914
12.0 m.H.V.

Z Andromedae 232848
8.8 m.H.V
0 45
2[illegible] 43

S.T. Andromedae 233335 —
110
10.7 m.H.V.

R Pegasi 230110
9.9 m.H.V.

930

17 1) U Gemi 074922 est <13.7 LC.

2	>3	LC	L
1	36	B	
12	27	V	
—	—	W	
1	1	Hawes	

Thurs Nov: 16, 1917.

L.C.Ob. 12" Polar

6:53

SS Cygni 213843 est 11.4
L.C.Ob.

RY Herc 175519 est 10.1
~~T Herc 180531~~ R 3

T Herc 180531 est 7.6
R 4

TV Herc 181031 est
3 4 4 α

SV Herc 182224 est 10.7
R 4

RY Lyrae 184134 est = 9.2
R 3

U Lyrae 191637 est 9.8
R 8

RT Cygni 194048 est 8.6
R 3

TU Cygni 194348 est 12.9

S Aquil 200715a est 9.9
R 5

RS Cygni 200938 est 8.8
R 8

Nov. 16, 1917.

LC Obs 12" Polar

7.30 W X Cygni 201437 b est 10.7
R 5

8.55 index to left o Ceti 021403 photo R.

9:56:56 ~~52.4~~
~~58.8~~ ~~6.4~~
231.3
241.2 9.9
51.2 8.6
59.8 18.5 –

232.2
240.9 8.7
57.2 7.6
58.8 16.3

index to right

~~113.3~~
~~158.4~~ ~~5.1~~
317.4 14.4
331.8 16.8
136.4 31.2
153.2

323.1
331.8 8.7
138.8 14.4
9:05:04 153.2 23.1

Rejected as eyepiece
and micr. friction found
to be out of adjustment.
see next page.

Nov. 16, 1917.

o Ceti

I

	index to right		
9:07:35	216.8		
	229.8	11.0	
	39.2	13.9	
	53.1	24.9	− 4.81
	~~19~~ 218.8		− 486
	232.8	14.0	
	39.8	10.3	
	50.1	24.3	− 486
	index to left		Mean = 5.23
	131.4		9.19
	139.8	8.4	magn = 3.96
	312.3	7.6	
	319.9	16.0	− 578
	131.2		5.62
	141.9	10.7	
	311.7	7.7	
9:13:36	319.4	18.4	− 5.47

9 10 36

21549.

setts.

16 16 Pe

ests

12	85	Pe.
—	36	β
—	27	V
—	—	Wo
—	1	Hawes
—		

Sat. Nov-17-1917

12" Polar

L.C.Ob.

6 55 SS Cygni 213843 ~~est~~ 11.7
est 11.6 m.H.V.

F.V. 13.5±

Clearest night & best seeing that we have had for a long time!

RW Andromedae 004132
est 9.8 M.H.V.

V Cassiopeiae est 10.4 m.H.V
230759

R U Andromedae

1	86	C
—	36	B
3	30	V
—	—	Ws
—	1	Hours

Mon Nov. 19, 1917

12" Polar

6 35	V Cassiop	230759	est	10.5	M.A.H.
	— —	—	—	10.6	L.C.
6 38	SS Cygni	213843	est	11.5	L.C.
				11.4	M.A.H.

Hazy & thinly cloudy in this region

2	88	C
—	36	B
—	30	V
—	—	WO
2	3	HW

Sat Nov. 24, 1917

12" Blar

L.C. Ob — J. S. Wilson Rec.

6 50 ~~6:40~~	S S Cygni	213843		11.6
	L V			12.7

Moon somewhat bright; sky somewhat cloudy.

	R.U. Lyrae	190941		10.4 R = 4
	R.S. Lyrae	190933		11.3 R - 3
7:00	R.T. Cygni	194048 ~~190048~~		7.7 R - 5
	T.U. Cygni	194348	est.	12.7

observation difficult on account of faintness

	Z Cygni	195849		Var. = star a
	S Cygni	200357	est.	12.4
	S.X. Cygni	201130	—	12.4~~[illegible]~~ R = 4
	W X Cygni	201437b	—	10.3 ~~[illegible]~~ R = 7
	S Delph.	203816		

clouds in this region

	V Cygni	203847		9.4 R - 8
	R Z Cygni	204846	est (?) from memory only	

Suspected variable equals 11.0

	Z Cassiop	233956	est	9.4 R 5

Troubled by clouds.

Nov. 24, 1917.

T. Androm. 001726

too near moon and
too much cloud.

7:45 Too much cloud and moon-light
to continue with advantage.

12	100	AC.
—	36	B
—	30	V.
—	—	wo
—	3	HW

Mon. Nov. 26 – 1917

12" Polar.

6 23	SS Cygni	213843	est	11.5	lC.
S.T. 26 30 E.T. 10 00	T Cassiopeiae	00 17.55	est	9.3	M.A.H.
Sid 23.06	R Delphini	201008	est	8.7	M.A.H.
				87	lC.
Sid 24 00	R Pegasi	230110	est	0.2 > α	M.A.H.
			est	α 0 var	lC
E.T. 6:40 ~~S.S. Cygni~~	S.S. Cygni	213843	est	11.6	M.A.H.

3	103	lC	Q
–	36	β	
–	30	γ	N
	–	wo	
4	7	Htw	

Tues. Nov. 27, 1917

12" Polar

5:30	SS Cygni	213843	est. 11.6	M.a.H.
6 01	—	—	— 11.4	L.C.
	R Delphini	201008	est. 8.8	M.a.H.
	T Cassiopeiae	001755	est. 9.5	M.a.H.
6 30±	R Pegasi	230110	est 10.0	M.a.H.

1	104	L.C.
—	36	B.
—	30	~~[illegible]~~ V
—	—	Wo
4	11	Hw

Sun. Dec 2, 1917

12" Polar

L.C.Obs.

7 08 SS Cygni 213843 est 11.5—
L.V. 13.2±

R Delph 201008 est 9.4 L.V = 13.3

U Cygni 201647 est 9.4 R 7

R Vulpec 203923 est 10.9 R 3

S Lacertae 222439 est 11.8

R Pegasi 230110 est 9.7

RW Peg 225914 est 12.7

V Cassiop 230759 est 11.0

Z And 232848 est 8.7

ST And 233335 est 10.7 R 6

T And 001726 est 11.4

T Cass 001755 est 10.0 R 7

R And 001838 est 10.9

7 48 RW And 004132 est 10.1

Dec. 2 - 1917 . L C Elb

Y And 013338 est 13.2 diff

RW And 013238 est 13.3 diff

U Persei 015354 est 8.9

R Arietis 021024 est 10.6

R Triang 023133 est 9.2

Doy X Ceti 031401 est 9.5

W Pegasi 231425 est 11.7

S Pegasi 231508 est 9.5

R Aquarii 233815 est 8.0 R 4

Z Cass 233956 est 9.7 R 4

RR Cass 235053 est 11.2 R 4

R Cass 235350 est 12.9

Z Pegasi 235525 est 9.5 R 4

Dec. 2, 1917

ZRCk.

S Ceti 001909 est 12.5

W Cass 004958 est 9.8

the 101 (Boulton map) = 10.2

9 00 RX And 005840 est 12.6

31 — 31 L.C.

B

V

Wo

Hw

L

2156

Mon Dec. 3, 1917

12" Polar

5:30 SS Cygni 213843 est 11.6 m.a.H.

ST Androm 233335a est 10.1 m.a.H.

W Cygni 201647 est 8.3 m.a.H.

S Lacertae 222439 est 11.2 m.a.H.
R Pegasi 230110 est 9.8 m.a.H

V Cassiopeiae 230759 est 11.0 m.a.H.

Z Androm. 232848 est 8.6 m.a.H.

T Androm. 001726.4 est 11.4 m.a.H.

R Androm. 001838 est 10.2 m.a.H.

R Arietis 0.21024.6 est 11.8 m.a.H.
9.15 est 11.0 m.H.V.

216
9:35 RU Androm 013238
<12.1 barely visible M.H.V.

205
10.10 RW Andromedae 004132
est 9.7 P. M.H.V.

—	31	Pl
+	—	B
3	3	V
—	—	Wo
10	10	Har

21569

~~Wed~~ Thurs. Dec. ~~5~~ 6, 1917

12" Polar

6:00	SS Cygni	213843	est	11.7	M.A.H.
				11.7	D.W.B.
	T Cassiopeiae	001755.2	est.	9.6	M.A.H.
			"	9.2?	D.W.B. Hazy

–	31	Re
2	2	B
–	3	V
–	–	Wc
2	12	Hw

2157°

Friday Dec 7 1917

12" Polar

5:30 SS Cygni 2250
213843
est 11.5 mHV. 11.5 PC 8:00

5:40 RW Pegasi 23
225914
<12,1 , 12,6 no R.W barely seen

6:00 V Cassiopeiae 230759 11,2 mHV,

6:10 Z Andromedae 232848 8.5 mHV.

6:30 T Cassiopeiae 001755 9.2 mHV

8:00 T Andromedae 001726
11.2 mHV.
est 11.2 PC

8:20 R.W. Andromedae 004132
est 9.8 mHV.

8:30 R Arietis 021024 est 11.0 mHV

8:53 U Persei 015254 est 9.5 mHV.

9.07 X Ceti 031401 est 9.6 mHV.

9:30 R Trianguli 0231.33 est 9.9 mHV.

9:38 U Cassiopeiae 004047
est 11.1 mHV.

21.57°

Fri Dec 7, 1917

9:54 R.X Andromedae 005840 est 10.5 m.t.H.U.

10.05 R Z Persei 012350 ns < 11.8

~~U Ceti 022813~~

10.25 RX Tauri 043208 est 10.8 m.t.H.U.

10.30 W Tauri 042215 est 12.2 m.t.H.U.

10.40 T Orionis 053005 est 11.7?

~~S Orionis 052404~~

10:55 R Leporis 0455-14 est 8.6 m.t.H.U.

2 33 RC
— 2 B
18 21 V
— — Wo
— 12 Hw

L

2573

Monday, Dec. 10, 1917

12" Polar

5:45	S S Cygni	213843	est	8.7	M.a.H.
633	—	—	—	8.7	L.C.
	S T Androm.	233335.2	est	9.1	M.a.H.
6:00	W Cygni	201647	est	8.5	M.a.H.
	T Cassiop	001755.2	est	9.3	M.a.H.
630	V Cassiop.	230759	est	11.8	M.a.H.
	—	—	—	11.9	L.C.
6:45	R Pegasi	230110	est	8.6	M.a.H.
	S Lacertae	222439	est	12.0	M.a.H.
7:20	Z Androm.	232848	est	8.6	M.a.H
8:30	S S Cygni,	213843	est.	8.8	D.W.B.
8:50	R.W. Pegasi	225914	est.	12.0	D.W.B.
9:45	S T Andromedae	233335	Est.	10.3	D.W.B.

2	35	L.C.
~~4~~ 3	5	B
- ~~33~~	21	V
8 -	20	HW

Tues, Dec 11, 1917

21574

12" Polar

5.20 S S Cygni 213843 est 8.8 M.A.H.

R Cygni 193449 est > 5.1 ?
5:30 RT Cygni 194048 est 8.0 M.A.H

5:45 R Vulpeculae 205923.4 est 11.5 M.A.H.
" " est 11.6 D.W.B.
R Delphini 201008.8 est 9.2 M.A.H.
" " " 8.9 D.W.B.
R Androm. 001838 est 11.2 M.A.H.
11.3 D.W.B.

7:15 RU Androm. 013238 est 12.8 M.A.H.
" 12.8 D.W.B.

L. C. Observer from here on.

10 10 RR Tauri ~~05~~ 3326 est 11.2, R 3
03 88
1.47 E

U Orionis 054920 est 11.7, R 6

Z Aurigae 055353 est 9.0

X Aurigae 060450 est 11.9

V Aurigae 061647

10 40 SS Aurigae 060547 <13.4

Dec. 11, 1917

V Monoc 061702 est 7.7

U Lyncis 063159 est 8.9

R Monoc 063308 est 12.0

S Lyncis 063558 est 13.3

X Gem 064030 est 8.9

W Monoc 064707 est 9.9 R 7

Y Mon 065111 est 10.2

11 11 U Ceti 022813 est 10.2 L.C.

102 M.H.V.

V Canis Minoris 070109 est 11.9 M.H.V.

R Geminorum 070122 est 7.6 M.H.V.

R.R Monocerotis 071201

13	48	L.C.
4	9	B
3	24	V
6	26	HW

21577 Friday, Dec. 14, 1917

12" Polar

5:45	S S Cygni	213843	est.	9.3	D.W.B.
	— " —	213843	"	9.6	M.A.H.
	R Cygni	193449	est	9.7	M.A.H.
	— " —	— " —	— " —	9.8	D.W.B.

1	48	C
2	71	B
1	24	V
2	28	Hw

21578

Sat. Dec. 15, 1917

12" Polar

L. C. Cb.

9 45 060547 SS Aurigae est 13.2

005840 RX Androm est 12.2

004047 ~~*~~ U Cass est 10.4

012350 RZ Per est <13.2

031401 X Ceti est 9.7

232848 Z And est 8.3

10 00 233335 ST And est 10.3

042215 W Tauri est 12.8

043208 RX Tauri est 10.4

045514 R Lepor est 8.2 R 10

050953 R Aurigae est 8.5 R 7

052404 S Orion est 9.9 R 6

053005a T Orion est 11.3

074922 U Gemi est <13.2

Dec 15 – 1917.

L.C.Ch.

070109 V Can Mi est 10.0 ?

070122a R Gemi est ~~7.3~~ = 8.2
070122c – Gemi est 8.5
070122f Z Gemi est 12.6

V Cancri 081617 est 12.2

V Gemi 071713 est 7.8

S Can Mi 072708 est 8.4

T Can Mi 072811 est 12.9

U Can Mi 073508 est 10.8

R Cancri 081112 est 10.1

10 40 R Ceti 022000 est 12.3

25 – 13 C
– 11 B
– 24 V
– 28 Hw

L

Mon. Dec. 17, 1917

12" Polar

5:20	S S Cygni	213843	est	11.0	M.A.H.
				10.9	D.W.B.

—	73	C
/	12	B
—	24	V
/	29	Hw

Copied throughout

Feb. 18, 1918 R