KG
11365
765

Observations of Variable Stars

1912

To June 5-1914

KG11365 ,765

Harvard College Observatory,
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KG 11365.765

Friday July 19 1912

5-31

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E.J. // R. Centauri ~~est~~ ~~6.5~~ ~~6"6.2, 6.33~~ var 1 ✓

850

R Triang. Austr est var

Sedgued to Shew @/:

9964 Monday July 15 1912

7 G.

R Centauri 1 est 6.4 HP.

9 58 ✓ 6.5 LC.

9 50 R. Triang. Austr. est a2, b1, 2c HP.

✓ a3, b2, 2c LC

No~~t at~~ of Schurig chart

7.9.

	~~W~~. R. Centauri		est 6.4	
8 40				
	R Triang Aust		est 7.5	✓
8 42				

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Friday July 19th 1912.

(JD 9603)

13" Finder. =8"

Observer LC. Watch "B."
Recorder. GV.

16 23 ~~37~~ 19	Y Scorpii	✓	Est. 11.8
7 13			15 12. 1.08 E. −19.2
16 43 19	RR Ophiuchi.	✓	Est. 13.0 15 15 1 29 E. −19.8
16 48 44	RS. Scorpii	✓	Est. N5, 39 15 26. 1 25 E. −45.2
~~15~~ 16 56 36	RT Scorpii	✓	Est. 12.6 15 31 1 27 E −37.1

Friday July 19th 1912, Continued.

16 50 30 R R. Scorpii. ✓

Est. 10·8

15 37.
1 14 E.
−30·8

17 08 33 RW Scorpii. ✓

Est. 11·9

15 39
1 30 E.
−33·9

17 ~~35~~ 35 43. RU Scorpii ✓

Est. 12·7

15. 45
1 52 E.
− 44·1

17 41 35 S.F. Scorpii. ✓

Est. 11,3 m

15 47
1 55 E.
−36·2

17 45 51 U Arae. ✓

Est. f4.1g.

15 57
1 57 E.
− 52·2

Friday July 9th 18 1912 Cont.

	17 25 86	S. Octantis	✓	Est. m3, 2n 15 59 1 46 E. − 86.4
	17 41 62	W Pavonis	✓	Est. l3, 3m 16 02 1.41 E. − 67.3
8 05	18 03 63	R. Pavonis.	✓	Est. 12.3 16 04. 2 02 E. − 64.1
8 12.	17 53 27	Nova Sag II. Campbells provisional notation Nova extremely faint but thought to be certainly seen. mag ~ 13	✓	Est. 05, 20′ 16 11 1 44 E. − 28.1
15 12	O Ceti 021403 est 5.3		FEG ✓	✓

Friday July 19th 1912, Continued.

16 50 30 R R. Scorpii. ✓

Est. 10·8

15 37.
1 14 E.
−30·8

17 08 33 RV Scorpii. ✓

Est. 11·9

15 39
1 30 E.
−33·9

17 35 43. ✓ RU Scorpii ✓

Est. 12·7

15. 45
1 52 E.
− 44·1

17 41 35 S.V. Scorpii. ✓

Est. l1,3m

15 47
1 55 E.
−36·2

17 45 51 U Arae. ✓

Est. f14.1g.

15 57
1 57 E.
− 52·2

Friday July 18 9th 1912 Cont.

	17 25 86	S. Octantis	✓	Est. m3, 2n 15 59 1 46 E. −86.4
	17 41 62	W Pavonis	✓	Est. l3, 3m 16 02 1.41 E. −67.3
8 05	18 03 63	R. Pavonis.	✓	Est. 12.3 16 04. 2 02 E. −64.1
8 12.	17 53 27 Campbell's provisional notation Nova extremely faint but thought to be certainly seen. mag ~ 13	Nova Sag II.	✓	Est. 05, 20′ 16 11 1 44 E. −28.1
15 12	o Ceti est	021403 5.3	✓	✓

(2604)

Saturday July 20th 1912.

Obs. LC.

18 21 33. RT. Sagittarii 13" Finder Recd. GT. ✓

6 54

Est. 10·8
14 59
3 2?? K.
-34·0

18 54 37 S. Cor Aust.

✓

Est. S = 12·2
R = 12·0
T = 12·8
15 03
3 54 E.
-37·4

6 57

18 55 12 ST. Sagittarii

Est. 11·8
15 12

3 44 E.
-13·4

~~19 39 72. T. Pavonis~~

7 47 184205 R Scuti F.G. est 5,K

7 49 154428 R Coron F.G. est 6.4

8 40 140959 R Centauri F.G. est 6,6

8 41 RTriang Aust F.G. est a2,4c

L. for Ca[illegible]

Mon Sept 16, 1912

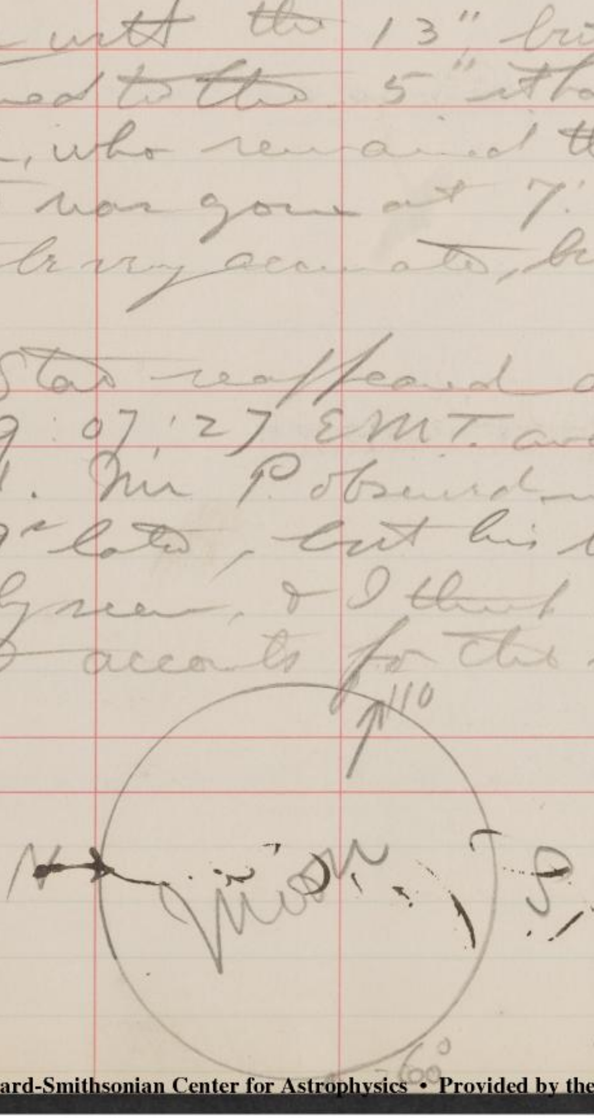
LC Obs.

At about 7 pm (Ave. M. Time) I noted that the moon was about to occult α, Scorpii in the 5" telescope

At 7:47 the star was near to limb of Moon but had not disappeared. I est. its P.A. as about ~~200~~ 100°; I then went to call Mr Peckham to observe same with the 13" but when I had returned to the 5" it had gone. The boy Angel, who remained there said the star was gone at 7:48±. This may not be very accurate, but fairly good.

The Star reappeared at P.A. ~~110~~ 250° at 9:07:27 EMT. and was very carefully noted. Mr P. observed in 13" and made it 29s later, but his limb was not clearly seen, & I think his inexperience partly accounts for the difference.

Appearance in telescope



L Campbell

Fri. Oct. 11, 1912

	Nova Gem II		~~5~~ 4	L.C. Obs.
13 51	+32.1433	6 N, N 5	+31.1442 est 7.7±	5"
13 55	+32.1433	7 N, N 5	+32.1442	F.G.

Nova well seen in F.G.

Wed. Nov. 20, 1912 9727

L.C. Obs.

R. T. Capricorni 20 11 21 S

H.A. Dec.

Est. 7.7

8" finder of 13" Boyden

S. T. 23 23

M. T. 7 15

3 15 W

-21.9

W. Capricorni 20 08 22 S

Est. > 11.5

not certainly seen

23 27

7 19

3 21 W

-22.8

R. U. Capricorni 20 26 22

Est. 10.9

23 31

7 23

3 07 W

-22.8

Z. Aquilae 20 09 06

Est. 11.4

23 35

7 27

3 29 W ✓

-7.0

R Capricorni 20 05 14

Est > 11.5

23 42

7 34

3 41 W

-15.1

9121.

Wednesday Nov 20 1912

Y Aquarii 20 39 05

Est >11.3

S.T. 23 45
M.T. 7 38 ✓

3 10 W
−5.8

W Aquarii 20 41 04

Est 9.7

23 48 ✓
7 40

3 09 W
−5.2

T Aquarii 20 44 05

Est. 8.6

23 50
7 42 ✓

3 08 W
−6.2

U. Capricorni 20 42 15

Est. >11.4

✓

3 15 W
−15.7

Y Capricorni 21 01 24

Est. 10.0

23 59 ✓
7 51

3 01 W
−24.8

Wednesday Nov. 20 1912

U. Microscopii 20 22 40

Est 13 n

S.T. 0 09
9.T. 8 01
✓
3 49 W
-41,3

R. Telescopii 20 07 47

Est. 11.1

0 16
8 08
✓
4 11 W
-47.7

S. Indi. 20 49 54

✓ .6

Est. 11.6

0 19
8 11
✓
3 34 W
-55.4

T. Pavonis 19 39 72

Est 9.5

0 25
8 17
✓
4 46 W
-72.5

T Octantis 20 57 82

Est > 11.4

0 34
8 26
✓
3 26 W
-81.8

9724.

Wednesday Nov. 20 1912

	R. Gruis	21 42 47		
				Est e 3 3f
			✓	
S. T.	0 38			2.59 W
M. T.	8 30			-47.7
	S. Pisc. Austr.	21 08 28		
				Est. n 1 Var
	0 43		✓	3 50 W
	8 35			-29.1
	S Pisc. Austr.	21 06 28		
				Est e 3 3f
	0 44		✓	3 50 W.
	8 36			-29.1
	U Aquarii	21 57 17		
				Est 11.5
	0 50		✓	2 56 W
	8 42			-17.5
	X Capricorni	21 02 21		
				Est. > 11.5
	0 54		✓	
	8 46			3 55 W
				-22.2

Wednesday Nov. 20 1912

Z Capricorni 21 05 16 ✓ Est 10.4

S.T. 0 57 3 55 W
M.T. 8 49 -17.0

T Capricorni 21 16 15 ✓ Est. > 11.4

0 59 3 45 W
8 51 -15.9

Y Capricorni 21 28 14 Est. > 11.4 ✓

1 03 3 37 W
8 55 -15.1

X Aquarii 22 13 21 ✓ Est ≥ 11.4

1 06 2 56 W
8 58 -22.0

R. T Aquarii 22 17 22 ✓ Est. 9.5

9 03
1 11 2 58 W
Moon too bright to continue further -23.8

9749.

Thurs Dec. 12, 1912

LC Obs

Nova Gem. II ✓

13 15 FR: Nova see and est. = e 2, 3 f

*s e & f are Wilsons on map in PA XX, 389

9804

Wed. Feb. 5, 1913

132422

13:30 R Hydrae 3 stars h. ✓ [illegible]
f 1 R

985f.

Sun. March 30, 1913

LC Cb

11 10 R Hydrae 132422 Est eye.
f 2.3 h

12 15 R Coronae 154428 est Fig 5.4

adj. of Polar axis See P. 9 XIX
p 560.

~~9903~~
9843

Tues April 15, 1913

5" telescope H. C. Obs.

22 30 No spots or faculae visible on the Sun.

98a9a.

Sat. April 19. 1913

LC

5-inch

22 0 No spots or faculae visible on Sun.

9880

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Tues. April 22, 1913

5–"

21 30 No Sun spots visible

9882.

Thur April 24. 1913

LC

Adj. Polar axis

at 11:50 δ Cent in centre – Dec = 50 3
HA 0:16 E

1203
at 1216 = 10^m W
Below centre ~~Too low~~

α Crucis
at 12 16 = 6^m E. Dec – 62.2
12 22 = 0
12 28 = 6^m W Below Centre
Turned axis trifle to East

i Cent.

12 43 = 0:35 E Decl = –36?
13 16
33
13 49 = 0 31 W Dec.

9883

Fri. April 25, 1913

L.C.

π Centauri

10 50   H.A. = 0 34 E   - 53.3

11 17   Meridian.

27

11 44   0 20 W

Too high. Moved W.

α Crucis

11 46   0 43 E   - 62.6

12 58   1 12

0 29 W

Trifle too high.

9902.

Wed. May 14, 1913

5 inch SCalb

21 20 No sun spots visible

9903

9903

Thurs May 15, 1913

13-inch finder

Z C Wb

S Pyxidis 090024 moon rather bright

8 37
3:27 w
-24.7
12 22

1200
3 0 w
est -25,0 <11.8

09 3014 X Hydrae 9 30 -14.

2 5 3 w
8 33
G.M.T. S.T. -14.2
12:18

12 10
2 40

9 24
12 14
2 50

est 11.6

092023 RR Hydrae 9 40 -23.6
12 25
2 45

2:51 w
-23.6
12:26

8 40 est 10.0

W Cancri 090425 est 9.3
12 27
3 23

8 51

3 38 w
+25.8
12:37

R Leonis 09x211 est 8.0
12 42
3 0 w

8 57

3, 6 w
+12.2
12:43

9903

May 15, 1913

V Leonis 095421 est <12.7 2 57 W
12 48 +21.8
2 54 W ✓ 12:46
9 00

RU Carinae 091365 est f 3,3 h
12 48 -65.8
3 35 -65.9 ↓ 3.51 W
9 ~~0~~ 11 12 57

RW Carinae 091868 est f 5,2 l
1308 -68.2
↓ 4:1 W
9 26 3 50 -68.2 13:12

R Carinae 092962 est ↓ 0
1319 3:56 W
3 50 W -62.4 -62.2
9 33 1319

V Velorum 092551 est h 3,3 k
-51.8
939 4:4 W
13 24

May 15, 1913

T Velorum 094953 l 5.20
13 25
3 36 −53.7 ✓
3 45 w
−53 5
9 43 13:29

l Carinae 094262 Too bright.

RR Carinae 095458 Est 7.6
13 30
3 36 w −58.4 ✓
3:42 w
−58.2
9 47 13 33
Var. red.

RV Carinae 095563 est l 3.3 n
3 ~~3~~50 w
9.53 ✓
−63.3
13:39

S Carinae 100661 est 9.0
3 43 w
9 56 ✓
−61.1
13:43

Z Carinae 101058 est c5, 2d
3 42 w
10 01 −57.2
✓
13:47

9903

May 15, 1913

W Velorum 101153 est σ 3 N
3.47 W
−5 38
13.52
10 06 ✓

RZ Carinae 103270 f 0, 3 g
1352
3 20 ✓
3.31 W
−7 0.2
13.56
10 10

RS Centauri 111661 est f 2, 3 g
1408
2 52
3.02 W
−6 1.2
14.12
10 25

RS Carinae 110361
1358
2 55 W ✓
n 5 N
3.2 W
−6 1.3
14 00
10 14

R Antilae 100537 Est 73
1415
4 10 W ✓
4 35 W
−3 7 2
14 35
10 49

May 15, 1913

094622 Y Hydrae

1436 / 4:50 W

est 7.0 ✓

+ 1055 Tel. moved before ~~setting~~ reading circles

104620 V Hydrae est 6.8

1446 / 4 00 W ✓

1100 -20.0 4:03 W 14 46

RS Hydrae 104628 est 12,2 m

1106 ✓ -28.1 4:11 W 14:52

X Centauri 114441 f 2,29

1111 1457 / 310 W ✓ 3 18 W -41.0 14:57

W Centauri 115058 est 13,2 m

1115 ✓ -58.4 3:17 W 15:01

C

9909

Wed. May 21, 1913

finder of 13 inch. C. C. Obs
Cer Rec

7.33 ~~22~~ R. Volantis 070772 m 5. ~~M~~ N //
11.25
4.18 W

-72.6
4.34 W
11.35

S. Volantis 073173 b4. ~~N~~ N
-73.0
7.37 ✓
4.17 W
11.40

W. Puppis 074241 a 0, 3 b, var. bright & red.
✓
-41.8
7.43 4.8 W
11.46

S. Puppis 074347, f.2, 5 g,
-47.8 ✓
4.15 W
11.50

Wed. May 21 1913.

R. Chamaleon 08 24 76 a2, 3d.
11. 52.
3.28 W

7.52. − 75.9.
3, 40 W
11. 56

W. Leonis. 10 48 14 Est 11.6 √
11 58 -
1.10.14 W

+ 14.2
8-01. Sky considerably covered with clouds. 1 20 W
12.04.

Moon bright
S. Leonis. 11 05 06 est 11.5 √
12 07

8.04

9910/

Thurs May 22, 1913
LeCB.

Y Lupi . 145254 ③ 3,4 Q.
1222
2,30 E -54.6 ✓

8.20

with finder 13" telescope
-54.9
2.16 E
12.37

S. Apodis. 145971 l4, M ✓
12.38
.2.21.

-72.0
8.34 2 13 E
12.50

R.T. Librae 150018. 8 est 10.4
12.50.
2:500 ✓

-18.8
8-~~20~~40 2.04 E
12.55

T Librae 150519 est 11.2

-19.8
8.42 2.6 E
12.58

Thursday May 22nd/13.

Y. Librae. 150605 est 12.6

-15.8
8.45 2.5 E
13 01.

S Librae 151520 est 9.5
13.02 -
~~34~~.1320 ✓

8.~~4~~9. -20.3
2.09E
13.06.

R. S Librae 151822 est 8.0
13.06
~~[illegible].12.22~~ ✓
2.1.2.

8.56 -23.2
2.06E
13.12

R. V. Librae. 152714 est 12.8
8.59. 13.13 -
2.14 ✓
-15.03
2.11 E
13.15

99¹⁰

Thursday May 22nd/13

X. Librae 1530.20 12.5

9.02 ✓ −21.3
2:11 E
13.19

U Librae 153620 12 6

9 07 ✓ −20.8
2:15 E
13:24

Z Librae 1540.20 est. 12.8

9.33 ✓ −21.02
1.51 E
1.49

R. Librae 154715 est 11.2

9.31 ✓ −16.02
− 2.00 E
1.48

Thursday May 22/13.

R. R. Librae 1550.18 S. est 9.2

−18.02
9.35 ✓ 1 59 E
1.51

R. Z. Scorpii 155823 est 10.2

✓ −24.04
9.37 2.05 E
1.53

Z. Scorpii 160021 S. est 10.0
9.47 13.56
2.04 ✓

−21.8
2.01 E
1.59

X Scorpii 160221 est 12.2.

−24.04
9.45 ✓ 2.01 E
14.01

9937

~~Thursday May 22nd~~/13

Fri. June 13, 1913

L.C. Obs.

~~F~~ Finder of 13-inch.

133926 CDM -26.9905 Algol Var. (Wood's)

13 ~~39~~ 40 -26.0 — -26 2
13 10 — 0:13 E
0 30 E — 13:24

~~est Var 3 a~~ a, b, β too bright to use
Region rather near Moon
7 45 but Var. easily found & evidently at normal brightness.
Sky Too bright to select or est. sequence
7 46 Est ~~a~~ d 3 Var, 2 ~~b~~ e — -22 4

R Scorpii 161122 est 10.7 ✓ — 2:20 E
1342 — 13 51
8:14 S Scorpii Est = 10.5 — 2 29 E

W Oph 161607 est 11.5 ✓ — 2:28 E
8 18 — -7. 2
13:55

V Oph 162112 est 8.8 ✓ — 2:22 E
8 21 — -12 1
13:58

June 13, 1913

8 26 ψ Scorpii 162319 Too ft to identify ✓

T Oph. 162815 est 11.7

8 55 ✓ 1.54 E
−15.7
14:32

S Oph. 162816 est <11.8

8 58 ✓ 1 51 E
−16.7
14:35

RR Oph 164319 est <11.8
14 38
21 5 E

9 01 ✓ 2:03 E
−18.8
14:38

SS Oph 165202 est <12.0

9 05 ✓ −2.8
2:9 E
14:42

9932

June 13, 1913

R Oph. 170215 est 12.2

2:16 E
- 15.6

9 08

14:45

RR Scorpii 165030 est

June 14, 1913 (Sat)

LC

7 10 Moon too near & bright with clds for Obs. of the algol Var. tonight.

9942

Mon. June 23, 1913 Bells

Finder of 13-inch

RS Carinae 110361 est n5 n

δ 04 1420 3 17 W ✓ −61.4 3 24 W 14 25 −61.7

RS Centauri 111661 −61.3 c 3,5 d

δ 06 ✓ 3 16 W 14 27 −61.7

S Carinae 100661 −61.1 Est 8.3

δ 13 ✓ 4:32 W −61.4 14:33

Z Carinae 101058 est e5, 2 g

δ 18 ✓ 4 34 W 14 39 −58.8

W Velorum 101153 est 9.5 n

δ 26 ✓ 14 14 4 39 W −56.3

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June 23, 1913

RZ Carinae 103270 est d 5, 1 d' 4 26 W
4 20W -70.2 -70.4
✓ 14:57
8 31

X Centauri 114441 est a 3, 3 b
3 16 W
1454
3 10W -41.4 ✓ 14 56
8 36
-41.5

W Centauri 115058 est m 3 n
3 15 W
15 00
8 41 ✓
-59.0

U Centauri 122858 est 9.6
2 42 W
15 05 ✓ 15:05
8 45 2 37W -54.4
-54.5

RV Centauri 133155 -55.8
1 47 W
1511
8 53 1 40 est b 2, 2 c 15 13
-56.2

99+2

June 23, 1913

T Centauri 133633 -33.3

est 7.2 ✓

9 00

1 38 w
15 20

-33.4

RT Centauri 134236 -36.6

est f 3.3 h ✓

9 03

1 45 w
15 23

-36.4

RX Centauri 134536

est x 5 V ast

9 06

1 45 w
15 26
-36 6

~~R Comae 115919~~

R Corvi 12,418 est 11.7

16 05
3 51 W -18.5

9 52

4 3 w
16 13

-19.0

RV Virg 130212 est <11.8 ✓

16 14
3 12 w

9 56

16 17
3 18 w

-12.9

June 23, 1913

R Hydrae 132422 est 8.2

3 0w

1618

16 20

9 59 254w ✓

−23.1

R Comae 115919 est 9.3 ✓

4 30w

16 21

16 28

1007 422w +19.0

+190

SU Virg. 120012 +12.6 est 10.5

✓ 4 35w

16 32

10 11

+126

T Virg 120905 est

1633

424w −6.0

Without sector band on telescope does not work very well, now.

1030 Band entirely off now

9956

~~Wed~~ Mon ~~Tue~~ July 7, 1913

			LC Clk.
	CDM − 26. 9903 —		
6 54	Pltg Not.	f 2, 2 g	18/3 0 38 W − 26.7
7 20		g 3, 2 h	
7 42		g 4, 0 h	
~~7~~8 07		h 2, 4 l	
8 22		h 4, 2 l	
8 45	p 4, 0 l ~~k l 0, m, 4 k~~		
9 16		l 5, 3 o	
9 53		p 4, 1 r, 4 s	Var much fainter.
10 09		p 5, r 1, 3 s	
10 29		p 4, r 0, 3 s	
10 56		p 1, 3 r, 5 s	
11 23		o 0, 2 p	

~~est of sequence~~

f 5 g 4 h 6 l h 4 l 3 r 2 o 6 p 5 r 3 s

Watch = 2^m.5 slow

Wed July 9, 1913

C Dra - 26.9905 LCOb.

7 08 d 2 Var. 5 e

Est of sequence

α 5 β 4 ~~δ~~ γ 8 a

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

l 4 n 2 o 5 p 5 h 3 q 3 s 5 t

7 30 Moon too near to est fainter stars.

Thurs July 10. 1913

CDM − 26.8805 algol Var
Swift der f 13 inch

6 47 n 3, 2 o

7 05 o 3, p 2, 2 n

7 20 o 5. p 4, 1 n

7 37 p 3, 2 n

7 55 p 5, o n, 3 n

8 10 p 4, 1 n, 3 n

8 27 o 2, p 1, 4 n
8 43 n 1, o o, 3 p

9 02 k 1, 2 l

9 18 m 3, 3 k
9 38 q 3, o h, 3 m

9 57 g 2, 3 m
10 26 g 0, 6 m
10 38 f 3, 2 g
m

Watch = 3.9 slow

9962

Sun July 13, 1913

Watch = 30s fast. L. C. Ob.

CDW – 26 990s Algol Var

7 13 g 3, 3 m moon bright.

7 48 g 1, 2h, 5m.

8 30 ~~e~~ 5, 2 g

9971

Tues July 22, 1913

744 RS Carinae 110361 ~~m7~~ n5 n ✓ −60.8 5:04 W 16:05 8
1559
456

RS Cent. 111661 est c2, 2d ✓ 4:55 W −61.8 16:07

W Cent. 115058 est h2, 2k ✓ 4 24 W −59.2 16 10
1610
420

X Centauri 114441 est a2, 4b ✓ 4 31 W 16 14 −41.8

U Cent. 122854 est 11.8 ✓ 3 54 W −54.4 16 19
1615
347 W

July 22, 1913

R Comae 113919 est 9.2? 4 33 W

16 29

8 15 4 30 W +19.2 ✓

16 36

~~Var~~ Region very low Ident. doubtful

SU Virg. 120012

Too low

T Virginis 120905 est 10.8

16 41 -5.8

4 32 W -5.2 ✓

16 49

4 42 W

R Corvi 121418 est 9.2

-19.2

✓

16 52

4 39 W

SS Virg. 122001 est. 7.8

16 54 4 36 W

4 34 +0.8

✓

16 55

9941

July 22, 1913

	122803 1705 437W	est -4.0	est 11.3 ✓	4 40 W -42 1707
	R Virg	~~est~~ 123307	est 9.7 ✓	4 42 W +7.3 1714
	U Virg.	124606 1718 4 32	est 8.0 ✓	4 35 W +5.8 1721
	RU Virg	124204	est 10.4	4 42 W ✓ +4.4 1722
921	RR Virg	135908)	est 13.3 ✓	3 45 W -9.3 1742

July 22, 1913

Z Bootis 140113 est 12.5

3 46 W

✓

+14.2
17 43.5

R Bootis 143227 est 8.9

17 47
3 1.5

3 20 W
+26.8

✓

17 50

RS Virg 142205 est 8.3

3 36 W

✓

+4.8

17 56

U Bootis 144918 est 11.0

17 59
3 10 W

3 13 W

✓

+17.7
18 00

S Serp 151714 est. 9.3

18 01
2 44 W

2 49 W

✓

+14.4
18 04

July 22, 1913

Z Virg 14 05 12 est <12.5 ✓

4 8 W
18 11
-13 2

V Librae 14 34 17. est <12.6 ✓

18 12
3 38 -17.5

-17 7
3 41 W
18 14

Moon well up & with hazy sky difficult to observe stars now

9972 Wed. July 23, 1913.

L.C.P.

Finder A 13 — with Boyden.

S Leonis 110506 <12.6 4 39 W

15 38 ✓ 15 43

7 11 4 33 W +6.0 +5.7

120012 S U Virg.

15 45

3 45 — Cannot identify ✓

RT Virg. 125705 est 88

15 55 3 25 W

7 57 16 20

+5.4

RV Virg 130212 est <12.5

1622 ✓ 3 23 W

3 20 W −1 30

16 24

V Virginis 132202 est 86

−3.1

8 14 3 5 W − 2.6 3 16 W

16 35 16 37

3 13

9972

July 23, 1913

R Hydrae 132422 est 8.8

-23.0
3:17 w
✓
16:40

S Virg. 132706 Est 12.8

16 45
3 18

✓
3 25 w
-7.8
16 50

T Cent. 133633 est 6.3

1652
3 16

✓
-33.6
3.19 w
16 54

RT Cent. 134236 est l 3, 3 n

✓
3:16 w
-36.8
16 57

R X Cent. 134536 ~~est~~

Est t 3 N

17 00
3:17 w
-36.6

July 23, 1913

RU Hydrae 140528 0.3 #9 — 1707 / 302 — -28.4 — -288 / 3:06 w / 17 10 / ⇒

RV Cent. 133155 est a 0.5 b — 1711 / 340 w -56.0 — -56.2 / 3:45 W ✓ / 17:13

~~R~~ T Apodis 134677 est k 3.0 k — 1716 / 330 w -77.9 ✓ — 3:39 w / -77.9 / 17:20

S Apodis 145971 est 7 n 5 n — 1721 / 222 w -72.0 — 2 29 w / -72 2 / 17 25

nothing seen in these positions

S Lupi 144646a < ~~13~~0 05 n

~~t~~ - Lupi 144646b < ~~13~~0 05 n

1726 / 240 -46.3 — 2:55 w / -46 ✓ / 17:40

99 4/2.

July 23, 1913

Y Lupi 145254 o 3 Var ✓
1742
2 50 − 54.9

2 54 w
− 55.0
17.44

R Triang Aust. 151066 at 7.4 ✓
1746
2 36

2 44 w
− 66.2
17.49

R Normae 152849 n 2,20
1750
2 22 − 49.5

✓ 2 28 w
− 49.7
17 55

T Normae 153654 o 2,2 p ✓
1756
2 20 w

2 23 w
− 54.7
17 57

R Lupi 154736 at 12.6
1757
2 11

✓ 2 26 w
36.2
1812

July 23, 1913

RS Scorpii 164844 n 3, 29

✓ 1 29 w
-45.5
18 16

RR Scorpii 165030 est 8.0

1 30 w
✓ -30.8
18 20

RT Scorpii 1656 36 est 8.7

1 29 w
✓ -36.8
18 25

RT Librae 150018 est 13.0

3 28 w
-18 2
✓ 18 28

T Librae 150519 est 12.2

3 27 w
-19.0
18 32

July 23, 1913

Y Librae 15 06 05 ∠13.4 ✓

3 31 w
-6 2
18 37

S Librae 15 15 20 est 11.0 ✓

18 40
3 25

3 27 w
-20.6
18 42

RS Librae 15 18 22 est 11.0 ✓

3 26 w
-228
18 44

RU Librae 15 27 14 est 11.7 ✓

18 45
3 18

3 20 w
-156
18 46

X Librae 15 30 20 est 13.0 ✓

3 21 w
-212
1850

997 3 ~~Thurs. July 24, 1913~~

LCM

Finder of 13 inch

120012 SU Virg.
1517
3 17 W +12.6 est 11.6 ✓
3 22 W
+125
15 20

U Octantis 131283 ✓ est p.5 M
1522
2 10 W −83.5
−84.2
2.36 W
15.34

7.10

S Octantis 172586 est f 2.5 k −86.4
1.55 E −87.0 ✓
2.18 E
15.42

R.U Oph. 172809 ✓
1543
1.45 E +09.0

R.U Scorpii 173543 est 13.3 −~~33.3~~ 43.3
1545
1.50 E −43.2 ✓
1.33 E.
16.05.

7 35
6 03
1 32
~~28~~

S.V. Scorpii 174135 est. [illegible]3. var
1552
1.49 E −35.7 ✓
−35.3
1.46 E
15.58

9973.

July 24 1913

U Arae 174557 l, 3m −57.3
16.06 ✓ 1.41 l.
1.39 E −57.3 16.08.

W. Pavonis 174162. 16 17
est l' 2, 2f 16.09 1.29 E
1.32 E −61.8 −62.2

R Pavonis 180363 est 11.9. −63.3
16 18 ✓ 1.46 E
1 45 16.22.

Nova Sag. II 175327 M.3 N
1623 −27.3
1.30 E −27.5 E 1.27 E
16 30.

R. V. Sagitt 182133 est 13.3
1631 −33.1
1.50 −33 E 1.50. E
8 10 6 16.35

S. T. Sagitt. 185512 est 11.6 −12.15
16.36 2.17 E
2.19 −12. 16 44

July 24 1913.

S. Coronæ Aust. 185437 — 37.0
16.42 — 2.10 E.
2.12 — 37 E 16.47.

S = 12.5
R = 12.8
T = 13.0

✓

R. Y. Sagitt. 191033 est 9.0 — 33.2
1648 — 2.22 E
2.22. — 33. ✓ 16.50.

T Sagitt. 191017 ✓ Est. 10.3
1653
2.17 — 17 E. — 17.0
2.16 E
16.57.

R. Sagitt. 191019
1657 ✓ Est. 7.4
2.13 — 19. E.
— 19.2.
2.13. E.
17.00.

R. W. Sagitt 190819 Est 10.4
R X. 190818 " 12.8
✓ — 18.8
2.08 E
17.03.

July 21st/13.

S. Sagitt 191819 ✓

Est. 13.0
— 19.0
2.11 E.
17.05

~~X~~ Z Sagitt. 191321 ✓

Est 13.0
— 21.0
2.08 E.
17.08

W ~~X~~ Aquilae 191007 ✓

Est 11.0
(var. star. d) 10.2
— 07.0
1.58 E
17.13

S. W. Sagitt. 191331 Est 32 n ✓

— 31.06
1.59 E
17. 17.

S Pavonis 194659 est 7. 2 ✓

1718
2 28

2 26 E
— 65 9 0

17 24

July 24 1913

T Pavonis 193972 est 10.0
1725
2 14 -72.0 ✓
2 17 ε
-72.0
1727

S Telescopii 195855 n' 3 N
1736
2 28 -55.8 ✓
2 28 ε
-55.7
17 34

– Telescopii 195656 n' 3 N

RU Sagitt. 195142 est 12.0
1736
2 15 -41.8 ✓
-41.8
2 17 ε
17 38

RR Sagitt. 194929 est 11.7
✓
2 11 ε
-29.2
17 41

R Telescopii ~~19~~ 200747 est 12.3.
1743
2 24 ε -46.6 ✓
2.20 b
-47.0
17 50.

July 24/13.

RT Sagitt.	201139 1752 2.19	Est. 10.1 -39. ~~Est.~~	✓	PC -39 2:12 E 17.56
~~E~~ Est 10.0 C.W.				
U Micros.	202240 1758 2.24 - 44	Est 13,1 m	✓	-40.04 2.24 E 18.01.
S Indi	204954	Est 13.3 -54.2.	✓	-54.2. 2.47 E 18.06.
T Octant.	205782 1807 2.50 - 82.0	Est 12.5	✓	-82.2 3.01. E 18.09.
R.~~T~~ R. ~~T~~ Aquilae	195202	Est. 12.2	✓	-1.08 1.40 E 18.15

July 24, 1913

RS Aquilai	$19_{\wedge}\overset{5}{3}08$	Est 10.0 RC Obs	— 7 δ
		Est 9.5 Cur. Obs.	1.34 Σ 18:42

99×14

Fri July 25, 1913

RY Sagitt 19 10 3 3 est 8.9
15 30
3 40 E

) 08

3 34 E
15 37
— 33.2

RZ Scorpii 15 58 2 3
15 42
16 E -23.0

Too high

R Oph 17 02 15 est 12.2
15 42
1 20

1 17 E
15 46
-15.4

R Capric 2005 14 est 12.6
15 48
4 17 E

-14.2
4 13 E
15 53

RT Capric 20 11 21 est 6.6
15 55
4 16 E

4 16 E
15 56

-21.6

July 25, 1913

W Capric 200822 est 12.0
✓
4 11 ε
15 59
-220

RU Capric 202622 est 130
1600
4 26 ε
✓
4 26 ε
16 02
-21.8

R Micros 203429 est k2,bl
1604
4 30 ε -290 ✓
4 28 ε
16 07
-288

U Capric 204215 est 13.3 vy ft.
1608
4 34 ε -15.0 ✓
4 33 ε
16 11
-148

RR Caper. 205627 est d3.2e
1641
4 15 ε -27.0 ✓
f. 2
4 11 ε
-27.2
1646

9974

July 25 1913

S Micros 212030 est b6.3f
1647
4 33 E -30.0 ✓

4 33 E
-30.1
16.49

R Equuis 214247 h5,1k
16 50
4 52 E -47.2 ✓

4 49 E
16 55
-47 2

T Capric 211615 est 13.2
16 56
4 20 E -15.1 ✓

-15.2
4.18 E
16 59

Y Capric 212814 est 12.8
17 00
4 28 E -14.0 ✓

-14.0
4 29 E
17 02

U Aquar. 215717 est 11.3
1703
✓ 4 56 E -~~17.2~~
16.6 ✓

-16.8
4 53 E
17 06

July 25, 1913

215628 S Pisc Aust s 3 Var ff.
215828 — Pisc Aust. s 3 Var ~~ff~~.
1707
4 51 Σ -28.8
✓
-26.2
4 48 Σ
17 11

210124 V Capric ~~est~~ 9.4
1713
3 48 Σ -24.3
✓
-24.0
3 43 Σ
17 19

X Capric 210221 ~~est~~ 13.3 Var very ff.
✓
-21.6
3 43 Σ
17 21

Z Capric 210516 est. 10.5
1724
3 41 Σ -16.0
✓
3 40 Σ
17 26

-16.2

R Pisc Aust. 221230 est. 10.0
1727
4 45 Σ -30.0 ✓
4 44 Σ
17 30

-29.9

July 25, 1913

X Aquarii 221321 est 10.5
17 31
4 42 - 21.0

-21.0
4 41 E
17 33

RT Aquar. 221722 est 9.3

-22.2
4 43 E
17 35

T Gruis. 221938 est b5, 2c

4 41 E
17 40
- 37.7

S Gruis 221948 est 13.3

4 38 E
17 44
- 48.7

S Aquarii 225120 est 8.2
17 45
5 06 E -20.6

5 3 E
17 49
-20.5

July 25, 1913

R Indi 222867 est 9.6 ✓

17 50
4 38

4 38 E
17 54
−67.5

T Tucanae 223462 est 02 2p ✓

17 54
4 40 E −61.6

9 30

4 38 E
18 00
−61.7

9945.

Sat. July 26, 1913

L. C. Clb

8 inch Finder of 13 inch Boyden.

7 18 RY Sag. 191033 est 8.9 ✓ 3 : 20 2
15 30 15 51
3 20 . 2 − 33.2

W Crucis 120658 est a1, 3c
15 53 3 56 W
7 25 3 47 W −58.7 ✓ 15 58
−58.6
~~61~~

a3 a4 c4 b2 d5 e

S Muscae 120769 est a2, 2f
−69.8
8 14 12 07
16 38 3 57W −69.8 ↓ 4 46 W
4 31W 16 47
a5 b.4 c5 d3 e4 f6 g 1604
3 57

SW Cent. 121249 est e2, 4f −49.6
1612
4 00 −49.9 ↓ 4 5 W
7 40 16 13

a5 b0 c2 d5 e6 f5 g2 h
h2 k3 l4 m5 n5 o3 p

SX Cent. 121546 est ~~[illegible]~~ d3, 2/f
4 26 W
8 04 −49.0 16 37
−49.0
α5 a5 b4 c5 d3 e2 f2 g.
g3 f' 6 h

July 26, 1913

R Muscae 12366f a 3, 3 ~~f~~ d

8 19. 12 30 −~~6~~8.0 ✓ −69.4

16 50 4 22 W

4 20 16 52

a 5 ~~f~~ d 4 ~~b~~ 5 ~~d~~ e 3 ~~f~~ e 4 f

R ~~Crucis~~ 121861 c 2, 2 d ✓

8 26 T Crucis 121561 d 2, 3 e ✓ 4.47 E

8 27 12 20 −63.2 17 00

16 55 −61.5

4 35 W a 5 b 4 c 5 d 5 e 5 f 6 g

99 1/8

Tues. July 29, 1913

finder f/13 - with Boyden. L.C.C.

S' T Carinae 101257 est b 7, 3 d 6.3 W
15 57 - 6 50
7 27 5 45 -59.5 16 07
~~4~~ c 5 a 3 f 4 d 5 f 5 e 4 g

RR Velorum 101741 ~~4~~ est a 3 g b.
-41.8 6.06 W
-42.2
7.34 16.16.

a 4 b, 5 c 5 d 2 e 5 f 3 g.

Y Carinae 102957
-58.2 est. ~~[illegible]~~ 6.05 W
7. ~~46~~ 51 a 5, 2 b -58.4
16.25

~~a 2 b, 5 c, 5 d 3 e, 6 f, 5 g.~~
a 7 b 5 c 4 d 3 e 5 f

u Carinae 105359
16 35 est a, 5 b. 6.00 W
8.05 5 42 -59.5 -59.6
α ~~[illegible]~~. a 6, b 3, c 4, d, 5 e, 3 f 16.45

S. T. Centauri 110537
est. a 4, 0 b 5.52 W
8.10 -52.4
a 4, b 4, c 5, d 3, e 4, f 16.50

July 29.1913

SU Cent. 110647 b 2, 0 c

17 03
6 : 4 w
-47.7

8 23 -47 3

a 5 b 2 c 3 d 5 e 3 f 3 g

SV Cent. 114360 5.41 W

17 05
5 22 w -60.5
est c 3, 0 b. -60.4
17.15.

8. 35

c 3 ~~[illegible]~~ b 6 d, 4 e, 3 f, 3 g e ε, 5 g, star a & d not necessary

S Crucis. 124857 observed with field-glass

8 51 → est c 3, 3 ~~d~~ b f.C. Ob.

9 01 c 4, 2 ~~d~~ b cur Ob

a 4, c 5, b 4, d 4, e 5, f

R Crucis 121861 a'' 3 a''' f.C. Ob. F.G.

9. 11 In field-glass b & d too close for observation. est

a 8, a' ~~4 c~~ 3 a'' 5 a''' 5 e 4, f 5 g.

T Crucis 121561 a b, 2 a'' f.C. Ob. F.G.

9. 12. R Muscae 123669 est ~~[illegible]~~ a 4 a F.G.

9 18 ~~a 5 d 3 c~~ a 5 d 5 b 3 c 5 e 4 f

no convenient star nearly brighter than a

9948

July 29, 1913.

U Librae 153620 ~~est.~~ Var not seen ~~with certainty~~.
18 06
2 36 w −21.2
18 16
2 40

9 39

2 49 w
18 18
−21.2

Z Librae 154020 est 13.4 very ft.
−21.0

2 47 w
18 21
−21.2

9 53 R Coronae 154428 est 5.9 LC [illegible]
est 5.8 GW. Obs [illegible]

R Librae 154715 est 13.5
18 34
2 47 w −16.8

9 57

18 37
2 58 w
−16.2

RR Librae 155018 est 11.0
2 57 w
18 40
−18.4

10 50

July 29, 1913.

Z Scorpii 160021 est 11.8

-21.8 ✓ 2:50 w
18 43
-21.8

X Scorpii 160221 ~~12~~ Est 12.0

-21.6 ✓ 2.49 w
18 45
-21.7

W Scorpii 160519 est. 9.3 n

-20.2 ✓ 2 48 w
18 47
-20.2

RX Scorpii 160524 est 12.4

✓ -25.2
2 50 w
18 49

R Scorpii 161122 a est. <13.6

-23.2 ✓ 2 46 w
-23.2

S Scorpii 161122 b est 11.7

18 51

July 29. 1913.

RR Oph	164319 est 11.7 1853 2 10	✓	18 54 2 17 w -19.7
T Oph	162815 est 13.0 1855 2 27 - 16.3	✓	2 35 w 18 56 -16 5
S Oph	162816 est 13.7 -17. 3	✓	2 40 w 19 01 -17 4

C

— 291

D 9981

Fri. August 1, 1913

8" Finder of 13" Boyden

LCAb.

RY Sagitt. 191033 est 8.8
1615
2 53 Σ
✓

2 55 Σ
16 16
−33.2

) 22

RY Oph 181103 est 12.2
✓

1 47 Σ
16 25
+3.8

T Serp. 182306 est 9.3
✓

1 57 Σ
16 27
+6.5

SV Herc 182224 est

Dome Cord of wheel.

X Oph 183308 est 8.8
1647
146 Σ
✓

1.44 Σ
16.50
+8.8

~~Jul~~ Aug. 1, 1913.

7 58 R Scuti 184205 est 6.0 F.G.

Nov. Aquilae No 2. 185604 N.S.
t 5 N

16 56
2 0 Σ -4.6

8 12

17 06
1 50 Σ
-4.6

R Aquilae 190108 est
17 11
1 50 Σ +8.

19 01
17 19
1 42

Can't identify.

RT Aquil 193311 est 11.0
17 23
2 10 Σ

+11.4
2 9 Σ
17 24

RV Aquil 193509 est <13.5

2 8 Σ
17 27

+9.5

Aug. 1, 1913.

X Aquilae 194604 est 9.4

✓ 2 17 E
17 29
+4.4

R Delph. 201008 est 13.0
17 30
2 40 E

✓ 2 38 E
17 32
+8.6

S Aquilae 200715 $\frac{a}{b}$ ~~est~~ 10.0

✓ 2 29 E

RW Aquilae 200815 b = est 10.2

+15.4
17 38

RU Aquilae 200812 est 9.5

✓ +12.8

2 23 E
17 46

V Sagitt 201520 est 11.5

✓ 2 21 E
17 55
+20.8

Aug 1, 1913.

S Y aquilae 200212 est 12.8
1757
2 05 E +12.6 ✓
2 3E
1800
+12.7

Z Delph. 2028() est <13.2
1802
2 26 E +17.0 ✓
2 26E
1802
+17.0

Y Delph 203611 est <13.5 ✓
2 32E
1804
+11.8

S Delph 203816 est 10.5 ✓
2 31E
18 08
+16.7

T Delph 20406 est 12.0 ✓
2 31E
18 10
+16.2

Aug. 1, 1913.

V Delph 204318 est <13.2

✓ 2 31 E
18 13
+189

X Delph 203817 est 13.0

2 35 E
+17.5 ✓ 18 16

Var? Sp of X = 12.8 ✓ +17.7

R Vulpec 205923 est 10.2

18 16
2 x3 ✓ +236

2 39 E
18 20

Z Aquilae 200906 est 13.2

18 52 ✓ 1 14 E
1 17 E -6.4 18 56
-6.3

Y Aquarii 203905 est <13.0

1 39 E
✓19 00
-48

Aug. 1, 1913

T Aquarii 204405 est 8.4

1422
✓ 1902
−5.3

W Aquarii 204104 <13.3

38
✓ 1904
−4.2

V Aquarii 204102 est 9.0

1 34
✓ 1908
+22

X Pegasi 211614 est 13.5
1909
2 07

2 5
✓ 1910
+14.2

V Pegasi 215605 est 10.0

2 42
✓ 1913
+58

Aug. 17, 1913

~~RR Peg. 214024~~

R Equulei 210812 est 10.8 | 1:50 E
1917 ✓ | 1919
1 51 E | +12.6

T Pegasi 220412 est 13.5
1920
2 44 E ✓ | 2 43 E
+12.5 | 1922
+12.4

Y Pegasi 220613 ~~est~~ <13.5
| 2 42 E
10 31 | 19 26

RS Pegasi 220714 est 12.0 ✓ | +14.4

RW Peg. 225914 est 12.6
1927 | 3 30 E
3 32 ✓ | 19 29
+15.0

RR Aquarii 210903 est 12.0
1930 | 1 36 E
~~4~~1 39 E ✓ | 19 34
~~+3~~
−3.0

Aug. 1, 1913.

RS Aquarii 210504 est 10

10 41 -4.2
1 30 E
19 36.

10 44 R Coronae 154428 est 5.8 F.G.

10 45 R Scuti 184205 est 5.7 Region F.G.
west of Meridian & easier to east.

10 47 R Muscae 123668 ~~above~~ F.G.
var 2 9

40-331

9982.

Sat. Aug. 2, 1913

L C Ob.

8" finder of 13" Boyden

CDM -26.9905 algol Var.

7 15 f 1, 4 g

16 14
2 40 W
-26.6

Somewhat hazy in this region but stars bright enough to observe well.

7 17 R Scuti (18420s) est 5.8 FLG.

✓

Hazy.

CDM -26.9905.

7 42 f 3, 1 g

8 30 g 1, 5 h

8 50 clds on region

9 1.2 g 2, 3 h hazy here.

9 53 Too low in cld for further Ob.

5 - 336

9984

Mon Aug. 4, 1913

L.C. Obs.

7 52 R Scuti 184205 F.G. est 5.7

7 53 R Coronae 154428 F.G. est 5.8

8" finder of Boyden

R Corvi. 121418 est 8.5
16.58
~~+7~~
4 44 w − 18.8

4 55 w
−192
17:05

? comet or Neb.
17 04
4 50 w
−18.7
= NGC 4361

RV Virginis 130212 est <13.2
17 09
4 7 w − 12.9

4 13 w
17 11
−13 1

V Virg. 132202 est 8.8

8 11

4 1 w
17 18
−3.4

R Hydrae 132422 est 9.5

4 1 w
17 21
−23.3

Aug 4, 191 3

S Virg 132706 est 12.6 ✓

4 1W
17 24
-7 2

RS Carinae 110361 est. n/β N
1726
6 23w -61.8 ✓

6 3KW
-61.8
17 32

RS Cent 111661 est ~~61.8~~
d3, 2f ✓

6 25W
-61.8
17 34

W Cent. 11505.8 e1, 3f
17 35
5 45 w -59.2 ✓

5.53 W
17 39
-59.2

U Cent. 122854 Est 13.0 ✓
1742
5 1*W -54.8

5 21W
17 43
-54.8

9984

Aug. 4, 1913.

T Centauri 13 36 33 est 6.4 fg,
1746
4 10 w - 39
✓

RX Cent. 13 45 36 est ~~4~~1 n ✓
1752
4 07 - 36.8

4 14 w
17 55
— 36 8

RT Cent. 13 42 36 est n 5,0 f ✓
4 28 w
17 58
— 36 8

RU Hyd. 14 05 28 n 3, 5 g ✓
1758
3 53 - 28.8

4 1 w
18 02
— 28 8

RV Cent. 13 31 55 est a 1, 4 f ✓
18 03
4 32 w - 56.2

4 44 w
18 10
— 56 6

Aug. 14, 1913.

γ Lupi. 145254 σ 5 Var.
Estd at 13.5
1812
3 20 w – 45.0
3 26 w
18 13

– 55.2

R Triang Austr. 151066
b 2,3c Not on Schwg.

R Normae 152849
1818
2 50 w – 49.6
2 58 w
– 49.6
Var. marked ← = a 2,6 f
18 22
Star marked ⊙ n f ← = p 3,5 s

T Normae 153654 σ 3,3 f
18 26
2 56 w
– 55.2

R Lupi. 154736 est 13.3
– 36.2
2 47 w
18 30
22 – 358
– 36.2

9985

Tues. Aug 5, 1913.

LCObs.

CDM -26° 9905 Aql Var.

8" finder of Boyden

~~6~~ 6 5~~3~~2 g 3,1 h

7 17 h 3,3 m

7 43 m 2,3 ~~k~~ l

8 08 l 3,3 o

8 22 l 5,1 o

8 37 p 2,5 r

8 53 p 5,0 r, 5 r

9 14 r 1,3 s

9 38 r 0,4 s

10 10 04, p ~~1~~2, 3 r Region low obs. diff.

5:46 w
-26.7
19 20

10 - 362

8

9988 Friday Aug ~~7~~ 1913

L.C. Obs.

8" Finder of Boyden

Com 26 9905 Algol Var.

6 42 p 2, 3 r

Moon quite near & obs. somewhat difficult

> 14 o 2, 2 p

> 38 o 0, 3 p

> 58 k 3, l 0, 4 o

8 20 m 4, 2 k

8 42 h 2, 2 m

9 07 g 2, 0 h

9 29 f 2, 0 g

10 00 f 0, 2 g Impossible to get more Obs.

RY Sagitt 191033 est 9.0

19 42

1° 20

0 37 4

−3 4 1

✓

10 − 3 > 2

9989/

Sat. Aug. 9, 1913

LCb

Finder of 13" Boyden.

RY Sag 191033 est 8.9 ✓

7 ~~45~~ 59   1718   1 52 E

1 46 E

17 23

−33.2

T Sagitt 191017 est 10.0 ✓

1723

7

−17.2

1 46 E

17 26

R Sagitt 191019 est 7.8 ✓

−19.2

8 04   1 42 E

17 28

RW Sag 190819 est 10.0 ✓

1 37 E

−18.8

17 31

RX Sag 190818 est 12.8 ✓

Aug 9, 1913.

S Sag. 191319 est < 13.0 ✓ 1 39 E
17 33
− 19.0

Z Sagitt 191321 est 11.2 ✓ 1 38 E
8 11 17 35
− 20 8

W Aquilae 191007 est 9.6
* d Var = 10.0 ✓ 1 30 E
− 7.0
17 39

SW Sagitt 191331 est n f Var ✓ 1 28 E
17 45
− 31 6

RR Sagitt 194929 est 11.7 ✓ 2 2 E
17 46
2 03 E
17 47
− 29.2

9989

Aug. 9, 1913

S Pavonis 194659 est 7.2

1 59E
17 52
-590

RU Sag. 195142 est 11.8

1 58E
17 54
-418

S Telescopii 195855 est m 5 12

- Tel. not seen

2 2E
17 57
-55.4

T Pavonis 193972 est 11.5
1959
1 40E -71.5

1 43E
18 00
-71.6

T Octantis 205782 est 11.6
1803
2 54E -82.2

-822
18 05
3 3E

Aug. 9, 1913.

S Indi 204954 est 13.3 if seen

18 10
2 39

✓

2 38 E
18 12
-5 44

R Telescop. 200747 est 12.5

20 07
18 30
1 37

18 13
1 54 E

✓

-47.0
18 34
1 36 E

R Capric 200514 est 12.1

18 35
1 30 E

✓

1 26 E
18 39
-14.4

~~Z Aquilae~~ 200822 est 17.0
W Capric

✓

1 27 E
18 41
-22 2

RT Capric 201121 est 7.0

✓

-21.5
1 28 E
18 43

9989/

Aug. 9, 1913.

RT Sag. 201139 est 9.6
1844
1 27 Σ -39.2

1 25 Σ
1846
-39.2

U Microsc. 20224$\overset{0}{\text{X}}$ est m 3 Var
1

✓

1 33 Σ
1850
-40.3

R U Cap. 202622 est <12.8

✓

1 32 Σ
1855
-21.8

R Microsc. 203429 est d 22.9

✓

1 36 Σ
1857
-28.8

U Capric 204215 est 12.6

✓

1 41 Σ
1901
-14.8

Aug 9, 1913.

RR Capric 205627 do, 5.2

1902
1 54 E

✓

1 46 E
19 09
– 272

Z Aquilae 200906 est 13.0

9 54 E
6.3

19 16

T Aquarii 204405 est 8.5

1917
1 27 E

1 25 E
19 18
– 5.6

Y Aquarii 203905 est <12.5

1 17 E
19 21
– 5.2

W Aquarii 204104 est 12.6

1 17 E
19 23
– 4.2

32 – 404

200 5 Mon. Aug. 25, 1913

Finish finder of 13 with Boyd

Whole southern part of sky cloudy.

o Ceti
Aug. 16, 1912 15:00
est 6.1

~~20007~~

Wed. Aug 27, 1913.

J.D. 20007   8" finder of Boyden.

J.D. 20007.

Sky hazy in West
& some cloud near horizon

R Librae 154715 est <12.5

7 16   ✓   2 10 W
17 52
−16 6

RR Librae 155018 est. 12.3
17 55

7 19   ✓   −18.6
2 10 W
17 55

Z Librae 154020 <12.4

✓   −21.4

7 24   2 25 W
18 00

U Librae 153620 est < 12.5
2 34 W
7 28   — Librae = 12.2   18 04
−21 2

10007

Aug 27, 1913

RT Librae 150018 est 13.3

3 13 W
18 08
− 18.9

S Librae 151520 est 12.6

3 1 W
18 11
− 20.6

RS Librae 151822 est 11.8

3 0 W
18 13
− 22.8

T Librae 150519 est 12.1

3 15 W
18 15
− 20.2

X Librae 153020 est 11.3

2 53 W
18 18
− 21.3

Aug. 27, 1913.

RZ Scorpii 155823 est 10.4
1818
220
✓
2 34W
18 27
-24.4

RU Librae 152714 est 8.9
-15.3
3 3W
18 29

Y Librae 150605 est 13.0
1834
328
3 35E
18 36
l' Vari = 11.8
-6.4

8 30 Too cldy at present to continue.

11 00 Clearer.

RY Sag 191033 est 8.4
2136
2 20W
-34.2
2:30W
21:34

Aug. 27, 1913.

R Pavonis 18036 3 est

2137

334

Too cldy in South.

15 - 419

90028

~~On~~ Sept 17, 1913

8" finder of 13" Boyden.

JD 20028

8 40

RY Sag. 19 10 33 est 8.8
20 40
1 30 W

1 36 W
20 40
− 34.2

R Oph. 17 02 15 est 8.8
20 42
3 40 W

−16.2
3 52 W
20 48

RW Scorpii 17 08 33 est. 9.0
20 50
3 52 W − 3 8

3 54 W
20 56
−33.8

SV Scorpii 18 41 35 est ~~[illegible]~~
17 41
21 18
3 37
20 57
05 N
3 16 W −36.0

3 48 W
21 24
−36.2

RU Scorpii 17 35 43 est 11.0
21 25
3 50 −44.2

3 59 W
21 28
−44.2

20028

Sept 17, 1913

174551 U Arae a 2/6 c
21 30
3 45 W -5 2 2

-52.1
3 52 W
21 32

W Pavonis 184162 e 0.4 f
21 33
3 52 W -6 2 4

-6 31
21 36
14.4 W

R Cor. Aust 185537 a est 12.2

S Cor Aust 185437 est 12.0

2 50 W

T Cor Aust 185537 f est 12.8
21 38
2 43 W -37.5

-37.5
21 40

10 - 429

20029

Thur. Sept 18, 1913.

8" finder of 13" Boyden. L.C.Cb

20029 R T Librae 150018 est 12.5 ✓ 4 46 w -18.8 19 41

7 36 19 30 / 6 30 w -18.8

S Librae 151520 est 11.2 ✓ 4 38 w 19 47 -20.6

~~R~~ RS Librae 151822 est 11.7 ✓ 4 36 w 19 48 -23.3

T Librae 150519 est 12.2 ✓ 4 50 w 19 50

-20.3

R Coronae 154428 est 6.0 H/G.

Sept 18, 1913

Y Librae 15 06 05 est 12.0
19 53
4 47 W - 5.3

20 00
5 00 w

-5.6

RU Librae 15 27 14 est 8.3
20 27
5 0

5 6 w
20 28

-15.5

X Librae 15 30 20 est 12.4

5 5 w

-21.5
20 31

U Librae 15 36 20 est <12.4

5 2 w
20 33
-20.4

Z Librae 15 40 20 est <12.6

5 5 w
20 40
-21.6

Sept 18, 1913.

Z Scorpii 160021 est 12.6

2045

4 45 W

✓ 4 50 W
20 44

−22.0

X Scorpii 160221 est <12.8

✓ 4 50 W
20 47

−21.8

W Scorpii 160519 est <12.6

4 49 W
✓ 20 49

−20.2

RX Scorpii 160524 est <12.8

4 50 W
✓ 20 51

−25.3

R Scorpii 161122a est <12.8

S Scorpii 161122b est <12.8 4 48 W

✓ −23.5

20 53

20029

Sept 18, 1913

W Oph. 161607 est 12.2

4 48 W
20 59
−7.8

V Oph 162112 est 8.4

−12.6
4 46 W
21 01

SS Oph 165202 est 8.8
2112
4 20

4 29 W
21 16

−3.6

T Oph 162815 <12.6

4 56 W
21 18
−16.3

RR Oph 164319 est 8.3
2118
.4 35 W

4 43 W
21 20

−19.5

Sept 18, 1913.

RR Scorpii 165030 Est 6.0
2/22
4 32W 31.0
4 39W
21 24
- 31.0

RT Scorpii 165636 est 10.4
✓
4 35W
21 26
- 36.4

RS Scorpii 164844 est 10.7
21 32
4 44
✓
4 57W
21 32
- 45.5

RS Oph 174406 est 11.0
21 34
3 50 -7.3 ✓
3 58W
21 37
-7.3

Z Oph 171401 est 9.2
2139
4 25 +1.0
✓
4 33W
21 41
+1.2

20029

Sept 18, 1913

RU Oph. 172809 est 10.2 ✓
2142
414

4 23 W
2145

+9.0

RT Oph 175111 est 9.8 ✓
2146
355

4 3 W
2148

+10.6

RT Herc 170627 ✓
2149
1403 + 268
Too low

RT Sag 201139 est 8.3 pC
est 8.0 ✓ Cw

22 59
2 54 W
− 400

10 50 Sky quite cloudy 30 − 459

Tues. Sept 23, 1913.

JD 20034

Unkingom Jup Eclip early even & finder of Boyden.

S Octantis 172586 est c0, 5 d

2058

3 33 - 870 ✓

8 40

4 25 w
-87.4
21.04

R Pavonis. 180363 est p 3 Var.

2106 1.35th

3 3 w - 63.9

3 9 w
21.10

-64.3

RV Sagitt. 182133 est 10.9

2111

2 50 w - 33.6 ✓

2 53 w
21 14

- 34.2

SW Sagitt. 191331 est p 3 Var ✓

2117

2 04 -31.9

Susp Var = b 4.5 c

2 7 w
21 21

- 32.8

RY Sag. 191033 est 9.0 ✓

- 34.2
2 14 w
21 24

200 34

Sept 23, 1913

T Pavon. 193972 est 13.0

21 25

1 ~~2~~ 46 W − 72.9

.7 22
1.5 5 W
21 32

S Pavon. 194659 est 7.5

21 34

1 48 −59.6

1.5 4 W
−59.0
21 37

S Telescopii 195855 est no var

21 55

n' 5 Var (Susp) 13.6

2 2 W
−56 2
21 57

~~ST~~ RU Sag. 195142 est 7.4

22 00

2 9 W −42.5

2 11 W
22 01
−42 4

RR Sagitt. 194929 ~~est~~ 8.5

2 15 W
22 04

−30 2

Sept 23, 1913

ST Sagitt. 185512 est 12.0
2205
3 10 W – 13.3
✓

3 12 W
22 08
–13 3

R Sagittarii 191019 ~~est~~ 8.0
22 58
3 48
✓

3 49 W
23 0 ~~2~~0
–19 8

RW Sag. 190819 est 9.7
✓

3 52 W
2303

RX Sag. 190818 est 13.7 ✓ –19 7

S Sagitt 191319 est <13.5
✓

3 51 W
2306

–19 f

Z Sagitt 191321 ~~est~~ N.S. with Hart.
<13.5
✓

3 58 W
–21.8
23 12

20034

Sept 23, 1913

W Aquilae 191007 est 9.5
23 15
4 5 W -7 7

4 6 W
23 17
-7 8

("d" Var) = 10.8

R Aquilae 195202 est 9.0
23 18
3 26 W -2 8

3 31 W
23 24
-8 2

RS Aquil. 195308 est 11.6
23

3 27 W
23 20
-8 8

R Capric 200514 est 12.0
23 25
3 20 W

3 22 W
23 28
-15 1

22 - 481

Wed. Sept 24, 1913

L. C. Ob

J.D. 20035

8" finder of Boyden

S Serpentis 151714 est 12.5 ✓

1932
4 15

4.23 w
+14.8
19 37

R Serp. 154615 est 11.5 ✓

19 38
3 51

3.58 w
19:42
+14.8

Z Coronae 155229

1943
3 51 + 3.00

Too low

R Herculis 160118 est 11.4

1949
3 48

> 30

3.53 W
19 52
+18.2

U Serp 160210 est 11.1 ✓

3 56 w
19:54
+9.5

20035

Sept 24 1913

RT Herc 170627 est 12.8
19 56
2 50 w + 27.0

2 56 w
19 58
+ 26.6

RS Herc 171723 est 12.2
20 01

2 48 W
+ 22.6

R Y Herculis 175519 est

7 43 Cldy

RY Herc 175519 est 10.8
21 15
3 20 w + 19.0

3 27 w
21 19
+ 18.8

8 50

RY Oph. 181103 est 10.2
21 20
3 9 + 3.2

3 17 w
21 24
+ 3.2

Sept 24 1913

T Serp. 182306 est 11.8 ✓

+3.8
3 8 w
21 26

X Oph. 183308 est. 7.7 ✓

3 1 w
21 29
+7.7

SV Herc 182224 est <13.5

3 16 w
✓ 21 33

+24.2

R Aquilae 190108 est 10.8 ✓

21 36
2 33 w +7.5

+7.8
2. 40 w
21 36

V Lyrae 190929 — <13.0

21 39
2 30 w — +29.0

2 40 w
21 40

+29.0

Q0035

Sept 24, 1913

S Lyrae 190925 est 13.0 ✓

2: 38 w
21 42

+25.2

TY Cygni 192928 est 13.3 ✓

+27.2
2 26 w
21 50

T Sagittae 191717 est 9.3 ✓
21 52
2 35

2 40 w
21 53

+17.2

RT Aquilae 193311 est 8.3 ✓
21 54
2 21 w +10.5

2 27 w
21 56

+8.0

RV Aquil 193509 est 13.3 ✓

2 29 w
22 00

+9.0

Sept 24, 1913

X Aquilae 194604 est 11.5

+3.6

✓

2.1W
2203

SY Aquilae 200212 est 13.6

2203
21

✓

+12.2
2.8W
2206

S Aquilae 200715a est 11.2

✓

2.8W
2210
+14.6

RW Aquilae 200715b est 9.3

✓

2.10W
2212
+15.2

RU Aquilae 200812 est 12.8

2217
21 9

✓

+12.0
2.18W
2222

20035

Sept 24, 1913

R Delph. 201008 est 10.8 ✓
2245
2 35

2 41 W
22 47
+8 2

Z Delph. 202817 est 12.4 ✓
2248
2 20

2 26 W
22 50
+16 2

Y Delph 203611 est <13.5 ✓

2 19 W
22 52
+10 8

S Delph 203816 est 8.8 ✓

+16 0
2 19 W
22 53

T Delph 208016 est 11.4 ✓

+15 4
2 20 W
22 55

Sept 24 1913

Harvard College Observatory,
AREQUIPA, PERU, S.A.

V Delph 204318 est <13.5 ✓
2 19 w
22 58
+18.6

X Delph. 203817 est. <13.5
2 14 w
23 00
Var? = 12.6 ✓
+16.8

V Aquarii 204102 est 8.0 ✓
2 26 w
+1.2
23 03

Z Aquilae 200906 est 11.5
2305
256 ✓
-6.8
23 08
10 39
3 3 w

T Aquarii 204405 est 12.3
2309
225 ✓
2 30 w
23 10
-6.0

Sept 24, 1913

Y Aquarii 203905 <13.3

2 38 4
23 13
-5 8

W Aquarii 204104 est 12.4

2 38 4
23 14
-5 0

RT Capric. 201121 est 7.3

23 16
3 5

3 11 4
23 19
-22 7

W Capric. 201822 est 13.3

3 17 4
-22 7
23 21

RU Capric 202622 est 13.5

3 0 4
23 23
-22 8

Sept 24, 1913.

U Capric 204215 est 11.8 ✓

2323

241

247 av

2325

−15.9

H1 − 522

~~[illegible]~~ V Sag. 191331 yel b 3.5 c ✓

11 22 Susp Var.

2350

~~4~~37

C P

Fri. Sept 26, 1913

JD 20037 L.C.Obs.

8" finder of 13".

R Telescopii 200747
2000
072 Too high

V Capric. 210124 est 11.5
2004
057 −243
7 29
−23.8
058
2006

X Capric. 210221 est 12.0
−21.3
057
2008

R R Capric 205627 est k3 Var
20
−27.0
0.49
2009

~~RT Sag. 201139~~

U Aquarii 215717 est 11.7
2105
052
−16.5
8 30
053
−21.7

Sept 26, 1913

215628 S Pisc Aust d 3, 6 d'
−Pisc Aust. g' β N ✓

−278
0 48 E
21 10

221230 R Pisc Aust. est 9.4 ✓

1 0 E
21 14
−29.4

X Aquarii 221321 est 13.4 ✓

21 16
0 59 E
−21.0

RT Aquarii 221722 est 11.0 ✓

21 18
1 1 E
−22.0

T Gruis 221938 est h0.3 l ✓

1 1 E
21 20
−37 5

20037±

Sept 26, 1913.

221948 S Gruis est 12.7

-48.3

0 59 E
21 23

R Indi 222867 est 11.8

1 19 E
21 27

-67.3

~~E~~ T Tucanae 223462
est m3,60

1 17 E
21 31
-61.5

~~R Gruis 214347~~
~~21 32~~

21 39
1 13 E

S Aquarii 225120
21 36
1 15

est 10.1

-20.4

V Phoenicis 232746
2147
1 60 -45.5

1 37 E
21 51
-45.8

est k3,35

Sept 26, 1919.

235265 R Tucanae l 3, 3 mi

-65.6 ✓ -65.4
21.54
2.2Σ

R Phoenicis 235150 est 13.6
-49.9
✓ 1.53Σ
2200

R Aquarii 233815 est 7.8
2214
1 24 Σ -15.3 ✓ -15.3
1 22Σ
22 17

Z Aquarii 234716 est 8.8
✓ -164
-16.0 1.28Σ
9 30
2220

W Ceti 235715

Too cldy. C P 54' 19

20037

Tues. Sept. 30, 1913

8" Finder of Boyden

V Pegasi. 215605 — est. 9.5 +6.4
2020
1 36 E ★ 6.5 1.34E
7.24 ·20.24

T Pegasi 220412 Est 13.0 +12.6
20.25
1 39 E 1 38E
20.28.

R.S Pegasi 220714 Est 10.5 +14.3
20.29
1 38 E 1.39E
20.30

Y Pegasi 220613 - Est 13.0 +14.1
1.38E
20.31

R.W. Pegasi 225914 Est 10.5 +15.3
20.31
2.28 E 2.28E
20.33

Sept 30, 1913.

R. V. Pegasi 222129. Est 1+
20.34
1.47 E

Out of reach

R. Pegasi 230110 Est 10.2 + 10.4
20 35
2.26 E
2.26E
20.39

W Pegasi 231425 est 8.8
2 35 E
20 42
+ 26.2

S Pegasi 231508 est 7.8
2 32E
20 45
+ 8.8

Z Pegasi 235525 est 12.2
20 4 ~~6~~ 5 3
~~3 0 9~~
3 2 + 26.0
3.00 E
+ 25.5
20 58

Sept 30, 1913.

235209 V Ceti Est 10.1

2144
2 08 E -9.5

-8.8
2.07 E
21.48

235715 W Ceti Est 9.6

21.49
2.08 E

-14.8
2.09 E
21.51

000339 V Sculp Est m5 h

2152
2.11 E - 39.5

-38.8
2.04 E
22.03

Object(?) 2.11 E -39.1 at 22.01

001032 S S Sculptr Est. = 7 1 5 g

-32.0
2.08 E
22.05

Sept 30/13.

002438A T Sculpt Est = f5,2K ✓

- 34.8
2.18 E
22.08.

002438 B R.R Sculptoris Est = P5,1T ✓

~~-3~~

002833 W. Sculptoris Est = L4,2M ✓

- 32.8
2.18 E
22.13

004435 X Sculptoris Est = o3,3n ✓

2220
224 E

- 348
2 25 E
22 22

RY Sag. 191033 est 10.4

2350
440W -337

4 48W
2/3 54
- 344

Sept 30, 1913.

SW Sagitt. 191331 est no Var ✓

4 45 w
2 3 57
-32.4

— Surf Var = b 4.6 c

R Micros. 203429 est e5,0 h
2400
3 26 w -29.6

3 31 w
0 03
-29.8

RT Sag. 201139 est 7.8
2403
3 52 -40.0

3 58 w
0 06
-40.6

U Micros. 202240 est l3,2 m

3 48 w
0 07
-41.4

RT Telesc. 200747 est

C. O. 23-564

Sat Oct. 4, 1913

L. Cb

J.D. 20045 | 8" finder of Brydon.

>.38 | RY Sag 191033 est 10.4

2043
133

20 44
39 w
2364

1 — 1

Mon. Oct. 6, 1913

[illegible]

JO 20047 8 to 13" ~~[illegible]~~

est 10.6 1:57 W
7 48 RY Sag. 191033 moon quite closeby.
2100 −342
1 50 W m. 13". 2102

RS Oph 174406 est 11.5 ~~W~~ 3"
2128 3 51 W
8 17 ~~330~~ W − 73 2131
344 −72

R Oph 170215 est 8.0 w 8"
8 13 2125 K 30 E
K 23 2127
−1 38

RW Scorpii 170833 est 8.8 w 8"
2133 4 33 W
425 2137
−340

SV Scorpii 174135 est
Star marked → near l = t 3 M 4 12 W
Star which C marked Var? ~~tonight~~ −363
is red σ = a 5, 2 b 2149

SV or ?
Sp var? =
a new var.

~~RU Scorpii~~

Oct 6, 1913.

3
173547 RU Scorpii est 11.3 (13 inch)
2150
415 −443 ✓

4 24W
2155
−44.2

U Arae 174551 a 3, 30 (8")
2156
411 −52.2 ✓
4 20W
22 00
−52 2

W Pavonis 174162 est e2.3 ✓ (8")
4 31W
−630
22 05

185437 S Cor. Austr. 12 2 ✓ (13") 4.19W
185537 a R Cor Aust 13.0 ✓ (13") 22 09
185537 b T Cor Aust. 12.4 ✓ (13")
2206
3 11W ✓
−37.8

R Pavonis 180363 est 12.5 (13")
2230 ✓
427
−64.2
4 38W
2236

Oct. 6, 1913

RV Sag. 182133 est 10.2 (13")
22 36
4 15w — 34.0 ✓
4 23w
22 40
-34.0

T Pavon. 193972 est 13.2 (= n) 13"
22 42
3 3w -72.5 ✓
3 11w
22 45
-72.4

S Pavonis 194659 est 8.6 (8")
22 48
3 02 -59.6 ✓
3 7w
22 49
-59.8

S Telescopii 195855 est n' 3 Var (13")
22 50
2 52 -56.8
2 59w
22 53
-57.0

— Telesc. 195656 est = n 2, 2 n'.

RR Sagitt 194929 est 7.6 (8")
3 15w
23 00
-29.8

Oct 6, 1913

RU Sag. 195142 est 7.4 ✓ 8"

2256

3 5w -42.6

3 10w

-42.8

ST Sagitt 185512 est 13.6 ✓ 13"

2300

4 05 -13 3

4 14w

23 06

-13.6

R Sagitt 191019 est 8.4 ✓ 8"

-20.0

4 2w

23 09

RW Sagitt 190819 est 9.7 ✓ 8"

4 6w

23 10

-19.8

RX Sagitt 190818 est 13.0 ✓ 13"

-19.6

4 8w

23 12

Oct 6, 1913

S Sagitt 191319 est (3.7) ✓ | (13") 4 5w −19.8 23;15

Z Sagitt 191321 est < 3.8 ✓ | (13") 4 12w −21.6 23 20

T Sagitt. 19(01) est 90 ✓ | (8") 4 40w
2342
432
10 29 | 23 45 −17.6

W Aquilae 19(00) ~~est~~ 8.8 ✓ | (8") 4 44w
10 33 *d = 11.2 | −7.8 23 49

R S Aquilae 195803 est 120 ✓ | (13") 4 2w
2350
~~3 52~~
3 57
10 37 | 23 53 −8.8

Oct 6, 1913.

RR Aquilae 195202 est 9.4 (8")

10 40 ✓ -3.4
4:8w
2356

R Capric 200514 est 12.0 (13")
2400
3 5 5 ✓
-15.2
4:0w
~~=~~ 0:01

RT Capric 201121 est 7 2 (8")
2402
3:51 ✓
-22.2
3:57w
0:04

W Capric 200822 est ≮ 9.3 n
<14th ✓ (13")
4 00w
0:06
-22.8

RU Capric 202622 est <13.5 (13")
2406
3 40 ✓ 3 47w
0:08
-22.8

Oct 6, 1913.

U Capric 204215 est 12.0 13"
2410 3 34 W
3 28 W − 15.7 0:13
−15.6

Z Aquilae 200906 est 10.5 13'
2414
4 05 W −6.8 4 11 W
0:15
−6.8

T Aquarii 204405 est 12.5 13"
2416
3 32 3 40 W
0 19
−6.0

Y Aquarii 203905 est <13.6 13"
3 49 W
0 23
−5.8

W Aquarii 204104 est 12.5 13"
3 48 W
0 25
−4.5

Oct 6. 1913

Harvard College Observatory,
AREQUIPA, PERU, S. A.

R Microsp 203429 k5,3l (13")
2427 4 1W
3 5 3W -29.7 0 30
-29.5

RR Capric 205627 k3.0l (13")
2431 3 41W
3 35 -28.0 0 33
-28.8

RT Sagitt 201139 Est 7.5 (8")
2434 4 30W
423 -40.0 0 36
-39.8

R Telescopii 200747 Est 8.4 8"
2436 4 37W
4 30W -48.3 0 39
-47.8

U Microsp 202240 k6.1m 13"
2440 4 24W
418 -41.3 0 43
-41.3

Oct 6, 1913.

S Indi 204954 est <13.5 (13")
2452
4 03 W −53.0
4 18 W
1 02
−55.1

V Capric. 210124 Est 13.0 LC. (13")
2504 Est 13.0 ~~14.0~~ 13"
4 3 W −24.8
4 14 W
1 01
−24.8

47 4~~7~~8

P.

Tues. Oct 7, 1913

JD 20048 L. C. Obs.

Z Scorpii 160021 est 12.8 ✓ (13")

20 35

4 35 - 21.9

4 42 W

20 37

- 21.9

7(8

X Scorpii 160221 est 13.6 ✓ (13")

4 42 W

20 40

- 21.8

W Scorpii 160519 est 9.5 m ✓ (13")

- 20.4

442 W

20.43

RX Scorpii 160524 est 12.4 ✓ (13")

- 25.1

- 444 W

20.45

R Scorpii 161122A est 13.7 ✓ - 23.2

S Scorpii 161122B — 13.7 ✓

440 W.

20.47.

(13")

Tuesday Oct 7

W. Ophiu #161607	Est=12.8 ✓		13" -7.8 4 40 W 20.57
Y Ophiuchi 1621.12	Est= 8.0 ✓		13" -12.8 4 37 W 20.53
T. Ophiuchi 162815	Est=13.0 ✓		13" -16.8 4.31 W 20.55
S Ophiuchi 162816	Est= 9.5 ✓		8" -17.4 4 33 W 20.57
S.S. Ophiuchi 16.5202	Est= 9.0		8" -3.4 4 13 W 21.00

Tuesday Oct 4

R R Ophiuchi	164319	Est = 9.4 ✓	8" −19.8 4.26 W 21.04
R.R Scorpii	165030	Est = 6.9 ✓	8" −31.2 4.19 W 21.10
Nebula?		(?)	−30.7 4.18 W 21.07
R.T Scorpii	165636	Est = 12.2 ✓	15" −37.4 4.22 W 21.14
R S Scorpii	164844	Est = 8.3 ✓	8" −45.6 4.34 W 21.16

Tuesday Oct 7th/13.

ʺ	R.T. Herculis	17 06 24	Est = 12.8 ✓	13" +26.8 4.22 W 21.24
8 10	R.S. Herculis	17 17 23	Est = 13.0 ✓	13" +22.4 4 15 W 21.29
	R.Y. Herculis	17 55 19	Est = 12.4	13" +19.0 3.40 21.32

R.A. Circle light holder broken. will have to quit or Vaux until holder is repaired.

18 – 66 f

Thursday Oct 16th /13

R. Y. Sagittarii 191033 est = 10.0 ✓ 8"

f. 38

2.26 W.
- 21.33
34.2

P

1-67

Tues. Oct. 21, 1913

L.C.

10 30 Too cloudy

Wed. Oct 22, 1913

H. C. Obs.

Prob 3

RY Sagitt 191033 est 10.6 8"
2145
2 44 w
- 34.2
2 35
21 5~~4~~

SW Sagitt 191331 ~~est b~~ est 9.3 h 8"
2 46 w
Surf Var (-b-4, 4c)
- 32 6
21 59

S Cor Aust 185437 est 12.2 8"

T " " 185537 b est 13.0
R " " 185537 a est 12.0
2202
3 07
3 8 w
- 37 7
22 03

RV Sagitt 182133 est 10.2 8"
2205
3 44
3 45 w
- 3~~4~~0
22 06

~~ST Sagitt 185512~~

ST Sagitt 185372 est 13.5 13"
2206
3 11
3 42 w
- 132
22 08

Oct 22, 1913.

R Sagitt 191019 est 10.0 8"
2210 -28.0
30 ✓ 3 3w
2213

8"
RW Sag. 190819 est ✓19.8

8" -196
RX Sag. 190818 est ✓120 3 7w
2215

S Sagitt 191319 est 12.7 13"
✓ -198
3.5w
2218

Z Sagitt 191321 est <13.5 13"
-21.8
3.8w
2221

T Sagitt 191017 est 8.5 8"
✓ 3 14w
8 10 2224
-17.6

Oct 22, 1913

W Aquilae 191007 est 9.6 8"

"d" = 11.2 ✓ — 7.8
3 20w
22 28

RS Aquil 195308 est 12.2 8"
22 30
2 37 W
8.2
✓ 2 39 w
22 31
— 8.5

RR Aquilae 195202 est 9.7 8"
✓ 2 42w
22 33

— 2.6

R Capric 200514 est 12.2 8"
✓ 3 4w
23 09
— 15.0

RT Capric 201121 est 7.0 8"
✓ 3 1w
23 11
— 22.0

Oct 22 1913.

W Capric. 200822 9.5 n 13"

✓

3 4w
23 12
-228

RU Capric 202622 est 12.3 13"

✓

2 49 w
23 15
-224

U Capric. 204215 est 11.6 8"

23 16
2 34

✓

2 36 a
23 17
-15 6

Z Aquilae 200906 est 10.0 8"

23 18
3 9

✓

3 11 W
23 20
-6.9

✓

T Aquarii 204405 est 13.0 8"

23 21
2 37W

2 39a
23 22
-6.0

Oct 22, 1913

Y Aquarii 203905 est 9.5 Var 13'

14th ✓ 2 45 W
23 24

−5.8

W Aquarii 204104 est 11.0 8"

✓ −4.8
2 45 W
23 25

R Pavonis 180363 est 11.4 8"
23 28
5 25 W −64.0 5 30 W
✓ 23 33

−64.2

T Pavonis 193972 est 13.0 8"
23 34 ✓
3 53 W −72.5 3 59 W
23 35
−72.4

S Pavonis ~~2~~ 194659 est 8.4 8"
23 36 3 53 W
3 50 ✓ 23 38
−60.0

Oct 22, 1913.

S Telescopii 195855 est m 3,3 n 8"
2340
4 42 W ✓
3 50 w
23 45
~~Var x~~ =

Telesc 195657 = n 3,3 n ! ✓
− 56 8
RU Sag. 195142 est 7.5
8 4
2346
3 5 5 − 42.6 ✓
3 56 w
23 49
− 42 5

RR Sagitt 194929 est 7.8
8 5
✓
4 2 w
23 52
− 30.0

RO Microscopii 203429 est u 3,3 v 8'
2354
3 20 w − 29.5 ✓
3 22 w
23 56
− 29.6

RR Capric. 205627 est l 5 Var / 3'
✓
− 27 6
3 3 w
23 58

Oct 22, 1913

V Capric 210124 ~~est~~ 12.8 13"
✓
−24.8
3 1W
0 02

RT Sagitt. 201139 ~~est~~ 8.0 8"
2404
3 53
✓
−39.8
3 57W
0 07

U Micros. 202240 est 10.4M 13"
3 48W
0 09
✓
−46.2

R Telescopii 200747 est 8.5 8"
✓
−47.7
4:7W
0:13

S Indi. 204954 ~~est~~ 13.6 13"
2414
3 25W −55.2
✓
3 29 W
0 17
−55

Oct 22, 1913

T Octantis 20 5 78 2 est

2 4 18

3 21 W − 8 30

Too much cld to continue.

10 10 & Light on Dec. circle gave out.

L

P

C for cambridge

H1 − 108

200 63

Fri. Oct 24, 1913

S Y Aquilae ~~200012~~ 200212 23 ~~2~~ 32
2322 3 30 W
9 00 3 20 W +12 8
~~est~~ = surf = 14 th 13"

S Aquilae 200715 a est 10.4 8"
3 29 W
8" 23 36
R. W. Aquilae 200715 f est = 9.3 +15.4

RU Aquilae 200812 est 13.6 13"
3 33 W
+12 2
23 42

R Delph. 20100 f est 8.4 8"
3 35 W
+8.6 ~~W~~
23 45

Z Delphini 20 28 17 est 12.3 8"
3 19 W
+16.6
23 47

Friday Oct 24th 1913

Y Delph.	20 36 11	Est. 14.0 ✓	13" 3 12 W +11.2 23 49
S Delph.	20 38 16	Est. 8.8 ✓	8" 3 12 W +16.2 23 50
T Delph.	20 40 16	Est 8.9. ✓	8". 3 12 W +15.5 23 52
V Delph.	20 43 18	est < 13.5 ✓	13" 3 11 W +18.4 23 55
X Delph	20 50 17	Est. X is 13.8 } Var ? = 12.8 } ✓	13" 3 06 W +13.8 23 57

Friday Oct 24th

R Vulpeculae	20 59 23	est. 10.5 ✓	8'' 3 00 W +22.8 23 59
TW Cyg.	21 01 29	Est 10.4 ✓	8'' 3 01 W +28.7 0 02
X Peg.	21 16 14	est. 11.4 ✓	8'' 2 48 W +13.4 0 04
R.R. Peg.	21 40 24 ✓	est 13.4	13'' 2 26 W +24.0 0 06
S S Cyg.	21 38 43 ✓	Est 11.4	8'' 2 32 W +42.8 0 10

Oct 24, 1913.

V Aquarii	204102 2412 331	~~est 8.4~~ ✓	8" 3 34W 0 160 +1.6
R Equulei	210812 2416 3 8W	est. 11.4 ✓	8" 3 09W +12.2 0 18
R.S. Aquarii	21 05 04	Est. 12.8 ✓	8" 3 15W -4.8 0 20
R.R Aquarii	21 09 03	est. 10.4 ✓	8" 3 13W -3.8 0 23
Z. Capricorni	21 05 16	Est 13.0 ✓	8" 3 21 W -17.0 0 25

Oct 24, 1913.

T Capric. 21 16 15 est 12.8 | 13''
2446 | 3 32 W
3 30 W | -16.2
✓ | 0 48

Y Capric. 21 28 14 est. 12.2 | 8''
3 22 W
✓ | -14.8
0 50

X Capric. 21 02 21 est. 13.1 | 13''
3 49 W
✓ | -22.2
0 53

U Aquarii 21 57 17 est. 11.7 | 8''
2 57 W
✓ | -17.8
0 54

S Pisc Aust. 21 56 28 ~~est.~~ ~~13 2 2 d~~ b 2 2 d | 8''
✓ Notation without brackets used ~~Var [illegible]~~n. | 3 03 W
-28.8

Var - Pisc Aust ~~[illegible]~~ 9' 5 ~~14~~ N ,3'' ~~[illegible]~~ ~~13''~~ | 1 00

Friday Oct 24th 1913

	S Microscopii	21 20 30	est. b0, 4m	✓	13" 3 43W -30.8 1 04
10 28	R. Gruis	21 42 47	est d4, 2f	✓	8" 3 24W -47.8 1 00
10 38	T Octantis	20 57 82	est 8.8	✓	8" 4 18W -83.2 1 10
	Q Indi	22 28 67	est. 13.0 or X434	✓	13" 2 46W -68.3 1.14
	T Tucanae	25 16 22 34 62 2 42	est. k0, 4m	✓	8" 2.48W -62.8 1 20

Friday Oct 24th, 1913

S Gruis	22 19 48	est. 12 ✓	8'' 3 04 W −49.6 1 22
T Gruis	22 19 38	est. d 2, 3 e ✓	8'' 3 05 W −38.6 1 25
R Pisc. Aust.	22 12 30	est. 10.2 ✓	8'' 3 14 W −30.4 1 26
X Aquarii	22 13 21	est. 13.8 ✓	8'' 3 16 W −21.8 1 28
RT Aquarii	22 17 22	est. 11.8 ✓	8'' 3 14 W −22.8 1 31

Friday Oct 24th A, 3

	S Aquarii	22 51 20	est 11.6	8''
				2 41 W
				-21.4
				1 32
	R Aquarii	23 38 15	est. 8.3	8''
				1 56 W
				-16.3
11 03				1 35

40 — 148

Plotted.
C for C

L

Sat Oct 25, 1913

JD 20066

9 07

R Aquilae 190108 Est = 9.6 (8")

23 33
4 32 W

✓

4.40 W
+7.6
23 41

T Sagittae 191717 Est = 9.0 (8")

✓

4 24 W
+17.0
23 44

RV Aquilae 193509 Est = 11.0 (8")

✓

4.11 W
+9.02
23.47

X Aquilae 194604 Est = 13.1 (8")

✓

4 03 W
+3.8
23.49

RT Aquilae 193311 Est = 9.5 (8")

✓

4.19 W
+10.8
23.51

Oct 25, 1913

S. Lyrae 190925 Est =
Too low.

V. Pegasi 215605 Est = 11.4

(8')
2.03W
+5.2
23.58

Too hazy & cldy to continue at present.

Air very moist.

6 - 1514

L

Tues ~~Oct~~ 28, 1913

20d9

LCB.

Z Scorpii 160021
2150
5 50 w
7 15
Too low & in haze

R Oph. 170215 est 8.0 ✓ (8")
2200
4 58
−16 6
22:06
5:4 w

RR Oph. 164319 est 10.0 ✓ (8")
5 23w
22 08
−19 8

R Scorpii 16~~11~~22a ✓ 12.6 (13")
6 2w

S Scorpii 161122 b ✓ 13.0 (13") 22 12
Region low, obs diff.
−23.4

RR Scorpii 165030 est 9.0 ✓ (8")
2215
5 25
22 16
5 28 W
−36 8

Oct 28, 1913.

RW Scorpii 170833 est 10.4 — 8'
2218 — 5 13W
5 10W -33.8 ✓ — 22 20
-338

RT Scorpii 165636 est 12.5 — 18"
2221 ✓ — 5 30W
5 25 — 22 24
-37.4

RS Scorpii 164844 est 7.1 — 8"
2226 — 5 43W
5 38W -45.5 ✓ — 22 29
-45.5

SV Scorpii 174135 est 22.5 t ✓ — 13'
2230 — 4 56W
4 49W -362 ✓ — 22 36
Var? = c 4.2 d — -362

RU Scorpii 173543 est 19.6 ✓ — 13"
5 6W
22 40
-445

Oct 28, 1913.

U Arae 174551 g3,3h 13"
8 00 2242 ✓ -52.3
~~8 16~~ 4 57W -52 2 5:02W
22 45

Clds nearby.

W Pavonis 174162 est k4,2m 13"
8 19 2259 5:26W
5 18W -63.0 ✓ 23 05
-63.0

S Octantis 172586 f2,6k 13"
2306 ✓ -87.0
8 25 5 41W -87.0 6.00W
23.11

RY Sag. 191033 est 10.2 8"
Haze here. ✓ 4 8W
8 30 23 16

Very hazy & cldy -342
the sky as a whole.

15 — 169

20072 ✓

Fri. Oct 31, 1913

RY Sag. 191033 est 10.5 | 8"
2212 | 3 15 W
3 2 W ✓ | 2225
) 29
Magn. of Stars l & m should be interchanged. | −34.2

RT Oph 175711 est 11.0 | 8"
2227 | 4 39 W
4 36 W +11.0 ✓ | 2230
+10.6

RY Herc 175519 est 13.5 | 13"
4 39 W
2234
✓
+19.0

RY Oph 181103 est >5 | 8"
2235 | 4 27 W
4 24 ✓ | 2238
+3.3

SV Herc. 182224 est (0.) | 8"
2240 | +26.2
4 18 W ✓ | 4 22 W
2243

Oct 31/1913

T Serp. 182306 est 13.3 13"
2241
418
✓
+5.8
4 18W
22 41

RZ Herc 183225 est 11.5 13"
✓
4 17W
22 49
+25.5

X Oph. 183308 est 7.2 8"
2251
418
✓
+8.2
4 21 W
22 55

S Lyrae 19 09 25 est 9.5 8"
22 56
3 47
✓
+25.4
3 51 W
Haze in region, observation doubtful
22 59

V Lyrae 19 05 29 est 13.5 13"
✓
+29.2
3.56 W
Sky clears in this part of sky
23 02

Friday Oct 31 1913

T. Y. Cygni 23 03
~~F Y Cygni~~ 19 29 28 est 13,7 ,13″
3 34 ✓ + 27.4
3 37 W
23 06

T Pegasi 22 04 12 est
23 08
1 04 W

clds here
8 12 Too poor to continue at present

~~H 180~~

f.

C for C

L

Oct 31, 1913

10 10 Clearer now - except low in west -

Y Pegasi 220613 est 10.2 8" +13 6

10 17 RS Pegasi 220714 est 9.4 8" 3:7w
1:13
2511
3 4w

T Pegasi. 220412 est 13.8 13"
3 13w
10 20 1:16
+11.8

RV Peg. 222129 est <13.5 13"
2517
2 56
2 59W
10 23 1:19
+29.2

RW Peg 225916 est 11.7 8"
2522
2 23
2 27w
10 28 +14.0
1:24

R Pegasi 230110 est 9.0 8"
2525
2 24
+9.2
10 31 2 27w
1:27

Oct 31, 1913

S Pegasi 231508 est 8.6 8''

25 28

2 13 W

2 22 W

+ 8.2

10 39 23 20

25 35

2 15

✓ 1: 36

W Pegasi 231425 est 8.8 8''

10 42 + 25.2 ✓

2 26 W

1: 39

+ 25.2

Z Pegasi 235525 est 12.7 8''

2540

1 45 W

+ 24.6

1 52 W

✓

1 46

V Ceti 235209 9.5 8''

✓

− 9.8

1 59 W

1 49.

Z Aquarii 234716 est 9.6 8''

− 16.8

✓ 2 07 W

1 52

Oct 31 1913

W Ceti	23 57 15	est 11.0 ✓	8" −15.7 1 59 W 1 54
S Sculpt.	00 10 32	est d2, 3e	8" −33.2 1 48 W 1 58
W Sculp	00 28 33	est m3, 2n ✓	8" −34.0 1 33 W 2 00
X Sculpt	00 44 35	est p2, 3n ✓	8" −35.8 1 20 W 2 03
V Sculp.	00 03 39	est m5 Var. ✓	13" 2 3 W 2:06 −60.2

Oct 31, 1913.

002438a T Sculpt. 03.1 p 8"

0207 — -39.0

1 43 W ✓ 1.45 W

RR Sculptoris 002438b 1/p 3.4 f 8" 2:09

- Phoenicis 232746 est n3, 2r 8"

2611 — 2.47 W

2 44 W ✓ 2:13

-46 f

R Phoenicis 235150 Est /3.0 13"

2614

2 23 W — -50.8

2 27 W

✓ 2 17

T Phoen 002546 Est k3 Var 5m / 13"

218

1 53 W -47.5 ✓ 1.59 W

2:23

-47.4

Oct 31, 1913

Nova Gem II

est of comp ★s Wolbouisel. see
PA 20 - p. 389-390.

d much brighter than e

d 1 magn e
e 3 g 2 f 3 k 2 h 6 l 3 m 2 n 3 o
o 3 p ~~3 q~~
for m n o p see Olcott chart.
~~q = C additional star~~

Est 13.03 Nova = p 4 Nova ~~q~~ = 11th Mag$_p$

33 — 202
C for C.
P

✓

Tues Nov. 18, 1913

J.D. 20090 .

RY Sag 191033 8"
0 0
est 10.8 4 56 W
7 57 (m 5 l) Var fainter than formerly. -34 4
l 6 Var 20

R Sagitt 191019 est 11.0 8"
8 12 5 11 W
✓ 0 15
-19 8

RW Sag 190819 est 10.0 8"
5 14 W
8 14 RX Sag. 190818 est 10.2 0 17
✓ -19 5

S Sag 191819 est 12.6 13"
-19 8
8 16 (Var? (near e+g) = g 3, 4 g) ✓ 5 16 W
0 23

8 30 Clds, cannot continue at present.

Wed. Nov. 19, 1913

LC-Ob

13"

~~to~~ 7.03 Susp Var near S Sag. est 11.0 4:4W
* tuple fainter ~~tonight~~. ✓ +23:11
−19.4

Fri. Nov 21 1913

L.C.

8 7

7 65 — Susp Var near W Sag. ✓
est 10.5

20096.

Mon Nov 24 1913

S Sag ~~19 10 13~~ = 11.8 ✓ 13"
19 13 19
~~23 53~~
4 40
5 5 W
− 19.6
0 18

7 40

Susp Var = 10.8 ✓ 13"

RY Sag 19 10 33 est 10.9 13"
24 20
5 10 W ✓
5 13 W
− 3.44
0.22

7 50

24 25
Z Sag, 19 13 21 est < 14 13"
5 12 ✓
5 20 W
− 21.7
0 33

~~0~~ 40
T Sag 19 10 17 est 8,2 ✓ 8"
5 30
5 28 W
− 17.6
0 37

0 40
SW Sag. 19 13 31 est 8,3; 2g. 13"
5 27
Suspected star = 8,5 3c ✓
5 31 W
− 32.3
0 44

Nov 24 1913

RR Sag	0 45 19 49 29 4 5 6	est 7.0 ✓	8'' 4 58 W -29.8 0 46
RU Sag.	19 51 42	est 8.7 ✓	8'' 4 58 W -42.4 0 49
S Pav.	19 46 59	est 9.0 ✓	8'' 5 10 W -59.9 0 53
T Pav.	0 55 19 39 72 5 1 6	est 12.4 ✓	13'' 5 20 W -72.6 0 57
S Tel. - Tel = X O Var.	19 58 55	~~= X O Var.~~ est S Tel = m 3, 3 n ✓	13'' 5 07 W -56 6 1 02

Nov 24 1913

	20 05		
⊗R Tel.	20 07 47	est	
	4 58		
Abandoned		✓	

Thu. Nov 28, 1913

Susp Var near S Sag. est 11.0 13'
19 1319 5 18 W
-19.8
✓

R Y Sag. 191033 est 10.6 13'
5 25 W
-34 2
0 35'

R Teleſc. 200747 est 9.9 8' ~~15'~~
2437 4 36 W
4 30 W -48.3 ✓ 0:42
) 53 -47.8

1
225
1

Tues. Dec 2, 1913

JD 20104 L.C.Ck.

R Capric. 200514 est. 1$\overset{3}{\cancel{4}}$.0 (13")

2435

430w

of. 44

✓

-15.0
4.41W
0.41.

R.S Aquilae 195308 Est = 12.8 (13")

✓

-8.5
4.57W
0.45

Z Aquilae 200906 Est = 13.2 (13")

✓

-6.8
4.44W
0.49

R T. Capricorni 201121 Est = 7.2 (8")

✓

-22.3
4.46W
0.51

W Capricorni 200822 Est = f 13.5 (13)

-23.0
4.5W
0.54

✓

Tuesday Dec 2nd/13.

8"

R U Capricorni 202622 Est = 11.4
-22.5
4.35 W
0.57.
✓

8"

R Microscopii 203429 Est = 13.0 m
-29.6
4.32 W
1.00
✓

13"

U Capricorni 204215 Est = 12.8
-15.6
4 28 W
1.03
✓

8"

T Aquarii 204405 Est = 10.3
-6.4
4 29 W
1.04.
✓

13"

Y Aquarii 203905 Est = 13.1
-5.8
4 37 W
1.18
✓

Dec 2, 1913

(8")

W Aquari 204104 Est 9.2

✓

-5.2
4.37 W
1.11

R.R. Capricorni 205627 Est = <13 Var ~~8~~ 13'

✓

4 23 W
1.14
-278

V Capric 210124 est 13.2

1 3"

✓

Moon quite near.

4 22 W
1 18

-228

X Capric 210221 est 13.0

1 3"

✓

Moon quite near

4 23 W
1 : 20

-222

Z Capricorni 21.05 76 Est = 13.3

(13')

✓

-17.0
4.37
1.37

Tuesday Dec 2nd

13"

Y R S Aquarii 210304 Est = 13.5

− 5.0
4 39 W
1.40

✓

13"

R R Aquarii 210903 Est = 13.2

− 3.8
4 34 W
1 42.

✓

8 45

T' Capricorni 211615 Est = 9.8

− 16.2
4 ~~36~~ 37 W
1.45

✓

Star ~~a~~ a is double

Y Capricorni 212814 Est = 13.4

13"

− 15.0
4 26 W
1.50

✓

8"

U Aquarii 215717 Est = 11.4

− 17.5
3. 59 W
1.52

✓

7 9

Tuesday Dec 2nd/13

Harvard College Observatory,
AREQUIPA, PERU, S. A.

(13")

R T Sagitt. 201139 Est = of var = 10.0
2554 Var. = s f star − 39.9
5.48 W 10.0 = m f star 5.52 W
✓ 1.58

Star 10.0 close to var. much fainter than 10.0 = 11.5 mag.

(8")

U Microscopii 202240 Est = C 4, 2 e
−41.2
✓ 5.45 W
2.02

(13")

S Indi 204954 Est = 13.6
−55.5
5.24 W
2.06

(13")

S Microscopii 212030 Est = m 5, 2 m ✓
−30.8
✓ 4.56 W
2.11

(13")

2.17
S. PiscAust 215628 Est = ~~of star~~ var
4.16 W −28.8
4.24 W
S = Var = K. — PiscAust = 2 3 Var 2.15 ✓
C for C
P 27-25

20185

Sat. Feb. 21, 1914

L. Cobb

o Ceti 021403

8 58 ~~est~~ 3.0 eye est —

Var bright & quite red.

Est ρ3 var 29

R Reticuli 043263

4 18 W

0835

-63.6

40 -63.5

8 48

R Doradus too bright for observing.

R Coeli 043738

est w5 var

var faint about 14^{m} ± V

4 21 W

-38.8

8 53

8 57 00

R Pictoris 044349

est var 6a

4 14

V

4 19 W

-49.8

10:35

9 00

9 00

S. Pict. 050848

est 03 var ~~a~~

3 57

~~3~~ 52

10.38 var very faint 14^{m} ±

V

-48.9

9 03

Sat Feb 21st 1914

T Pict. 051247

est m 4 2 p
3 57 W
−47.4
9 07

T Columbae 051533

est l 0 3 m
3 56 W
−34.2
9:10

S Columbae 054331
09 14
3 31

−32.2

est g 3, 3 h
3 33 w
9 16

−32 2

R Columbae 054629

est n 8 Var

Var Very Fff. est 14th ±

3 32 w
9 19

−29.6

T Leporis 050022 est 10.4
9 20
4 20

4 22 w
9 23

−22 2

Feb. 21, 1914.

R Octantis 055686 est n 3, 3 p
924
3 28W -87.6 ✓

3:51W
932
-86.6

R Volantis 070772 est d 5, 2 k
933
2 26W -73.4 ✓

2 33W
938
-730

S Volantis 073173 est f 3 3 c
941
2 10 -73.7 ✓

2 13W
942
-73.6

R Chamaeleontis 082476 est 01, 4 n
0943
1 19W -76.7 ✓

⇄
1 23W
944
-76.4 ✓

S Puppis 074347 est C3, 3 e
945
2 2W -48.4

-48.2
2:5W
~~255~~
949

Feb 21, 1914

W Puppis 074241 est 9.4 2
9 50
2 8 w -4 ~~2~~.5
2 13W
-42.2
9 55

Z Puppis 122820 est 8.8
✓
4 31
-20.8
10 00

X Puppis ✓ est 8.2

S Pyx. 090024 est 12.0
✓
1 04W
-35.0
10.05

V Velorum 092551 est ~~8~~ 6 3w
0 46W
-52.2
10 11

Star w = preced. comp. of var.

Sat Feb 21st 1914

R. Y
~~R U~~ Carinae 091365 est. c' 33 f
✓
1 02 W
-66.6
10 15

RW Carinae 091868 est. e 4.0 f
zero
1 00 W
Susp. var not seen ✓
-68.6
10 17

R Carinae 092962 est 8.2
0 54 W
-62.7
✓
10 24

Z Velorum 094953 est ~~f4~~ e4 30
0 39 W
-54.2
✓
10 29

RR Carinae 095458 est 8.2
0 39 W
12 09
-58.7
25-277
10 34

20186 Sun Feb 22, 1914

O Ceti 021403 — eye est

7 20 est 3.2 ✓

1 – 278.

Mon Feb. 23, 1914

LC

7 27 o Ceti 021403 est 3.3 (eye est)

Wed. Feb. 25, 1914

20189.

L.C. Obs

o Ceti 021403 est 3.3 eye est.

7 50 est 3.3 H.P. Obs. eye

8 03 L² Puppis b 1, 7 c est 3.8 F.E.S.
est 4.0 H.P. Obs. F.E.S.

8 22 V Puppis (4.3) 2, 2 (4.8) = 4.55 F.E.S.
est by H.P. = 4.5 F.E.S.

8 35 ~~L~~ l Carinae est (4.2) 1, 3 (4.6) F.E.S.
L.C. Obs

8 36 est 4.3 H.P. Obs

η Carinae too diffused to est well in F.E.S. ft about 7th

8 40 N Velorum est 3.1 F.E.S. eye L.C.
est 3.0 F.E.S. H.P.

8 43 R Carinae N.S. in F.E.S. < 7.0 H.P. Obs
same by L.C.

8 52 θ Apodis est F.E.S. (5.3) 5, 2 (6.4) = 6.1 L.C. Obs
8 58 est by H.P. = 6.0

Feb. 25, 1914.

9 00 R Pavonis. est Fl.G (5.3)2, 2(5.6)
= 5.5 L.C. Ob.
9 02 est 5.5 Fl.G by H.P.
✓

10 45 R Hydrae h2, 3k est Fl.G L.C.
10 48 Est 5.2 H.P. Ob. /

L

20195.

Tues March 3, 1914

LC Ob.

Clear in N E only.

6 15 S.T. ρ² Puppis est 3.9 FEG
=

V Puppis est 5.0 FEG
6 18 S.T.

6 23 S.T. l Carinae est 3.7 FEG

6 25 S.T. N ~~Carinae~~ Velorum est 3.4 FEG

6 29 S.T. θ Apodis est 5.5 FEG

6 30 S.T. R Apodis est 5.3 FEG

L

~~Saturday~~ Mar 7th 1914

20199

O Ceti est 3.0 7 40 LC eye est
Est 2,9 7 50 HP 7.G. est.

L² Puppis est 3.8 8.03 HP 7.G. est.
L² Puppis est 3.4 8:00 LC Obs/FEG.

V Puppis est 4.5 8-06 HP 7.G
V Puppis est 4.6 8:20 LC Obs.

8 23 l Carinae est 4.0 LC Obs FEG
8 24 l Carinae est 4.2 HP Obs
8 25 N Velorum est 4.2 LC Obs. Obs nearly

8 27 R Apodis est 5.0 LC Obs FEG
8 28 θ Apodis est 5.3 LC Obs FEG

8 39 R Apodis est 4.8 HP Obs FEG

20199

March ~~May~~ 7, 1915

9:01 α Orionis L.C. eye est ✓

β Orion 4 α, α 1 α Can Min F.C. = 0.6

9 03 β Orion 5 α, Proc 3 α, α 3 α Taur H.P.
1 0.8

U Orion 054920

9 09 N.S. < 7.0 L.C. H.P.

η Gem.

9 15 μ Gem 3 Var 3 ξ Gem L.C. Ob. F.S.

9 14 est 3.5 H.P. Obs.

ξ Gem

9 18 est 4.0 H.P. & L.C. Obs eye ✓

8 27 R Hydrae 132224 est ~~[illegible]~~ L.C. Ob
Var 3 g ✓ F.S.
haze nearby

est Var 1 g H.P. Ob. F.S.

9 35 R Leonis 094211 est F.S.
est 6.7 L.C. Ob ✓

9 38 est 6.5 H.P. Ob. Haze near

Mar. 7. 1914

9 41 l Carinae Sky Clear
est 3.4 P.C. eye
" 3.4 H.P. "

9 43 N Velorum est 3.3 H.P. eye
" 3.3 P.C. eye

✓

20207

Sun. Mar. 15, 1914

L.C. Obs.

7.20 o Ceti 021403 est 3.2 eye est ✓

7h 50 l Carinae est ~~F.G.~~ eye = 4.0 ✓

7h 47 l² Puppis est 4.6 F.G. L.C. Obs. ✓

7h 48 V Puppis est 4.5 L.C. F.G. ✓

7h 51 N Velorum est 3.3 L.C. eye ✓

7h 53 R Leonis 094211 est 7.0 F.G. L.C. ✓
star 6.6 = (5.8) 2, 2 (6.4) var ? L.C.

7h 54 α Orionis L.C. ✓
β 3 α, 3 Procyon, 5 α Tauri eye

7h 56 η Gem. 3.4 eye est L.C. ✓

7h 57 ζ Gem. 4.4 eye est L.C. ✓

8 01 R Apodis F.G. est 5.6 L.C. ✓

8 00 θ Apodis F.G. est 5.7 L.C. ✓

Sunday March 15th 1914

7 45	o Ceti	est 3.1	eye est. 100	✓
8 02	L² Puppis	est 4.0	F.G. est 100	✓
8 05	V Puppis	est 4.1	F.G. est 100	
8 19	l Carinae	est 3.8	F.G. est 100	
8 27	N Velorum	est 3.5	F.G. est 100	
8 35 ?	W ~~Orion~~.	est 6.1	F.G. est 100	
8 45	θ ~~Apodis~~	est 5.8	F.G. est 100	
8 48	θ Apodis	est 5.5	F.G. est 100	

✓

Wed Apr 15, 1914

20h38

8"

12.52 RY Sag 191033 est 7.7 LC.

13:00 " 7.7 HO.

✓

20244

Tues April 21 1914

R Hydrae 132422 eye est LCdb

12 35 est h2,2k ✓

R Coronae 154428 ~~eye~~ est F.G LC

12 37 est 5.8 ✓

R Scuti 184205 est F.G LC.

12 39 est 6.0 ✓

Fri. May 1, 1914

L.C.Ob.

Comet a 1914.

Observed in 5 inch as a 10th magn star but very diffused.
Observed in F.G. as a 7th magn star, more condensed

Comet precedes +17.3555 (52) by 55 secs & same decl. at 11:00 pm.

20268

Fri. May. 15, 1914

LCW. N.E.

10:30 R Hydrae est 5.6 ✓

Tues. May 26. 1914

20279

R Hydrae 132422

12 30 mt 6.0 eye TT.

Wed. May 27. 1914

20280.

L.C.Ob

8" finder of Boyden Telescope.

15 21

.7 RS Carinae 110361 4 23W

set m5 N 1516 / 413W -61.9 -61.9

RS Cent. 111661 ~~ext~~

414W

.7 -61.9 1524

~~ext~~ b2,3c 1522 / 406

-620

W Cent. 115058 ext h3,3k

1525 3 44W

335W -59.2 ~~15~~ 29

✓ -59.2

X Centauri 114441

1530

✓ 346W -41.4

a 4,4b -41.6

357W

15 35

May 27 1914

15 37
U Cent 12 28 54 est 11.3
3 11
-54.8
3 18 W
15 41

cent 42
RV 13 31 55 -56.3
d 2,3 E 10.2 2 19 W
15 44

15 45
T Cent. 13 36 33 est 7.9
2 19 W
-33.8
15 50

RY Cent 13 42 36 est
2 15 W
u3, 3 Z -36.9
15 54

RX Cent 13 45 36 est
2 16 W
z5, N -37.0
15 56

May 27 1914

R W Hydrae 14 05 28 est

1 59 W

-28.9

16 00

G.M.T. ~~Dec.~~

.17

- l 2, 3 m

Fri. May 29, 1914

8" finder Boyden. LCA

CDD -41. 3911 081041 — 12:20 4:15 W -41.9

8 10 -41.4 est a 5, 1 b, 3 c.

7. 38 — 11 30 magn 11th ±

3 20w -41.9 Var. checked by transits.

Star a -41.39.09 (9.6) Star b = -41.3900 (10)

Star c = -41 39 03 (10)

Sat May 30, 1914

PC

8" Boyden finder.

- Puppis 081041 est a4, 2b, 4c

7 11 same comp star as last night.

Cfr C. ✓

Sun May 3, 1914

Region 2 9 for Possible Nova
8 45 also 30 carefully examined.
to
9 00 All stars marked on map seen and
no others except the cluster
near β which is readily seen.

Mon June 1 1914

081041 8" Finder Boyden

7 00 — 60, 3C

System Search Nova Region 29.

Nothing new as br. as 5th magn

12 00 to 12:15 seen.

Tues. June 2, 1914

081004 8" finder of Boyden

655 a5, 1b, 4c

0288

Thurs June 4, 1914

L C Ca

o Ceti 021403 H.G.

7 3, 1 3 = 6.6

15 45 (a 3, 1 b) (prov. not on chart)

a = 71 Ceti, b = star due S of o

0281 Fri. June 5, 1914

8" Boyden Fluids

1240

055686 R Octantis — Est

644 — 7 23 W

Not seen with ~~certainty~~ — -86 .7

12 50

074241 W Puppis — est

f 2, 5 g. — 5 16 W

-42.4

12 54

811 -414

est

7 4cf a 5, b 1, 3 c — 4 50 W

-42.0

12 56

9 00 24 S Pyxidis — 9.7 est

4.06 W

-25.2

Set watch ahead 5 m — 13 06

June 5th 1914

20289

13 08
09 40 23 RR Hydrae 10.8 est
3 ~~2~~8
-24.1
332 W
13 10

13 10
09 4~~7~~6 22 y Hydrae est 6.8
3 22
-23.2
3 25 W
13 12

13 ~~4~~
10 46 20 V Hydrae est 6.8
228
-21.4
2 27 W

13 16
10 46 28 RS Hydrae
230
-28.6
2 30 W
do, 5 f
13 17

09 25 51 y Velorum est. k 2, 3 m

f 30

H 17 W
13 43
-52.2

June 5th 1914

✓ JD 20089

1345
091365 RU Carinae est
4 32 -66.4
433W
C'0, 3f 1346

1347
091868 RW Carinae est
429 -68.8
432W
12.8 = var = m both seen with difficulty 1349

1350
092962 R Carinae est 9.2
421 ✓ -62.7
422W
1352

1353
094953 Z Velorum
404 l = 10.5 -54.2
10.8 406W
10.9 l 3, 0 l² l² = 10.9 1357
10.85 or 10.8

095468 RR Carinae est 8.2
-58.8
405W
1400

June 5th 1914

095563 RV Carinae est

-64.0

4 10W

05 Var 14 05

100661 S Carinae est 5.7

-61.6

4 01W

14 07

101058 Z Carinae est.

-57.8

g 0 var 4 02W

14 13

101153 W Velorum est

-54.6

4.05 W

δ 3, 18' 12.7 p = 12.0 14 17

12.9 p' = 13.0

12.6

1418

11 03 61 RS Carinae

3 15 3 15W

-62.0

η 3 N 14 20

RS Centauri 11 16 61 est -61.6

c?
20, 5d

308W
1424

---

14 24
W Centauri 11 50 58
2 34

-59.2
2 35W

k 3, 3 l

1425

---

14 26
X Centauri 11 44 41
2 42

-41.7
2 46 W

a 3, 3 b

---

14 31
RZ Carinae 10 32 70
3 59

-70.7
4 05 W

l 5, N = <13.2

1436

C bor C

This book all ledgered at avg.

L.C.

1915 / 4 / 13.