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Thursday. June 14, 1894

Corrections to Circles. Clymer. Obs.

Upper Edge δ Virginis. Obs. H.A at. $14^h\ 14^m$ $= 0^h\ 16^m$ W.
" " R.A. $= 13\ 19^m$
$0^h\ 55^m$ W = cor. H.A.
$0\ 16^m$ "
$+0\ 39^m$ = Cor.

Lee. δ ~~Bootis~~ Virginis Obs. = +25°.0
" " " = +19°.8
+ 5°.2 = Cor.

Upper Edge δ Bootis Obs. H.A at $14^h\ 20^m$ $= 0^h\ 29^m$ E
" " R.A. $= 14\ 10^m$
$0\ 10^m$ W. = H.A.
$0\ 29^m$ E
$+0\ 39^m$ = Cor.

Obs. dec. δ ~~Bootis~~ Virginis = +5°.2
" δ " " = −10°.5
+5°.3 = Cor.

∴ Cor. to H.A = $+0\ 39^m$.
" " Dec. = −5°.2

δ Bootis — for indices to Hour circles.
East Vernier ~~Mid~~ H.A. of Middle of Vernier at $15^h\ 57^m$ = at $1^h\ 47^m$ W.
West vernier H.A. " " " = $15\ 57$ = $1^h\ 48.5$ W.
Dec. Middle of vernier = at 10 on vernier = 17°.8

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Thursday. June. 14, 1894.

For personal equation. found two *s of nearly equal brightness. and compared them first ~~one~~ ~~as~~ with the naked eye on west side of pier.

R. Hand. * 2 grades fainter than * on left. East side of pier.

same stars have the same ratios.

Comp. not very good as it is growing hazier all the time.

has been hazy all evening.

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1894phae.proj...527C

Wednesday June 20, 1894

Out on rough indices.

I identified the following regions.

R. Ursae Maj. R. seen. ~~not seen~~
x not certainly seen.

T. Ursae Maj. ~~P~~ p ~~certainly~~ seen.
q. suspected at times T. not certainly seen

S. Ursae Maj. S. brt.

S. Bootis. S. brt.

R. Coronae.
Region identified. R. not seen?

R. Ursae Min. R. easily seen.

R. Draconis. R.?

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1894phae.proj..527C

Monday July 2, 1894

Setting the Indices.

S. Urs. Maj.

♀ of Mr. Wendell's faint chart seen at about limit of visibility.

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1894phae.proj...527C

Thursday July 5, 1894

Practised with instrument until familiar with it.

Identified S. Ursa Maj. region. (Aurora)
" R. Draconis "

For Limit of visibility, using Mr. Wendell's faint chart,
Could see about three grades fainter than ♎. in region of R. Draconis.
East Time 12h 30m Seeing good Pr. Ste.
Identified region of R. Camelop

Aurora only lasted a few minutes, and was rather faint, with but two or three streamers.

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1894phae.proj..527C

Monday July 9, 1894.

Moonlight.

S Caphei C. obs.

m of Mr. Wendell's ft. Chart seen at about limit of vis. & 4 grades brighter than m.

9 25

7. Cephei.

C. Obs.

9 42 n of Mr. Wendell's ft Chart. 3 grades bstr. than o. p suspected but not certainly seen.

S. Bootis.

found a great deal of dust on eyepiece. wiped it off. seeing m

11 35 m 4 n. C. obs.

R. Draconis.

11 05 o 3 p. C. Obs.

---

11 30 Faint stars identified. Waitobs.

s seen; at about limit of visibility.

~~Alt. = 31.5 Abs. =~~ Z.D. = 31.5 Abs. = 0.05

S. Cephei.

$19^h \quad -3^m$ Waite obs.

$21 \quad 37$

$-2 \quad 34$

12 00 o 3 Z.D. = 34.2 Abs. 0.04

~~Alt. = 34.2~~

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1894phae.proj...527C

Monday, July 9, 1894.

T. Cephei.

19 30
21 8
−1 38.

12 30 t = Watched by

Z.D. = 27.6 Obs. 0.03

R. Ursa. Maj

12 40. Watched by

P 1

Faint stars observed in above as far as possible. Seeing very good except for R. Ursa. Maj. when it was rather poor. Z.D. = 64.4 Obs. = 0.35

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1894phae.proj..527C

Saturday, July 14, 1894.

Polar Region.

Identified region, near pole of which a chart is given in "A Request to Astronomers". Waite Obs.

Of the faint stars saw δ.
Just after seeing δ, clouds covered the region making further observations impossible. Moon.

Region again visible for a moment
Saw δ plainly, and α faintly.

δ Bootis

11	30	14	20	+54°.3	Waite Obs.
		19	25		
		5	5		

Cloudy. Abandoned.

δ Cygni.

11	45	20	3	+57°.7	Waite Obs.
		19	33		
		0	30		

Cloudy. Abandoned.

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1894phae.proj...527C

Wednesday, July 18, 1894.

Polar Region. Waite Obr.

11 15 Identified region and saw star b. Moon bright and seeing poor.

R. Ursa. Maj. Waite Obr.

11 30 10 38 +69°.3

19 23

+ 8 45

Identified region. Variable not seen. Moon bright.

T. Cephei Waite Obr.

11 45 21 8 +68°.1

19 45

- 1 23

Identified region. Cloudy Variable not seen?

R. Draconis. Waite Obr.

12 00 16 32 +67°.0

20 5

3 27

Identified region Var. not seen

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1894phae.proj..527C

Wednesday, July 18, 1894

12 30 S. Cass.

1	12	+72°.1	Waite Obs.
20	34		
-4	38	Region not surely identified.	

Moon bright and haze during observations.

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Wednesday, Aug. 1, 1894.

T. Ursa Maj.

11	30	12	30	+60° 17'	Waite Obs.
		20	30		
		8	00	Cloudy	Abandoned.

S. Cygni

11	45	20	2	+57°.6	Waite Obs
		20	45		
		0	43	Cloudy	Abandoned.

S. Cassi

12	00	1	9.	+71°.8	Waite Obs.
		2	00		
		-4	9	Cloudy	Abandoned.

Too cloudy to do more.

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1894phae.proj..527C

Monday Aug. 6, 1894

$\mathfrak{I}$ Urs. Maj.

18	20	+ 60.3
12	30	
5	50	

Stopped by clouds.

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1894phae.proj..527C

~~Tuesday~~
Monday. Aug. 14, 1894

Clouds in northern regions at 8:10.
9:30 Cloudy.

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1894phae.proj..527C

Friday Aug. 17, 1894

J Cass.

0	15
17	35
6	40 E

C obs. = Clymer

+55°

8;15 K 3 J 2 l.

J Urs. Maj.

12	31
18	20
5	49

C obs.

+60°.

8:40 J = C (?) if region properly identified

S. Urs. Maj.

12	39
18	44
6	05.

+61.6

8 ; 51 d 2 S, S 3 E.

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1894phae.proj..527C

Friday. Aug. 17, 1894

S Bootis. C. obs.

14	18	+54.0
18	55	
4	37	

Var. not certainly seen. Moon very bright.

R. Camelop. C. obs.

14	25	+84.3
19	30	
5	05	

9:37 Cloudy in this region.

T. Cephei.

21	08	+68°.00.
20	00	
1.	08	

Var. very bright.

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1894phae.proj..527C

Friday, Aug. 17, 1894.

R. Draconis.

11 30 16 32 17 +67.4 Waite Obs.

21 37

5 5

Bright moon and light clouds

R not seen.

S. Ursæ Maj.

12 37 35 +61.9 Waite Obs.

22 15

9p 38

12 10 d | S Clouded over before finding e

Variable reddish color

Cloudy - at 1h 00

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Saturday, Aug. 18, 1894.

T. Ursæ Maj.

12 29 47 +60°.3 Waite Obs.
19 25
6 55

9 30 ~~c l S 4 d~~ c l S S 4 d.

S. Ursæ Maj.

12 37 35 +61°.9 Waite Obs.
19 40
7

9 40 d^2 2 S S 3 e

S. Cassr

1 9 4 +71.8 Waite Obs.
20 10
-4 59

10 20 (k 4 S S l l)?
r at about limit of visibility.
Moon bright.

S. Cygni.

20 2 28 +57°.6 Waite Obs.
20 30
28

10 40 S. not seen.
m at about limit of visibility.

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Saturday, Aug. 18, 1894.

R. Ina May.

10 34 19 +69°.5 Waited Obs.
20 55
10 21

10 55 R. suspected.

Hazy in this region.
Bright Moon during all
of above observations.

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1894phae.proj..527C

Thursday, Aug. 23, 1894.

S. Ins. Maj.

12 38 +67.°9 Waite Obs.
18 55
6 17

8 35 d 3 S S 2 e Hazy.

I. Ins. Maj.

12 30 +60.°3 Waite Obs.
19 00
6 30

8 42 e 2 I I 3 d Hazy

I. Cephei

21 8 +67.°9 Waite Obs.
19 15
-1 53

9 5 a 1 I I 4 br. Hazy

S. Cephei.

21 37 +78.°0 Waite Obs.
19 30
-1 53

9 30 d 1 S S 4 e Hazy

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1894phae.proj..527C

Thursday, Aug. 23, 1894.

S. Cass.

~~19~~ 1 9 +71.°8 Waite Obs.

20 10

– 4 59

10 12 g 2 S S 3 h Hazy.

K. Draconis

16 32 +67.°1 Waite Obs.

20 40

4 8

10 35 h 3 K K 2 k. Still Hazy

R. Aur. Min.

16 32 +72.6 Waite Obs.

21 00

4 28

10 45 d 3 R R 2 e

S. Bootis.

14 18 +54.°5 Waite Obs.

21 15

6 57

11 02 S not seen. Hazy. Moon. Haze rather heavy during the evening and caused difficulty in identifying some of the regions.

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1894phae.proj..527C

Friday, Nov. 2, 1894.

T. Cass.

	0 15		+55°.0	Waite Obs.
	23 30			
8 25	-0 45			

Alt. high. Tel. came against pier before finding var.

T. Mus. Maj.

	12 30		+60°.3	Waite Obs.
	23 55			
8 50	-12 35			

Region low and hazy. Could not identify.

R. Lyncis

	6 49		+55°.5	Waite Obs.
	0 05			
9 10	-6 44			

Var = star g.

S. Cygni.

	20 2		+57°.6	Waite Obs.
	0 20			
9 30	+4 18			

Var. not seen. Region very hazy.

1 comp.

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Friday, Nov. 2, 1894.

Ti Cephei.

21 8 +67°9 Waite Obs.
0 40
+3 32

9 50 C 2 V, V 3 d.

S. Cassi.

1 9 +71°8 Waite Obs.
1 20
+0 11

10 30 Too cloudy in this region.

10 45 Too cloudy to do anything.

2 comps.

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1894phae.proj..527C

Monday, Nov. 19, 1894.

R. Ursæ Min.

16	32	+72°.6	Waite obs.
0	00		
7	28		

8 00 c 4 V, V 1 d

S. Cephei.

21	37	+78°.0	Waite obs.
0	20		
2	43		

8 15 d 1 V, V 4 e.

K. Cass.

23	51	+50°.6	Waite obs.
0	30		
0	41		

8 30 V = n

T. Cephei.

21	8	+67°.9	Waite obs.
0	45		
3	37		

8 40 d 1 V V 4 e

7 comps.

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1894phae.proj..527C

Monday, Nov. 19, 1894

S. Cass.

1	9	+71°.8	Waite obs.
1	45		
0	36		

10 00 C 4 V, V 1-d.

Found trouble in identifying comparison star d.

K. Antojas

5	6	+53°.6	Waite obs.
2	20		
2	46		

10 15 V not seen.

T. Ina. Maj.

12	30	+60°.3	Waite obs.
2	30		
10	00		

10 20 Pole of weather-vane interferes.

K. Nac. Maj.

10	34	+69°.5	Waite obs.
3	34		
8	00		

10 30 n 4 V, V +10

A bright meteor passed very near vane at about 10:28

4 comps.

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1894phae.proj..527C

Monday, Nov. 19, 1894.

R. Lyncis

6	49	+55°.5	Waite obs.
2	45		
−4	4		

10 40 Var. not seen at first. V = g

S. Persei

2	12	+57°.9	Waite obs.
2	55		
0	43		

10 50 Dark Lantern oil gave out before comparing var. No more time.

1 comp.

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Tuesday, Nov. 27, 1894.

S. Persei.

2	12	+57°.9	Waite obs.
0	44		
-1	28		

8 10 f 3 V, V 2 g.

S. Boötis

14	18	+54°.5	Waite obs.
1	00		
10	42		

8 20 V not seen. Sky hazy in this region.

K. Camelop.

14	29	+84°.5	Waite obs.
1	8		
10	39		

8 30 b 2 V, V 3 c.

K. Draconis.

16	32	+67°.1	Waite obs.
1	15		
8	43		

8 40 g 4 V, V 1 h

6 comps.

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1894phae.proj..527C

Tuesday, Nov. 27, 1894.

S. Cygni.

20	2		+57°.6	Waite obs.
1	30			
5	28			
9 00	S. not visible.		Very faint.	

R. Urs. Min.

16	32	+72°.6	Waite obs.
2	00		
9	28		
9 28	Var. = star-d.		

S. Cephei.

21	37	+78°.0	Waite. obs.
2	15		
4	38		
9 40	-d / V, V He.		

R. Lyncis.

6	49	+55°.5	Waite. obs.
2	25		
-4	24		
9 50	V = -9.		

4 comps.

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Tuesday, Nov. 27, 1894.

T. Ophei.

21 8 +67°.9 Waite obs.
2 37
5 29

9 58 d 3 V, V 2 e.

S. Urs. Maj.

12 38 +61°.9 Waite obs
3 00
9 38

10 23 Var. not seen. Hazy in region and region low

T. Urs. Maj.

12 30 +60°.3 Waite obs
3 10
9 20

10 30 Var. not seen. Region hazy and low.

R. Urs. Maj.

10 34 +69°.5 Waite obs.
3 15
7 19

10 40 ~~V~~ 2 V (H), V (HH) 3 10.

4 comps.

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Tuesday, Nov. 27, 1894.

S. Cass. 1 9 +71°.8 Waite. obs.

3 30

2 21

10 53 C 4 V, V 1-d.

2 comps.

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1894phae.proj..527C

Wednesday, Nov. 28, 1894.

R. Aurigae.

5 6 +53°.4 Waite obs.
0 40
— 4 26

8 10 Not seen.

T. Cephei.

21 8 +67°.9 Waite obs.
1 0
3 52

8 20 d 3 V, V 2 a.

S. Persei

2 12 +57°.9 Waite obs,
1 17
0 55

8 30 f 3 V, V 2 g

T. Persei.

2 12 +58°.5 Waite obs
1 30
0 42

8 50 e 1 V, V H f

6 comps.

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1894phae.proj...527C

Wednesday, Nov. 28, 1894.

T. Ursæ Maj. +60°.3 Waite obs.

12	30
1	40
−10	50

8 59 Var not seen Region bare.
Could see about 5 grades fainter
than star m.

S. Ursæ Maj +61°.9 Waite obs.

12	36
1	55
−10	41

9 15 Var. not seen. m 5

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1894phae.proj..527C

Monday, ~~Nov.~~ December. 3, 1894.

T. Cephei.

21 8 +67°.9 Waite obs.
0 50
3 42

7 55 -d 4V, V 1e Some moon.

R. Ursæ Min.

16 32 +72°.6 Waite obs.
1 00
8 28

8 5 -d 1V, V 4e.

R. Ursæ Maj.

10 34 +69°.5 Waite obs.
1 10
-9 24

8 15 -g 3V, V 2R.

S. Cephei.

21 37 +78°.0 Waite obs.
1 20
3 43

8 25 -d 1V, V He.

8 comps.

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Monday, December 3, 1894.

S. Cygni.

20 2
1 30
5 28

+57°.6 Waite obs.

8 30 S not seen. Very faint.

R. Cam. = R Camelopardis.

14 29
1 35
11 6

+84°.5 Waite obs.

8 37 b 3V, V 2 c

S. Cass.

1 9
1 40
0 31

+71°.8 Waite obs.

8 43 c 4 V, V 1 d

T. Cass.

0 15
1 50
1 35

+55°.0 Waite obs.

8 55 Var. not seen. Time limited, so that region was not surely identified

4 comps.

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1894phae.proj..527C

Tuesday, Dec. 4, 1894.

R. Draconis.

16 32 +67°.1 Waite obs.
1 25
8 53

8 20 -g 4 V, V, h.

S. Boötis

14 18 +54°.5 Waite obs.
1 40
11 22

8 35 Var. not seen.

S. Persei.

2 12 +57°.9 Waite obs.
1 50
0 22

8 50 f 3 V, V 2 g.

R. Urs. Maj.

10 34 +69°.5 Waite obs.
2 00
8 34

9 05 g(2) 3 V, V 2 r g(2) assumed to be g

6 comps.

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1894phae.proj...527C

Tuesday, Dec. 4, 1894.

D

T. Cass.

0 15 +55°.0 Waite obs.

2 20

2 05.

9 25 Var. not seen.

T. Tus. Maj.

12 30 +64°.3 Waite obs.

3 30

9 00

10 30 Var. not seen.

S. Tus. Maj.

10 35 Var. not seen.

R. Cass.

23 51 +50°.6 Waite obs.

3 40

3 49

10 40 m 4V, V 1m

Found index a little out and readjusted one toward the east. One toward the west is loose and will need fixing.

2 comps.

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Thursday
~~Wednesday~~, Dec. 6, 1894.

R. Cam.

14 29 +84°.5 Waite obs.
1 30

11 1

8 25 hr 3 V, V 2 c.

S. Cephei

21 37 +78°.0 Waite obs.
1 40

4 3

8 32 d 2 V, V 3 e

R. Leo Min.

16 32 +72°.6 Waite obs.
1 48

9 16

8 37 d 1 V, V 4 e

T. Cephei.

21 8 +67°.9 Waite obs.
1 54

4 46

8 41 d 4 V, V 1 e

8 comp.

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1894phae.proj...527C

Thursday
~~Wednesday~~, Dec. 6, 1894.

R. Cass.

2	3	5	1	+50°.6 Waite obs.
1		5	8	
2		7		

8 47 k 4 v, v 1 l.

R. Draconis.

16	32		+67°.1
2	4		
9	32		

8 54 g 4 v, v 1 h.

S. Cass.

0	15		+55°.0 Waite obs.
2	10		
1	55		

9 00 Var. suspected. About equal to, or fainter than star 0.

S. Cass.

1	9		+71°.8 Waite obs.
2	15		
1	6		

9 06 c 4 v, v 1 d.

6 comps. +1

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1894phae.proj..527C

Thursday
~~Wednesday~~, Dec. 6, 1894.

R. Ursæ Maj.

10 34 +69°.5 Waite obs.
2 22
— 8 12

9 15 Var. not certainly seen. Must be fainter than star g.

R. Aurigæ.

5 6 +53°.4 Waite obs.
2 30
— 2 36

9 23 Var. not seen. star o at about limit of visibility.

R. Lyncis.

6 49 +55°.5 Waite obs.
2 40
— 4 9

9. 30 Var. = star n. In observations of preceding evenings have mistaken a star about equal to g for the var.

S. Persei.

2 12 +54°.9 Waite obs.
2 50
0 38

9 39 f 3 V, V 2 9 3 comps. +2

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1894phae.proj...527C

Thursday, Dec. 6, 1894.

T. Persei.

+58°.5 Waits obs.

2	12
2	55
0	43

9 44 c 4v, v 1d. Portion of this var not given on chart, so took 1900 position from var. star book.

S. Cygni.

+57°.6 Waits obs.

20	2
3	04
4	2

9 50 Var not seen. Very faint.

S. Bootis.

+54°.5 Waits obs.

14	18
3	08
11	10

9 55 Var not seen and moon. Region very low. Star f at about L. T.

2 comps +1

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1894phae.proj..527C

Thursday, Dec. 6, 1894

T. Ins. Maj.

12	30		+60°.3	Watts obs.
3	14			
−9	16			
10	00	Var. susps. Region low and hazy, and var. must be faint.		

S. Ins. Maj.

12	38		+61°.9	Watts obs.
3	20			
−9	18			
10	8	Var. not seen. Region low and hazy, and var. faint.		

Moon on second quarter during above observations.

R. Tauri.

4	20		+9°.8	Watts obs.
3	30			
−0	50			
10	20	Var. not seen.		

S. Tauri.

4	21		+9°.6	Watts obs.
3	35			
−0	46			
10	28	Var. not seen.		

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1894phae.proj...527C

Thursday, Dec. 6, 1894.

S. Aurigae.

5h 18m
3 45
— 1 33

+34°.0 Waite obr.

10 33 Found chart not lettered. Var. equals star in the position, by chart, +33° 58' dec., 5h 17m 15s =

R. Geminorum.

6 59
3 55
— 3 4

+22°.9 Waite obr.

10 45 Var. not seen.

R. Monocerotis.

6 31
4 06
— 2 25

+8°.9 Waite obr.

10 55 Var not seen, although nebula was easily seen.

Moon in above obs. also some cloudiness, mostly in North.

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1894phae.proj..527C

Thursday, Dec. 13, 1894.

S. Aquarii

22	49	−21°.1	Waite obs.
1	20		
2	31		

7 37 Region cloudy, abandoned.

S. Ceti.

0	17	−10°.1	Waite obs.
1	25		
1	08		

7 47 ∱ 3V, V = 9.

R. Andron.

0	16	+37°.8	Waite obs
1	35		
1	19		

8 00 Very, not clear. Star is at about L. V. on account of heavy haze and moon almost full.

O Ceti.

2	12	−2°.6	Waite obs.
1	50		
− 0	22		

8 15 Region all cloudy abandoned.

2 comp.

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1894phae.proj..527C

Thursday, Dec. 13, 1894.

W. A. 35:118. S. Supposed variable. Waite obs.

W

W. A. 35:117

E

• W. A. 35:121

N

9 00 Region all cloudy before finding supposed variable.

T. Cephei.

21	8
3	8
6	00

+67°.9 Waite obs.

9 25 var = star e.

S. Cass.

1	9
3	10
2	1

+71°.8 Waite obs.

9 33 var = star d.

Cloudy and bright moon in clear intervals.

2 comps.

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1894phae.proj...527C

Saturday, Dec. 15, 1894.

χ Cygni.

19 45 +32°.6 Waite obs.
2 00
6 15

8 25 e 2 V, V 3 f.
Some trouble in identifying comparison stars.

T. Cephei.

21 8 +64°.9 Waite obs.
2 22
5 14

8 38 e 3 V, V 2 f.

R. Piscium.

1 23 +2°.1 Waite obs.
2 30
1 7

8 50 Var. not seen.

R. Andromedæ.

0 16 +37°.8 Waite obs.
2 50
2 32

9 05 Var. not seen.
Star is easily seen.

2 comp +1

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1894phae.proj..527C

Saturday, Dec. 15, 1894.

R. Ceti.

2 19 — 0°.8 Waite obs.
3 05
0. 46

9 25 Var. not seen. faint.

R. Camerii.

8 9 +12°.2 Waite obs.
3 20
4 49

9 45 d 3 V, V 2 e. Trouble in finding star d.

R. Arietis

2 8 +24°.5 Waite obs.
3 50
1 42

10 10 Var. not seen, faint Bright moon

S Cam. Mira.

7 25 +8°.6 Waite obs.
4 10
3 15

10 30 e 3 V, V 2 f.

4 comps.

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1894phae.proj..527C

Saturday, Dec. 15, 1894.

V. Canori.

8 13 +17°7 Waite obs.
4 25
-3 48

10 35 Region all cloudy.

S. Bootis

14 18 +54°5 Waite obs
4 30
-9 48

10 40 Region too cloudy, abandoned.

R. Leo. Min.

9 37 +35°2 Waite obs.
4 40
-4 57

10 50 Abandoned. too cloudy.

Too cloudy to do more.

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1894phae.proj...527C

Tuesday, Dec. 18, 1894.

S. Aquarii, Waite obs.

22 49 −21°.1
23 30
0 41

5 45 Var. not seen, suspected.

T. Aquarii.

20 42 − 5°.7 Waite obs.
23 50
3 8

5 55 Var. not seen.

R. Delphini

20 8 +8°.7 Waite obs.
1 30
5 22

7 35 l 2 V, V 3 m

T. Ophei.

21 8. +67°.9 Waite obs.
1 40
4 32

7 45 e 3 V, V 2 f.

4 comps.

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1894phae.proj..527C

Tuesday, Dec. 18, 1894.

X Cygni.

19 45 +32°.6 Waite obs.
1 50
6 5

7 52 e 1V, V 4ff.

R. Cygni.

19 33 +49°.9 Waite obs
2 00
6 27

8 10 Var = star n No glows on charts

U. Cygni

20 15 +47°.4 Waite obs.
2 15
6 00

8 20 Var. suspected. Bright star close, and could not be certain of seeing var. Var. faint

V. Cygni.

20 36 +47°.6 Waite obs
2 25
5 49

8 30 Var. not seen. Very faint. Star m easily seen.

3 comps. + 1,

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1894phae.proj...527C

Tuesday, Dec. 18, 1894.

R. Vulpeculae

21 00 +23°.2 Waite obs.
3 10
6 10

9 20 e 3 V, V 2 f.

R. Pegasi.

22 59 +9°.8 Waite obs.
3 30
4 31

9 45 Var. = star p. Region somewhat hazy.

S. Pegasi.

23 13 +8°.1 Waite obs.
3 50
4 37

9 55 Var. not seen, region too hazy.

V. Camelo.

8 13 +17°.7 Waite obs.
4 10
4 3

10
9 20 Var. about equal to star p.
Region hazy.

4 comps.

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1894phae.proj..527C

Tuesday, Dec. 18, 1894.

T. ∇ S. Hydrae Waite obs.
Examined both regions, but too much haze.

S Ophei.

21 37
4 30
6 53 +78°.0 Waite obs.

10 40 Too cloudy. Abandoned.
Heavy haze and clouds all about.

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1894phae.proj...527C

Wednesday, Dec. 19, 1894.

κ Cygni.

19 45 +32°.6 Waite obs.

1 25

5 40

7 30 e 1 V, V 4 f.

T. Cephei

21 8 +67°.9 Waite obs.

1 40

4 32

7 40 e 4 V, V 1 f.

S. Cephei.

21 37 +78°.0 Waite obs.

1 48

4 11

7 49 f 1 V, V 4 g.

K. Draconis.

16 32 +67°.1 Waite obs.

1 55

9 23

7 55 Var. 2 m

No m on chart

7 comps.

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1894phae.proj..527C

Wednesday, Dec. 19, 1894.

R. Cass.

14 29 +84°.5 Waite obs.
2 5
11 36

8 5 d 3 V, V 2 e

S. Cygni.

20 2 +57°.6 Waite obs.
2 15
6 13

8 12 Var. not seen. Faint.

Limit of visibility observation for to night. Region of S. Cygni.

8 15 Star o at limit.

T. Cass.

0 15 +55°.0 Waite obs.
2 25
2 10

8 25 m 3 V, V 2 n

S. Cass.

1 9 +71°.8 Waite obs.
2 32
1 23

8 32 c 3 V, V 2 d

6 comps. +1

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1894phae.proj...527C

Wednesday, Dec. 19, 1894.

~~R. Pers. Trim.~~

R. Pers. Trim.

16 32 +72°.6 Waite obs.
2 40
10 8

8 40 d 3 V, V 2 e,

R. Cassi.

23 51 +52°.6 Waite obs.
2 46
2 55

8 48 l 4 V, V 1 m.

S. Persei.

~~f 4~~ 2 12 +57°.9 Waite obs.
2 55
0 43

8 57 f 3 V, V 2 g.

T. Persei.

2 9 +58°.3 Waite obs.
3 10
1 1

9 8 d 3 V, V 2 e

Above position of T. and comp. stars taken from S. Persei chart as there is no separate chart for T. Persei.

8 comps.

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1894phae.proj...527C

Wednesday, Dec. 19, 1894.

R. Aurigae

5 6 +53°.4 Waite obs.
3 20
— 1 46

9 20 Var. not seen. Faint.

R. Lyncis.

6 49 +55°.5 Waite obs.
3 30
— 3 19

9 32 m 3 V, V 2 O.

R. Ursæ Maj.

10 34 +69°.5 Waite obs.
3 40
— 6 54

9 40 L 2 V, V 3 2

S. Ursæ Maj.

12 38 +61°.9 Waite obs.
3 50
— 8 48

9 52 m 3 V, V 2 m



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1894phae.proj...527C

Wednesday, Dec. 19, 1894.

T. Ursæ Majoris +60°.3 Waite obs.

12 30
4 50
8 30

10 5 Var. susp. About equal to or fainter than star p.

R. Andromedæ +37°.8 Waite obs.

0 16
4 15
3 59

10 17 Var. not seen. Fainter than star a.

S Ceti. −10°.1 Waite obs.

0 17
4 25
4 8

10 25 f 2 r, r 3 g.

S. Can. Min. +8°.6 Waite obs.

7 25
4 32
2 53

10 33 e 3 r, r 2 f

5 comps.

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1894phae.proj..527C

Wednesday, Dec. 19, 1894.

R. Cancri.

8 9 +12°.2 Waite obs.
4 40
3 29

10 45 e 2 V 1 V 3 f.

R. Tauri.

4 20 +9°.8 Waite obs.
5 00
0 40

11 00 Var. not seen.

S. Tauri.

4 21 +9°.6 Waite obs.
5 10
0 ~~49~~

11 10 Var. not seen.

R. Piscium

1 23 +2°.1 Waite obs.
3 18
3 55

11 20 Var. not seen.

2 comps.

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1894phae.proj...527C

Wednesday, Dec. 19, 1894.

R. Arietis

+24°.4 Waitz obs.

2 8
5 25
3 17

11 28 Var. seen, but faintly. Much fainter than star L, which is faintest on chart.

R. Geminorum

+22°.9 Waitz obs

6 59
5 35
1 24

11 37 Var. susp. at about limit of visibility. Much fainter than m (faintest on chart)

R. Ceti.

-0°.8 Waitz obs.

2 19
5 45
3 26

11. 50 Var. faint. Fainter than star L on chart.
Should think about 11th magn.

T. Canerum.

+17°.7 Waitz obs.

8 13
6 05
2 8

12 8 3 Var.

1 comp + 2

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1894phae.proj..527C

Wednesday, Dec. 19, 1894.

o Ceti.

2 12
6 15
4 3

− 3°.6 Waite obs.

12 20 η 3 r, r 2 θ. v

S. Hydrae.

8 46
6 27
− 2 19

+ 3°.6 Waite obs.

12 30 e 2 r, r 3 f.

S. Bootis.

14 18.
6 40
− 7 38

+ 54°.5 Waite obs.

12 50 h 2 r, r 3 k

R. Leo. Min.

9 37
4 10
− 2 27

+ 35°.2 Waite obs.

13 20 − 9 3 Var.

Moon rising. (passed 3/4)

7 comps.

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Wednesday, Dec. 19, 1894.

R. Leonis.

9 40 +12°.1 Waite obs.
7 30

— 2 10

13 32 l 4 r, r 1 m.

X Virginis

11 54 +9°.9 Waite obs.
7 40

4 14

13 41 k 3 r.

R. Comae Ber.

11 57 +19°.6 Waite obs.
7 50

— 4 7

13 57 Var not seen.

T. Virginis.

12 4 -5°.2 Waite obs.
8 00

— 4 7

14 2 -2 Var. not seen. Moon near.

3 comps.

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1894phae.proj..527C

Wednesday, Dec. 19, 1894

R. Corvi.

12 12 −18°.4 Waite obs.
8 13
−3 57

1C
2 22 Region dim and somewhat hazy
Var. not seen.

R. Virginis

12 31 +7°.8 Waite obs.
8 30
−4 1

1C
2 35 f1 V, V H g,

Q. Virginis

12 26 −3°.6 Waite obs.
8 45
−3 41

1C
2 50 Could not identify region on account of nearness of moon, haze etc.

2 comps.

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1894phae.proj..527C

Saturday, Dec. 29, 1894.

Some frozen. Cleared groves of ice until dome would revolve.

Tm. P. 4441.

3 28 + 62° Waite &c
3 00
0 28

8 25 (D.M. +63° 437) 1 Var, Var 2 (+63° 436)
Examined comp. stars for intervals somewhat alt. high and measurements rather difficult. Should think Tm. Reed's pigmeee good.

χ Cygni

19 45 +32°.6 Waite &c.
3 20
7 35

8 40 Var. = star a.

Region very low, images large and blurry, causing some trouble in making estimates.

3 comps.

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1894phae.proj...527C

Saturday, Dec. 29, 1894.

T. Cephei.

21 8 +67°.9 Waite obs.
3 30
6 22

8 50 -g 3 v, v 2 h

S. Bootis.

14 18 +54°.5 Waite obs.
3 40
-11 22

9 00 h 2 v, v 3 k.
Region very low.

R. Ceti.

2 19 -0°.8 Waite obs.
4 10
1 51

9 35 k 2 v, v 1 l.

R. Gem.

6 59 +22°.9 Waite obs.
4 30
2 29

9 50 Var. not seen. Faint

6 comps.

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1894phae.proj..527C

Saturday, Dec. 29, 1894.

R. Tauri.

4 20 21 + 9°.8 Waite obs.

4 40

0 20

10 00 Var. not seen.

S. Tauri.

10 5 Var not seen. Waite obs.

R. Camer.

8 9 + 12°.2 Waite obs.

4 5

−3 14

10 12 e 3 V, V 2 f.

S. Cam. Mira.

7 25 + 8°.6 Waite obs.

5 3

−2 22

10 20 e 2 V V 3 f.

4 comps.

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1894phae.proj..527C

Saturday, Dec. 29, 1894.

V. Canes.

8 13 +17°.7 Waite obs.
5 13
— 3 00

10 28 Var. seen at about 5 grades fainter than star f.

S. Hydrae.

8 46 +3°.6 Waite obs.
5 20
— 3 26

10 35 e l V, V 14 f.

T. Hydrae.

8 49 -8°.6 Waite obs.
5 35
— 3 14

10 50 Var. faint. Fainter than star m.

1 comp. + 2

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1894phae.proj..527C

Tuesday, Jan. 1, 1895.

χ Cygni.

19 45 +32°.6 Waite obs

2 30

6 45

7 40 e 1 V, V 4 f.

K. Draconis.

16 32 +67°.1 Waite obs.

2 40

10 8

7 50 m 4 V, V, 1 0.

No m on chart.

S. Cephei.

21 37 +78°.0 Waite obs

2 50

5 13

7 57 g 4 V, V, 1 h.

K. Ursæ Min.

16 32 +72°.6 Waite obs

3 7

10 35

8 5 e 3 V, V, 1 f

8 comps

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1894phae.proj..527C

Tuesday, Jan. 1, 1895.

S. Cygni.

20 2
3 10
7 8

+57°.6 Waite obs.

8 12 Var. not seen. Faint. Some moon.

T. Cephei.

21 8
3 20
6 12

+67°.9 Waite obs.

8 17 h 1 V, V 4 k.

R. Cass.

23 51
3 25
3 34

+50°.6 Waite obs.

8 25 m 2 V, V 3 m

T. Cass.

0 15
3 30
3 15

+55°.0 Waite obs.

8 35 0 3 V, V about 5 g.

No sp. on chart. g susp. but at L.V.

6 Comp.

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1894phae.proj..527C

Tuesday, Jan. 1, 1895.

S. Cassr

1 9 +71°.8 Waite obs

3 35

2 26

8 42 e 1 $\underline{V}$, $\underline{V}$ 2 f.

σ Persens. Waite obs

9 5 (ε Persens) 2 σ(Per.), σ (Per.) 3 (34 Per.)
(H.P. 4.32) (H.P. 4.77)
∴ σ = 4.50

S. Persei.

2 12 +57°.9 Waite obs

4 10

1 58

9 15 f 1 $\underline{V}$, $\underline{V}$ 4 g.

T Persei.

2 9 +58°.3 Waite obs.

9 28 d 4 $\underline{V}$, $\underline{V}$ 1 e.

K. Aurigae.

5 6 +53°.4 Waite obs

4 30

1 0 36

9 37 Var. not seen. Faint.

6 comps.

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1894phae.proj...527C

Tuesday, Jan. 1, 1895.

R. Lyncis.

6 49 +55°.5 Waits obs.

4 45

2 4

9 53 [p 4 V, V 1.9.]

R. Ursæ Maj.

10 34 +69°.5 Waits obs.

5 00

5 34

10 3 a 1 V, V 2 t.

S. Ursæ Maj.

12 38 +61°.9 Waits obs.

5 8

7 30

10 13 l 3 V, V 2 nn.

T. Ursæ Maj.

12 30 +60°.3 Waits obs.

5 15

7 15

10 22 Var. about equal to O

Region hazy.

6 comps.

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1894phae.proj..527C

Tuesday, Jan. 1, 1895.

R. Cam.

14 29 +84°.5 Waite obs.
5 25
−9 4

10 30 e 2 V, V 3 ff

S. Bootis.

14 18 +54°.5 Waite obs.
5 32
−8 46

10 38 f 2 V, V 3 g.

M. P. 441.

3 28 +62° Waite obs.
5 40
2 12

10 50 (19. M. +63° 437) 1 Var, Var 2 (19. M. +63° 436)

6 comps.

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1894phae.proj..527C

Wednesday, Jan. 2, 1895.

K Cygni.

19 45 +32°.6 Waite obs.
2 30
6 45

7 40 e l Var, Var H f.

R. Draconis.

16 32 +67°.1 Waite obs.
2 40
10 8

7 48 m 4 V, V, V l 0 Star m on chart is probably right as interval is good between that and l and n

T. Cass.

0 15 +55°.0 Waite obs.
2 50
2 35.

7 58 0 3 V, V, V l k.

Star k as placed on the chart seems to be right as intervals are good.

6 comps.

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1894phae.proj...527C

Wednesday, Jan. 2, 1895.

T. Cephei.

21	8	+67°.9	Waite obs.
3	00		
5	52		

8 4 h 1 V, V 4 h.

R. Cygni.

20	15	+47°.4	Waite obs.
3	10		
6	55		

8 12 Var. faint (about 12 mag.)
much fainter than l (faintest observed)

R. Cygni.

19	33	+49°.9	Waite obs.
3	20		
7	47		

8 22 0 4 Var.

R. Vulpec.

21	00	+23°.2	Waite obs.
3	28		
6	28		

8 32 g 1 V, V 4 h.

5 comp. +1

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1894phae.proj..527C

Wednesday, Jan. 2, 1895.

S. Ceti.

0	17	−10°.1	Waite obs.
3	40		
3	23		

8 40 ~~f~~ 4 V, V 1-9.

R. Pegasi.

22	59	+9°.8	Waite obs.
3	50		
4	51		

8 50 Var. not seen. Fainter than star ~~f~~.
Region a little cloudy. Moon.

V. Cygni.

20	36	+47°.6	Waite obs.
4	00		
7	24		

9 00 Var. not seen. ~~m~~ easily seen.

R. Androm.

0	16	+37°.8	Waite obs.
4	10		
3	54		

9 10 Var. not seen. Faint. ~~s~~ easily seen.

2 comp.

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1894phae.proj...527C

Wednesday, Jan. 2, 1895.

S. Pegasi.

23	13	+8°.1	Waite obs.
4	18		
5	5		

9 18 Var. not seen. Fainter than [illegible] which was easily seen.

R. Piscium

1	23	+2°.1	Waite obs.
4	30		
3	7		

9 30 Var. not seen. [illegible] easily seen.

R. Ceti.

2	19	−0.8	Waite obs.
4	40		
3	21		

9 40 k 2 r, r 3 l.

R. Arietis.

2	8	+24°.4	Waite obs.
4	48		
2	40		

9 48 k 2 r, r 2 l

Var. seems to be too far (about 4') south on chart.

4 comps.

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1894phae.proj..527C

Wednesday, Jan. 2, 1895.

R. Tauri.

4 20 +9°.8 Waite obs.
4 57
0 37

9 55 Var. seen. Faint. Fainter than *n*.

S. Tauri

4 21 +9°.6 Waite obs.
5 5
0 24

10 4 *n* 1 Var. No fainter star on chart than *n*.

R. Gem.

6 59 +22°.9 Waite obs.
5 10
1 49

10 9 Var. not seen. Faint.
Star 2 easily seen.

S. Cam. Mira

4 25 +8°.6 Waite obs.
5 15
2 10

10 14 d 3 r, r 2 e.

3 comps

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1894phae.proj...527C

Wednesday, Jan. 2, 1895.

T. Cancri.

8 13 +17°.7 Waite obs.

5 22

-2 51

10 20 ~~Ea~~ fp 2 var.

R. Cancri.

8 9 +12°.2 Waite obs.

5 28

-2 41

10 26 f1 V, V 4-9

S. Hydrae.

8 46 +3°.6 Waite obs

5 35

-3 11

10 32 -d 4 V, V 1 e.

T. Hydrae.

8 49 -5°.6 Waite obs

5 42

-3 7

10 40 Var. fainter than m. and not seen.

5 comps.

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1894phae.proj..527C

Wednesday, Jan. 2, 1895.

o Ceti.

2 12
3 50
3 38

−3°.6 Waite obs.

10 50 J 4 V, r 1 Θ.

2 comp.

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1894phae.proj...527C

Wednesday, Jan. 23, 1895.

S. Cephei.

21 37 +78°.0 Write 82

6 30

8 53

10 20 l 3 V, V 4 m.

2 comps.

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1894phae.proj..527C

Tuesday, Jan. 29, 1895

S. Ephemi

21 37
5 40

8 3

+78°.0 Waite obs

m 1 V V 4 m.

2 comps.

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1894phae.proj...527C

Tuesday, February 5, 1895.

S. Caphen

+78° 0' Waite Ha

21 37
5 10
7 33

8 or k 5 V, V 2 m.

2 comps

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1894phae.proj..527C

Monday Feb. 6. 1894.

Preliminary expts. and estimates on Cercunjolar Variables with 9 inch Equatorial ~~D.S.~~
Attwell obs.

V Cephei.

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1894phae.proj...527C

Feb. 13. 1894.

S Cephei. Attwell Ds.

21	37	+74.3
31	1V	
+9	36	

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1894phae.proj...527C

Wednesday, February 20, 1895.

δ Ursae Majoris.

12 37 +62° Attwill Obs.

7 50

4 47

10 02 V 3 g f 1 V

9 30 R Ursae Majoris.
Variable not seen, too faint.

I Cassiop.

0 15 +55°

2 57

10 56 F 1 V V 3 G

4 comps.

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1894phae.proj...527C

Friday February 22, 1895

R Camelopardi.

14 29 +84,5 Attwill Obs.
6 39
7 50

8 18 Variable 10th faint to be seen

R Lyncis.

5 6 + 53,4
6 53
−1 47

8 43 Variable fainter than 8th.

S Leonis.

~~+51,0~~ + 71,8

1 9
7 35
−6 26

9 18 Variable equal to g. Attwill Obs.

9 25 g 1 V, V g k. Waite obs.

T. Cephei.

21 8 +67°,9 Waite obs.
7 50
10 42

9 33 m 2 V, V 2 m

4 comps,

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1894phae.proj.:527C

Friday, Feb. 22, 1895.

S. Cephei.

21 37 +78°.0 Waite obs.
8 37
11 00

10 15 ~~h~~ 2 V, V 3 m

R. Mus. Maj.

10 34 +69°.5 Waite obs.
9 00
-1 34

10 40 2 2 V, V, t.

R. Mus. Min.

16 32 +72°.6 Waite obs.
9 10
-7 22

10 50 Var = d.

5 comps.

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1894phae.proj...527C

Tuesday, Feb. 26, 1895

R Draconis.

16 3 2 +67°.0 Attwill Obs.
7 41
8 51

9 35 Variable too faint to see.
2 was seen and probably a star 2 grades fainter than 2 could be seen.

R Lyncis

6 49 +55°.5 Attwill Obs.
8 30
1 46

10 05 could not identify region with certainty.

S Bootis

14 18 +54,5 Attwill Obs
8 55
5 23

10 36 Var 3 f e + Var

S Persei

2 12 +58°.0 Attwill Obs.
9 28
7 16

2 comps + 1

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1894phae.proj..527C

Saturday, March 9, 1895

N Cassiopeiae.

7 52 + 71.8 Attwell Obs.
1 9
6 43

8 45 Van 2 K g 3 Van

I Cephei

32 27 + 67.9 Attwell Obs.
21 8
11 19

9 20 Could not identify region.

R Ursae Majoris.

32 50 + 69.5 Attwell Obs.
10 34
22 16

9 30 Moonlight too bright to see variable.

S Persei.

8 58 + 57.9 Attwell Obs.
2 12
6 46

10 30 Moonlight too bright to identify the faint stars of this region.

2 comp.

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1894phae.proj...527C

Saturday, March 9, 1895

δ Bootis.

+5-4.5

Attended Obs.

34	12
14	18
19	~~44~~ 54

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1894phae.proj..527C

Thursday, March 14, 1895.

R Coronæ Borealis.

~~7 25~~
31 25 +84.5 Attwood Obs.
14 29
16 56

8 18 Variable too faint to see. Could be seen if it were 2 grades fainter than g.

S Cygni.

32 07 +57.6 Attwood Obs.
20 12
12 05

8 26 Region obscured by clouds.

R Lyncis Attwood Obs.

8 25 +55.5
6 49
1 36

9 00 Could not identify region.

S Ursæ Majoris.

32 50 +61.9 Attwood Obs.
12 38
20 12

9 22 var 3d C 2 var

2 comps. +1

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1894phae.proj..527C

Thursday, March 15, 1894.

T Cephei.

+67.9

Attwell Obs.

33 13

21 8

125

9 50

V 1 N

N 4 Van

2 comps.

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1894phae.proj..527C

Saturday, March 30, 1895

Suspected Variable (−7° 2783.)

9 36 −7.°5 Attwill Obs.
9 07
−29

8 20 Var = a Var 4 b

N Ursae Majoris.

9 11 +61.°9 Attwill Obs.
12 38
20 33

Var 1 c b 4 Var

N Cygni.

9 44 +57.°6. Attwill Obs.
20 02
13 42.

9 32 Variable two points; could be seen if 2 or 3 grades fainter than g.

10 24 R Aurigae
5 06 +53.°4 Attwill Obs
5 18

9 44 g 1 Var. Var 3 h

6 comps +1.

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1894phae.proj..527C

Saturday, March 30, 1895.

R Camelop.
+84°.5 Attwill Obs.

10 35
14 29

9 55 Variable but faint to see. Could be seen if 1 grade fainter than g.

R Ursae Maj.
+69°.5 Attwill Obs.

10 45
10 34
11

10 17 Variable very faint. About 2 grades fainter than f.

R Draconis.
+67°.0 Attwill Obs.

11 08
16 32
5 24

10 25 Var. but faint to see; could be seen if 2 grades fainter than l.

R Lyncis.
+55°.5 Attwill Obs.

11 17
6 49
4 28

10 41 var 2 k h 3 var

2 comp. + 3

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1894phae.proj..527C

Saturday March 30 1895

S Boston

11 31 +54°5 Attwood Obs.
14 18
2 47

10 57 Var = f

11 50
9 36
2 14 Sunstruck variable Attwood Obs
11 00 V = a Var 4b -7°5

1 comp +1

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1894phae.proj..527C

Thursday April 4, 1895.

8 45
9 36
0 51

Suspected Variable
-7.5° (-7°.783) Attwell Obr.

7 57 Var 2 a Moonlight makes judgement rather difficult.

I Ursae Maj.
+60°.3 Attwell Obr.

12 30
9 15
3 15

8 27 Var 2 f d 3 Var

R Ursae Min.
+72°.6 Attwell Obr.

16 32
9 42
6 50

8 59 d 3 Var Var 2 e

1 09
10 26
9 17

N° 620 Lassiop.
+71.9

9 52 Moonlight prevents identification of regions

5 comp.

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1894phae.proj..527C

Thursday, April 5, 1894

11 07
0 15
10 52

I Camelop. +54.9 Attwell Obs.

10 10 e 3 var var 2 f

N Cephei.

17 20
21 36
13 44

+77.9 Attwell Obs

10 30 Could not identify region.

11 40
9 37
2 03

Suspected variable. -1.5 Attwell Obs

10 33 Region is covered by clouds.

2 comps.

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1894phae.proj..527C

Wednesday, Apr. 10, 1895.

S. Ins. May.

12 30 +69.3 Waite obs.
10 20
2 10

9 00 e 2 V, V 2 ff.

9 00 Low auroral-arch in North about 6 or 7 degrees high. Center about north.

S. Ins. May.

12 38 +61.9 Waite obs
10 30
2 8

9 05 d 3 V, V 2 e

R. Cam.

14 29 +54.5 Waite obs.
10 40.1
3 49

9 15 Cam not seen. Could easily see 5 grades fainter than ζ which is faintest star on chart.

4 comp. +1

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1894phae.proj...527C

Wednesday, Apr. 10, 1895.

S. Bootis

14 18 +54°.5 Waite obs.
10 50
−3 28

9 23 f, V−1, V−3 g.

R. Cassiopeiae.

23 51 +50°.6 Waite obs.
10 58
11 7 ~~5~~ 3

9 28 Var. not seen. Region very low and hazy. Also moon. Abandoned.

T. Cass.

0 15 +55°.0 Waite obs.
11 04
10 49

9 33 Region too low. Abandoned.

R. Aurigae.

5 6 +53°.4 Waite obs.
11 6
6 00

9 38 Var. = g.

3 comps.

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1894phae.proj...527C

Wednesday, Apr. 10, 1895.

T. Persei.

2 12 +57°.9 Waite obs
11 20
9 8

9 55 c 2 v, v 3 -d.

S. Persei.

2 12 +57°.9 Waite obs.
11 30
9 18

10 04 v au = g.

R. Draconis.

16 32 +67°.1 Waite obs.
11 40
- 5 52

10 10 m 2 v, v 3 m

R. Lyncis.

6 49 +55°.5 Waite obs
11 45
4 56

10 18 f 1 v, v 4 g.

7 comps.

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1894phae.proj..527C

Wednesday Apr. 10, 1895.

R. Ursæ Maj.

10 34 +69°.5 Waite obr
11 50
1 16

10 28 m 1 V, V 2 O.

R. Ursæ Min.

16 32 +72°.6 Waite obr
11 55
4 37

10 30 d 2 V, V 2 e.

S. Cephei.

21 37 +78°.0 Waite obr
12 00
9 37

10 34 Var. ft. not seen. Could see about
2 1/2 grades fainter than star l.
Moon bright.

S. Cassi.

1 9 +71°.8 Waite obr
12 6
10 57

10 44 g 3 V, V 5 k.

6 comps, +1

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1894phae.proj...527C

Wednesday, Apr. 10, 1895.

S. Cygni

20 2 457.6 Walt obs.
12 20
7 42

10 53 Var. not seen. Faint.

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1894phae.proj...527C

Thursday April 11, 1895 K.

Suspected Variable. (-7° 2783)

9 23 -7.5 Attwell Obs.
9 37
0 14

~~8 57~~ Var = a

8 57

H. P. 899.

5 0 +1.1
9 30
4 30

8 18 a 1,5 Var Var 3 b Attwell Obs

8 20 a 2 v, v 3 b Waite obs
a is +0° 923 (6.7)
b " +1° 8v7 (7.7)
Susp. Var.

9 23 -7.5 (-7° 2783)
10 5
0 42

8 40 a 1 v, v 3 b. Waite obs.

8 57 Var = a Attwell Obs.

8 comps.

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1894phae.proj...527C

Thursday, Apr. 11, 1895.

T. Cephei.

21 8 +67°9
10 20
10 48

8 55 Var = m Est. 10.0 Waite obs.

9 08 m 1.5 var var 2.5 m Attwill Obs.

T. Virginis.

12 7 -5°2
10 40
1 27

9 15 Var. not seen. Fainter than m which is easily seen. Waite obs.

R. Leo. Min. 1 +35°2 Waite obs.

9 37
10 55
1 18

9 30 9 5 Var. Est. 11.5

W. Herculis.

16 30 +37°6 Waite obs.
11 15
5 15

9 45 Var. ft. About a mag. fainter than
1 +4cm/s. Est. 12.0

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1894phae.proj..527C

Thursday, Apr. 11, 1895

R. Boötis.

14 31 +27°.4 Waite obs
11 50
- 2 41

10 20 m 2 V, V 2 m Est. 10.5

R. Leonis.

9 40 +12°.1 Waite obs
12 00
2 20

10 30 f 3 V, V 3 h. Est. 6.5

R. Serpentis.

16 00 +18°.8 Waite obs
12 5
- 3 55

10 38 b 3 V, V 2 m Est. 10.5

11 00 Aurora during most of evening. Arch about 10° high and centre about North.

6 comps.

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1894phae.proj..527C

Obs. of var. for 1895. Posted to here.

Tuesday Sept. 16, 1895

Well's Var.

9 23 -7°.5 Waite obs.
9 50
0 27

~~7~~ 58 a 5 Var., b 2 Var.

η Herculis.

16 19 +19°.2 Waite obs.
10 10
-6 9

8 20 Var. = s. Est. 12.0

R. Comae Ber.

11 57 +19°.6 Waite obs.
10 20
-1 37

8 30 Var. not seen. m, faintest star on chart, quite bright.

V. Cancri.

8 13 +17°.7 Waite obs.
10 25
2 12

8 40 d 5 var., var 3 c Est. 8.0
5 comp.

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1894phae.proj..527C

Tuesday, Apr. 16, 1895.

T. Hydrae.

8 49
10 40
1 51

−80.6 Waite obs.

8 50 -a 4 Var, Var 1 b. Est 8.0

Wells' Var.

9 23
10 50
1 27

−7°.5 Waite obs.

9 00 -a 3 Var. Var. = b.

9 20 -a 3 Var, Var 1 b.

S. Hydrae.

8 46
11 10
2 24

+3°.6 Waite obs.

9 25 Var. ft. much fainter than l which is faintest star on chart Est. 12.5

R. Cam.

6 59
11 20
4 21

+22°.9 Waite obs.

9 30 Var. not seen. 0 easily seen. 6 comps.

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1894phae.proj...527C

Tuesday, Apr. 16, 1895.

R. Corvi.

12 12
11 30
— 0 42 −18°.4 Waite obs.

9 40 Var. faint. much fainter than k.
Est. 11.5

Wells Var.

9 23
11 40
— 2 17 −7°.5 Waite obs.

9 50 a 3 V, V 1b.

γ Virginis.

12 26
12 00
— 0 26 −3°.6 Waite obs.

10 15 Var. about 1m fainter than l which is faintest star on chart.
Est. 11.5

R. Hydrae.

13 22
12 10
— 1 12 −22°.5 Waite obs.

10 24 r 1 V, V 2 2 Est. 7.4
4 comp +1

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1894phae.proj..527C

Tuesday, Apr. 16, 1895.

R. Virginis.

12 31
12 20
-0 11 +7°.8 Waite obs.

10 30 l 2 Var., Var 1 m. Est. 9.0

W. Virginis

12 44
12 30
-0 14 +6°.3 Waite obs

10 40 d 2 v, v 2 e Est. 8.0

Well's Var.

9 23
12 40
3 17 -7°.5 Waite obs

10 46 a 3 Var, Var 1 b

6 comps.

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1894phae.proj...527C

Wednesday, April 17, 1895.

Weak Var.
-7.5

8 40 a 1 var var 4 b Attwood Obs.

8 42 a 3 var, var 1 b Waite obs.

S. Cam. Nova.

7 25 +8°.6 Waite obs.
11 00
3 35

9 10 k 4 var, var 1 l. Est. 10.5

R. Cameri.

8 9 +12°.2 Waite obs.
11 10
3 1

9 22 Var. faint. Fainter than p.
Est. 12.0

S. Coronae.

15 15 +31°.9 Waite obs.
11 20
3 5.5

9 38 k 4 Var., Var., 1 l. Est. 9.5

8 comps.

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1894phae.proj..527C

Wednesday, Apr. 17, 1895.

χ Virginis.

11 54 +9°.9 Waite obs.
11 30
−0 24

9 50 Var. about 1m fainter than k.
Est 12.0

S. Virginis.

13 25 −6°.4 Waite obs.
11 40
−1 45

9 58 Var. not seen. Faint.

W. Virginis.

13 19 −2°.6 Waite obs.
11 50
−1 29

10 05 l 2 Var, Var. 3m Est. 11.3

V. Virginis.

13 20 −2°.4 Waite obs.
12 00
−1 20

10 10 Var. not seen. Faint.

2 comps +1

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Wednesday, Apr. 17, 1895.

T. Scorpii.

16 8 −22°.6. Waite obs.
12 5
4 3

10 17 −9 3 Var., var. 2 h. Est. 9.0

K. Scorpii.

16 9 −22°.6. Waite obs.
10 22 Var. not seen. Faint.

S. Scorpii.

16 9 −22°.5 Waite obs.
10 27 Var. not seen. Faint. P. seen.

Wellé Var.

9 23 −7°.5 Waite obs.
12 23
3 00

10 35 −a 3 Var., Var. 1 h.

4 comps.

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1894phae.proj..527C

Friday, Apr. 19, 1895.

Wells' Var.

9	23	-7°.5	Waite obs.
9	40		
0	17		

7 42 a 3 Var., Var 1 b.

R. + S. Tauri.

4	20	9°.8	Waite obs
10	00		
5	40		

8 00 R not seen. Faint.
8 05 S not seen. Faint.
Star m, at limit of visibility.

2 comps.

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1894phae.proj...527C

Tuesday, Apr. 23, 1895.

Well's Var.

9	23	-7°.5	Waite obs.
10	55		
1	32		

8 36 a 4 Var., Var. 1b.

R. Ursa. Maj.

10	34	+69°.5	Waite obs
11	00		
0	26		

8 45 h = Var., Var. 3 h. Est. 8.7

R. Camelop.

14	29	+84°.5	Waite obs.
11	10		
-3	19		

8 57 Var. = h. Est. 11.0

T. Cass.

0	15	+55°.0	Waite obs
11	20		
11	05		

9 05 g 3 Var., Var 2 h. Est 8.8

7 comp.

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1894phae.proj..527C

Tuesday, Apr. 23, 1895.

R. Cass.

23 51 +50°.6 Waite obs.

9 23 Region abandoned. too low.

9 25 Region abandoned too low Attwill obs

Wells Var.

9 23 -7°.5 Attwill obs.

11 40.

2 17

9 35 Var. 1 a Attwill Obs.

(S. Serpentis)

15 15 +14°.8

12 00

- 3 15

10 10 Var. about 2m fainter than m. Waite obs.

10 19 Var. about -1.5m fainter than m which (m) is the 10th mag. Attwill Obs.

1 comp. +2

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1894phae.proj...527C

Tuesday, Apl. 23, 1895.

S. Librae.

15 13 −19°.9

12 40

− 2 33

10 25 m 1 Var., Var. 4 m Est. 11.0 Waite obs.

10 38 m 1 var Var. 4 m Attwill obs.

R. Cass.

23 51 +50°.6

13 00

−10 51

10 49 Var. not seen. Region rather low. Waite obs.

10 52 Could not see variable; region low and obscured by haze. Attwill obs.

4 comps.

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1894phae.proj..527C

Posted to here.

Wednesday May 1, 1895

S
I Cassiop. 01272
7.1.8

432
11 03
1 09
9 54

8 32 Van = K Est 10.0 Attwill Obr.

8 35 k 2 Van, Van 2 l. Est 11.0 Waite obr

8600 R Cassiop 23950
23 57
11 35
12 16
+50.6
Attwill Obr

8 47 Entire region obscured by haze: no stars visible.

107 II Cassiop. 00255
23 51
11 35
12 16
+54,9
Attwill Obr

9 12 e 3 Van Van 2 f Est 8.0

9 14 e 4 Van, Van. 1 f Est. 8.0 Waite obr

7619 T. Cephei. 21168
21. 8
12 8
-9 00
+67,9

9 39 k 1 Van., Van. 1 l. Est 9.5 Waite obr

9 33 k 2 Van Van 2 l Attwill Obr

11 comps

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1894phae.proj...527C

Wednesday, May 1, 1895.

	3825	R. Ursæ. May.		10669
	10	34	+69.5	
	12	55		
	2	21		
10 5	g	3 Var, Var. 2 h.	Est. 8.2	Waite obs.
10 13	g	4 Var Var 1 h		Attwill Obs.
	2478	R Lyncis		0685
	13 10		+55.5	
	6 49			
	39			
	21			
10 33	Var. = f		Est. 9.0	Waite obs.
10 40	f g	2 Var Var 3 k	Est. 8.8	Attwill Obs.

R. Cassiopeiæ

10 54 Var. not seen. Region low and hazy. Star not seen. Waite obs.

10 58 Could not identify variable; region obscured by haze.

7 comps.

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1894phae.proj..527C

Wednesday, May 1, 1895.

86 00 R. Cass. 23 95 D.
23 51 +50°.6 Wait obs.
17 00
6 51

14 15 Var. not seen. Faint. Could see about 3 grades fainter than no.

0 comp +1.

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1894phae.proj...527C

Thursday May 2, 1895.

Observations recorded on next page by mistake.

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1894phae.proj..527C

Thursday May 2 1895.

5 15 7 S Bootis 14 35 4
11 02 +5° 4' 5 Attwell Obs.
14 18
3 16

8 23 Variable too faint to see; could be seen if about one grade fainter than g.

5 19 0 R Canelop. 14 48 4
11 22 +84,5 Attwell Obs.
14 29
3 07

8 50 g 1 var f 3 var

9 00 g = Var. Est. 11.0 Waite obs.

R.S. Librae 15 32 2

15 16 -22°.4
12 5
-3 11

9 15 Var not seen. Fainter than 11.0 Waite obs.

9 28 Could not see variable. Attwell Obs
Region low and moon.

3 comps. +1

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1894phae.proj...527C

Thursday, May 2, 1895.

R. S. Virginis. 1.4305

+5°.3

14 20
12 30
— 1 50

N

· y

9 30 Var. = y
y 5 Var. } Waite obs.

9 50 x 3 var var 1 y ⊙ Var.

Attwell Obs.

y. s

5748 R. Ors. Trim. 16572
16 32 +72°.6
12 50
— 3 42

10 00 e 4 Var., Var 1 f. Catt 10.5 - Waite obs.

10 08 d 4 var var 1 e Attwell Obs

8 comp.

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1894phae.proj..527C

Thursday, May 2, 1895.

5755 R. Draconis 16567 6
16 32 +67°

10 05 g 3 Var., Var. 2 h. Est. 9.5 Waite obs.

10 11 h 3 var var 1 k Attwill obs

~~10 35 g 3 var var 2 h Attwill obs~~

I

4557 S Ursae Majoris 12661
+61.9

10 35 I 3 Var. Var 2 h Attwill obs

10 25 g 1 Var, Var 2 h. Est. 9.2 Wt. obs.

4511 T. Dra. May. 12560
12 30 +60.3
13 25
0 55

10 48 e 3 Var., Var 1 f. Waite obs

10 44 e 2 var var 3 f Est 9.2 Attwill obs.

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1894phae.proj...527C

Thursday, May 2, 1895.

R. S. Librae 15 32 2
Waite obs.

15	16	-22.4
17	50	
1	44	

N
W ·.· ·.⊙
S

ob. 14 15 Var. not seen. Fit. Could see about 4 grades fainter than x.

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1894phae.proj..527C

Friday, May 3, 1895.

1855 R. Aurigae 05 15 53
5 6 +53°4 Wait obs.
11 30
6 24

8 35 g 4 Var., Var. 1h. Est 10.5

8 14 S. Persei 02 58 a.
2 12 +57°9 Wait obs.
11 40
9 28

8 49 Var. = g Est. 10.0

T. Persei 02 58 b.

8 55 c 2 Var., Var. 2d. Est. 8.8

7220 S. Cygni. 20 05 7
20 2 +57°6 Wait obs.
12 00
— 8 2

9 5 Var. not seen. Ft. m seen at about L. T.

5 com/s,

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1894phae.proj...527C

Friday, May 3, 1895.

7779 S. Cephei. 21678.
21 37 +78°.0 Waite obs.
12 15
9 22

9 15 Var. not seen. Moon bright.
not seen.

2684 S. Cam. Vinn. 07428.
7 25 +8°.6 Waite obs.
12 25
5 00

9 30 l 6 Var. Est. 11.0

2946 K. Cancri. 08112
8 9 +12.2 Waite obs.
12 35
4 26

9 40 Var. seen, but faint. about 1m
fainter than f. Est. 11.5

2976 T. Cancri. 08217
8 13 +17°.7 Waite obs.
12 45
4 32

9 50 Var. = h. Est. 8.5

2 comps + 1

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1894phae.proj..527C

Tuesday, May 3, 1895.

ν. Persei. 01956

1 52 +56°.0 Waite obs.
13 00
11 08

10 10 Region identified, but on account of moon and low alt. could see no fainter than star marked c on photographic chart. Var. not seen.

ω. Persei. 01854

1 50 +54°.1 Waite obs.
13 15
11 25

10 30 a 7 Var. Var. 3 b {These stars (a, b) are the ones so lettered on photographic chart.} The interval between a & b is large (at least a magn.) but on account of low alt., moon and hazy conditions, no others were selected.

2 comps.

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1894phae.proj...527C

Tuesday, May 3, 1895.

Z. Ophiuchi. 17201,
17 12 +1°.7 Waite obs.
13 30
— 3 42

10 40 b 3 Var., Var. 1 c. (Photographic letters)

R. T. Cygni. 19h48
19 40. +48°.4 Waite obs
13 45
— 5 55

11 00 Could not identify region from phot. chart, and [illegible] not time to look up in D. M. to-night.

2 comps.

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1894phae.proj...527C

 Quid to here. D aitē

Tuesday, May 1, 1894

R Leonis Minoris.

11 50
93 37
2 13

+35°.2

Attwell Obs.
Wt. Obs.

9 04 Could not identify region.

R S. Virginis.
+5°,1

Attwell Obs.
Waite "

9 21 Could not identify region: too near the moon.

R.S. Libræ
−22°.6

Attwell Obs.

9 25 Could not identify region. Moon too bright.

R. Persei.

Wt. Obs.

9 27 Could not identify region on account of moon light.

V. Persei.

Wt. Obs.

9 29 Same as R. Persei.

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1894phae.proj...527C

Tuesday, May 7, 1895.

z Ophiuchi. Wt., + Att. Obs.

9 34 Moon too bright.

Well in Var.

9 35 −7°.5 Wt. Obs.

12 50

3 15

9 45 Var = c

3493 R. Leonis 05711

9 40 +12°.1

13 10

3 30

9 59 h 3 Var., Var 2 k. Wt. Obs.

10 05 Var = h Attwell Obs.

3184 T. Hydrae 08808.

10 25 Bright moon and region obscured by clouds. Wt. + att. obs.

4596

1 52 U Virginis 12706

12 44 +6°.3 Wt + Att. Obs

10 42 Could not see variable: light cirrus cloud over the region.

4 comps.

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1894phae.proj...527C

Tuesday, May 7, 1895.

T. Persei.

8½

2 9 +58.3 02258a
14 10.
12 1

10 57 c 4 Van., Vm, d. Wt., Sk.
Attwell Ch.

11 00 Could not see variable; Clouds obscuring the region.

2 comps.

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Friday May 10, 1895

R Leonis Minoris. Attwell Obs.
+30°.2

12 18
9 37
2 41

9 12 Could not identify region.

S Coronae. Attwell Obs.
+31°.9

12 43
10 15
2 32

9 34 Could not identify region.

R Can. Ven. Attwell Obs.
+40°.3

13 05
13 43
0 38

9 50 Could not identify region.

U Herculis Attwell Obs.
+19°.3

13 20
16 19
2 59

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1894phae.proj...527C

Monday, May 13, 1895.

U Herculis.

13 46 +19°.2 Attwell Obr.
16 19
2 33

10 35 Could not identify region.

R Leonis Minoris. Attwell Obr

15 10 +35°.2
9 37
5 33

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1894phae.proj...527C

Thursday, May 16, 1895

U Herculis

12 10
16 19
4 09

+19.°2

Attwell Obs

8 30 Could not identify the region.

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1894phae.proj...527C

Wednesday, May 22, 1895.

Prell's Var. Waite, Stillwell } Obs

9 35 -7°.0
12 35
3 00

8 20 Var. not seen Region very cloudy.

8 45 Sky still cloudy.

9 45 Sky still cloudy.

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1994phae.proj...527C

Thursday, May 23 1895

0589 ν Herculis 16 3 19
14 10 +19.°2
16 19
2 09

Est. 7.9

9 55 m 1 Var., Var. 3 0 Waite Obs.
10 05 Var = L Attwill Obr

5770 R. Herculis.
16 00 -19.°0 16 0 18
14 25
- 1 35

10 10 Var. susp. at about L. V. Wt. Obs.
10 15 Could not see the variable Attwill Obr
Var. < 12.5

4948 R. Can. Ven. 13 7 40

10 37. h 3 Var. Var 1 k Waite Obs.

Est 9.0

5 comps.

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1894phae.proj..527C

Thursday, May 23, 1895.

5494 S. Librae. 15220
−19.°9

10 31
15 13
0 18

10 50 ε 3 Var., Var 1 f. Waite obs.

Cirt 8.0

4300 X Virginis 11909
1608 +9.°9 Attwell, Obs
1157
X 14

11 49 k 3 Var Cirt 12.3

3 comps.

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1894phae.proj...527C

Friday May 24 1895.

Well's Var.

9 35 $-7^{\circ}.5$
12 50
3 15

Comp. stars selected according to diagram below.



8 35 c 2 Var., Var 2 d. Waite obs.

8 55 b 2 var. var 3 c Attwill Obs.

4521 R. Virginis. 12 5 07

12 31 $+7^{\circ}.8$
13 20
0 49

9 05 c 1 Var., V 2 d. Waite obs.
Est. 7.1

9 15 d 2 var var 3 e Attwill Obs.

8 comps.

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1894phae.proj..527C

Friday, May 24, 1895.

3477 R Leonis Minoris 09634
+35°.2

13 55
9 37
4 18

g * (y) (x) w
g
k

9 30 Var. much fainter than g. (faintest star on plate. x & y selected provisionally)
x & Var, Var = y. Waite Obs

9 35 Could not see variable; could be seen if about 3 grades fainter than g. (Attwill Obs)

4826 R. Hydrae 13422
−22°.5

14 14
13 22
0 52

9 40 Var. = w Waite Obs.
Est. = 9.0

9 50 Var a U t 3 Var Attwill Obs.
comp 5 + 1.

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1894phae..proj...527C

Friday May 24, 1895.

4407 R. Corvi: 12 218

$-18.^{\circ}4$

14 30
12 12
2 18

Star close to var., and only one star seen in tel., if star seen is not the var, then var is too faint to be seen. if star seen is the var, then ests follow.

+f
+e +k

10 00 Var. = e. Waite Obs.
Est. 8.5

10 05 var 2 f e 3 var Attwill Obs.

4847 S. Virginis 13406

13 25 $-6.^{\circ}4$
14 40
1 15

10 28 e 1 Var., Var. 3 d Waite Obs.

Est. 7.0

Var. not charted correctly.
Chart corrected.

5 comps.

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1894phae.proj..527C

Friday, May 24, 1895.

6044. S Herculis 16 7 15
+15°2

15 12
16 45
1 33

10 38 m 3 Var., Var 2 0 Waite obs.
Est. 11.0
10 47 Var 3 f 0 3 Var Attwill Obs

6132 K. Ophiuchi. 17 0 15
−15°9

15 20
16 59
1 39

10 50 Var. not seen. Could easily see 5 grades fainter than 0. Waite obs.
Attwill obs

5950 W Herculis 16 5 37
+37°6

15 42
16 30
0 48

Attwill Obs

11 18 Could not see variable: variable could be seen if 3 grades fainter than 7.

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1894phae.proj...527C

Friday, May 24, 1895.

4492 — Y Virginis — 12403

−3°.6

16 08
12 26
3 42

{ Waite Obs
Attwill Obs

11 45 — Vanishes faint; fainter than ζ which is the faintest comparison star on chart.

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1894phae.proj..527C

Posted to here.

Wednesday, May 29, 1895

6512 T Herculis 18 09
+30°9 Attwill Obs

13 52
18 04
4 12

9 09 The variable is 2 grades fainter than "n" which is the faintest star on the chart.
~~"m"~~ "n" is old notation.
Est. Fainter than 10.0

7045 R Cygni 19 59
+49°9 Attwill Obs

14 10
19 37
5 27

9 23 Var = n Est. Fainter than 11.0

7428 V Cygni 20 47
+47°6 Attwill Obs.

7 9 36
7 7 23
6 13

9 38 Variable is about 4 grades fainter than "m" which is the faintest star on the chart.
Est. fainter than 11.0

1 comp. +2.

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1894phae.proj...527C

Wednesday, May 29, 1895.

7299 U Cygni 20247
+47°.5 Attwill Obr.

14 38
20 15
5 37

8 54 Var = f Est. 8.5

5504 S Coronæ 15231
+31.9° Attwill Obr

15 16
15 15
00 01

10 34 Var 1m 2 3 Var Est. 9.1

5237 R Bootis 14527
+27.°4 Attwill

15 55
14 31
1 24

11 -10 Variable too faint to see; could see it if
1 grade fainter than "q".
Est. fainter than 12.0

3 comps +1

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1894phae.proj..527C

Wednesday, May 29, 1895.

7120 X Cygni
+32°.5
Attwell Obs.

16 18
19 45
3 27

11 35 Variable seen with diff'culty: it is almost at the limit of visibility.
Est. 13.0

5667 R Coronæ 15728
+28.6
Attwell Obs

16 43
15 43
00 00

11 58 Var 1 / 2 0 3 var Est. 9.9

4315 R Coronæ Boreæ. 11919
+19.6
Attwell Obs

17 06
11 57
5 09

12 22 Variable too faint: could be seen if 2 grades fainter than "m". Est. <12.2

2 comps + 2

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Posted to Lick.

Thursday June 6, 1895

N Ursae Majoris.

4557 +62°.0 12661

Attwill Obs

16 13
12 38
3 35

Est. 12,3

11 02 Variable too faint to see; could see if about 3 grades fainter than h.

5157 N Bootis +54°.5 14354

Attwill Obs.

16 30
14 18
2 12

Est. 12,1

11 14 Variable too faint to see; could be seen if 1 grade fainter than g.

3825 R Ursae Maj. +69°.5 10669 Attwill Obs.

17 13
10 34
6 39

var 2 g

11 54 Variable is 2 grades brighter than g
There is no star "f" on this chart.

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1894phae.proj...527C

Friday, June 7, 1895.

3184 T. Hydrae. 08808
8 49 -8°.6 Waite obs.
14 00
5 11

8 45 Region too low and could not be identified. Region is too low at twilight.

3170 S. Hydrae 08803
8 46 +3°.6 Waite obs.
14 08
5 22

8 55 Van. ft. Not time for an observation when region went behind church steeple.

4596 R. Virginis 12706
12 44 +6°.3 Waite obs.
14 30
1 46

9 15 k 1 Var., Var. 3 k. Est. 10.0

4826 R. Hydrae. 13422
13 22 -22°.5 Waite obs.
14 40
1 18

4 comps.

9 25 w 1 Var., Var. 4 w. Est. 9.0

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1894phae.proj...527C

Friday, June 7, 1895.

4948 R. Cam. Ven. 13740.
13 43 +40°3 Waite obs.
14 50
1 7

9 35 h 1 Var., Var. ∴ k. Est. 9.0

4407 R. Corvi 12218
12 12 -18°4 Waite obs.
15 00
2 48

9 42 d 4 Var., Var. 1e Est. 7.8

4300 χ Virginis 11909.
11 54 +9°9 Waite obs.
15 07
3 13

9 48 Var faint. About 1.5 m fainter than k which is faintest star on chart. Est. 11.5.

4847 S. Virginis. 13406
13 25 -6°4 Waite obs.
15 15
1 50

9 55 C 2 Var., Var. 1 d. Est. 7.0

7 comps.

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1894phae.proj...527C

Friday, June 7, 1895.

4315 R. Comae Ber. 11919.
11 57 +19°.6 Waite obs.
15 20
3 23

10 01 Var. not seen. Faint. n, faintest star on chart easily seen.

4521 R. Virginis. 12507.
12 31 +7°.8 Waite obs.
15 30
2 59

10 15 d 2 Var., Var. 2 e. Est. 7.0

5494. S. Librae. 15220
15 13 -19°.9 Waite obs.
15 40
0 27

10 27 e 2 Var., Var. 2 f. Est. 8.3

6132 R. Ophiuchi. 17015
16 59 -15°.9 Waite obs.
15 50
1 9

10 36 Var. not seen n seen at about L. T. Moon near and bright.

4 comps.

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1894phae.proj..527C

Friday, June 7, 1895

5237 R. Bootis. 14527

14 31 +27°.4 Waite obs.

15 58

1 27

10 45 Var. susp., but not certainly seen. Could see about 5 grades fainter than q (faintest star on chart.)

Moon full to-night.

Set tel. on moon to find size of field. Field of 6m = 2 diams. of moon = approx. 1 degree. Field of 6h = Finder = 6 diams. of moon = approx. 3 degrees.

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1894phae.proj..527C

Saturday, June 8, 1895.

D. M. +49° 2614.

17 13 +49°.9 Waite obs.

Identified region by D. M. charts.

Compared with (D. M. +49° 2599)
and with (D. M. +51° 2187)
Identifying both with D. M. charts.

8 48 (D. M. +51° 2187) 3 (D. M. +49° 2614)
(D. M. +49° 2614) 1 (D. M. +49° 2599)

Above observation made with West Equatorial.

9 15 (D. M. +49° 2620) 1 (D. M. +49° 2614)
(D. M. +49° 2614) 1 (D. M. +49° 2629)

Field glass. Waite obs.

4 comp.

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1894phae.proj...527C

Saturday, June 8, 1895.

6925 K. Sagittarii. 19 19
19 8 −19° 6
15 25
— 3 43

10 10 e 1 Var. Var 3 5 Wait obs.
Est. 8.1

6928 S. Sagittarii. 19 ≥ 19
19 11 −19° 3 Wait obs.
15 35
— 3 36

10 18 Var, not seen. m at L. T.
Moon bright. Sky hazy

6044 S. Herculis 16 15.
16 45 +15° 2 Wait obs.
15 45
— 1 00

10 25 m 1 Var., Var. 4 0 Est. 11.0

6512 T. Herculis. 18 03
18 4 +31° 0 Wait obs.
15 50
— 2 14

10 35 ~~Var. 3~~ m 3 Var. Est. 10.5
m is faintest star on chart. 5 comp.
~~is bad station~~

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1894phae.proj..527C

Saturday, June 8, 1895.

7045 R. Cygni. 19549.
19 33 +49°9 Waite obs.
16 00
3 33

10 41 m 4 Var., Var = 0. Est. 11.0

7299 R. Cygni. 20247.
20 15 +47°4 Waite obs.
16 05
4 10

10 48 g 1 Var., Var 3 br. Est. 10.0

7428 V. Cygni. 20647.
20 26 +47°6 Waite obs.
16 10
4 26

10 53 Var. not seen. Faint.
Star is easily seen and is
faintest on chart. Moon bright.

4 comps.

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1894phae.proj...527C

Sunday, June 9, 1895.

10 M. +49° 2614.

17 13 +49°.9 Waite obs.

9 53 (10 M. +49° 2620) 3 (10 M. +49° 2614)
(10 M. +49° 2614) = (10 M. +49° 2629)
Above obs made with Field glass.

2 comps.

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1894phae.proj..527C

Monday June 10, 1895

5755 R Draconis. 16566
+67.1 Attwill Obs.

16 09
16 32
0 23

10 37 Var = C Est. 7,5

5190 R Camelop. 14484
+84,5 Attwill Obs.

16 26
14 29
1 57

10 54 C 4 var var 2 d Est. 8.8

4511 I Ursae Maj. 12560
Attwill Obs.

16 48
12 30
4 18

11 15 f 4 var var 1 g Est. 8.5

5 comps

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1894phae.proj...527C

Monday, June 10, 1895.

5948 R Ursae Min. 16 57 2
+72°.6 Attwill Obr.

17 00
16 32
0 28

11 28 d 3 var var 2 e Est. 9.5
Attwill Obr.

7228 * N Cygni 20 05 7
+57°.6

17 12
20 02
2 50

11 40 Variable too faint: could be seen if 2 grades fainter than g. Est. 12.5
Attwill Obr.

* Wrong star was observed.

7779 S Aphei. 21 6 78
+77°.9 Attwill Obr.

17 30
21 37
4 07

11 59 Could not see variable! "could be seen if 1 grade fainter than ~~g~~ h."

2 comps.

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1894phae.proj..527C

Monday, June 10, 1895.

R Cassiop. 23950
+50°.6 Attwood Ob.

8G 10

17 38
23 51
6 23

12 10 Variable suspected, but must be 2 grades fainter than 0.

Est. 12.5

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1894phae.proj...527C

Tuesday, June 11, 1895

Wells Variable.

14 31 -7.0
9 35
4 56

8 59 c 3 Var, Var. 1 d. Waite obs.

9 03 Could not see variable. Attwill Obs.
Region bare.

D.M. +49°2614.

17 14 +49.°9. Waite obs.

9 10 (D.M. +49°2620) 1 (D.M. +49°2614.)
(D.M. +49°2614) 1 (D.M. +49°2629)

Above observation made with Field Glass.

3493 R. Leonis 09711.
9 40
15 00
5 20

9 35 t 1 Var Var 4 u Attwill Obs.
Est 9.0

9 37 t. 1 Var, Var 2 u. Waite obs.

6 comp.

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1894phae.proj..527C

Tuesday, June 11, 1895.

3477 R Leonis Minoris 09634

15 30
9 37
5 53

+35.2

9 45 Could not see variable: could see it if 2 grades fainter than "g". (faintest star on chart) Attwell Obs

9 50 Var. about 1 m fainter than "g" which is faintest star on chart. Est. 12.0 Waite Obs.

5504 S Coronae 15231

15 43
15 16
0 27

10 00 Var. much fainter than m which is faintest star on chart. Est. 10.5 Waite Obs

10 06 Both m + n, which are the faintest two stars on the chart are much brighter than the variable. Attwell Obs.

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1894phae.proj...527C

Tuesday, June 11, 1895.

5667 15 7 28

16 03
15 43
0 20

R Coronae.
+28°.6

10 25 The variable is much brighter than f which is the brightest star on the chart { Wt Att. Obs

6733 R. Scuti. 18 70 5

-5°.9

16 10
18 40
2 25

10 30 g 1 Var, Var. 4 h. : Est. 7.0 Watts Obs

10 35 f 2 Var Var = g Attwell Obs

7560. R Vulpec. 20 9 23

21 00
16 22
4 38

10 40 Var ft. Fainter than m which is faintest star on chart. Est. 12.5 Wt, Obs

10 46 Var = m Attwell Obs

5 comps

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1894phae.proj..527C

Tuesday June 11. 1895.

7261 R Delphini. 20108
+8°.6

16 34
20 08
3 34

10 50 l 2 Var. Var. 2 m Waite Obs
Est. 11.5

10 55 k 2 var var 3 2 Attwill Obs

4 comps.

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1894phae.proj...527C

Wednesday June 12, 1895

2976 T. Coronæ. 08217
14 55 +17.°7
8 13
6 42

9 10 Var. not seen. Faint. Star is at about limit of visibility. Waite obs
9 15 Variable too faint to be seen. Attwell Obs.
Region becoming covered with thin cloud.

5770 R. Herculis. 16018
+18.°8
15 07
16 00
0 53

9 24 Var. not seen. Faint, is easily seen. Waite obs.

9 27 Variable is too faint to see. Attwell Obs.
Sky nearly covered with clouds.

4492 Y Virginis 12403
-3.°6.

~~14~~
15 40
12 26
3 14

10 00 Var. not seen. Faint. Star is easily seen. Waite obs
10 05 Sky covered with thin cloud

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1894phae.proj..527C

Friday, June 14, 1895.

3493 R. Leonis 09711.
9 40 +12°.1 Waite obs.
14 40
5 00

8 52 9 4 Var. Var. 1 n Est. 8.9

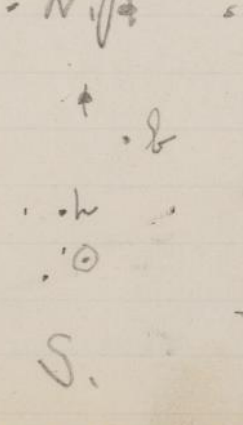
5889 W. Herculis. 16319
16 19 +19°.2 Waite obs.
14 45
1 34

9 00 m 2 Var. Var. 2 m. Est. 8.8

5950 W. ~~Leonis~~ Herculis. 16537
16 30 +37°.6 Waite obs.
14 55
1 35

9 15 a 2 Var. Var. 2 f. Est. 10.5

a + f in provisional notation selected as by diagram below.



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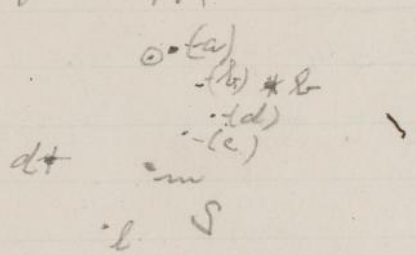
1894phae.proj...527C

Friday, June 14, 1895

6 5 12 T. Herculis 18 0 31
18 4 +31°.0 Waite obs.
15 10
2 54

9 30 Var. = (d.) Est. 11..8.

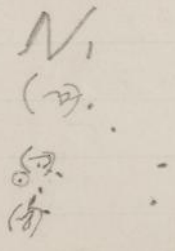
Also d in provisional notation a, b, c and d selected according to diagram below.



7 1 20 χ Cygni 19 7 32
19 45 +32°.6 Waite obs.
15 30
4 15

10 00 Var. = (c) Est. 13.0

c in provisional notation, also a+b.



2 comps.

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Friday, June 14, 1895.

5501 S. Serpentis. 15214
15 15 +14° 8 Waite obs.
15 50
0 35

10 12 d. 1 Var., Var 2 e. Est 8.1

1855 R. Aquilae 05153
5 6 +53° 4 Waite obs.
16 00
10 54

10 20 g 3 Var.; Var. 1 h. Est. 10.0

2478 R. Lyncis 06855.
6 49 +55° 5 Waite obs
16 05
9 16

10 26 d 1 Var., Var. 2 e Est. 8.1

107 T. Cass. 00255
0 15 +55° 0 Waite obs.
16 12
8 03

10 31 f 2 Var., Var. 1 g Est. 8.4

8 comps.

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Friday, June 14, 1895.

432 S. Cass. 01272
+71° 8 Waite obs.

1 9
16 18
−18 51

10 38 0 3 Var., Var 2 pr. Est. 12.0

T. Persei. 02258 b.
Waite obs.

16 25
−9 44

10 44 d Var., Var. 4 e Est 8.6

δ 14 S. Persei. 02258 a.
+57.9 Waite obs.

2 12
16 30
−9 42

g 4 Var., Var. 2 k. Est. 11.0

No h on chart.

6 comp.

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1894phae.proj..527C

Sunday, June 16, 1895.

432 N. Cassiop. 01272
+72°.0

15 05
1 09
13 56

Atwill Obs.

Est. 13.0

9 07 Variable seen with difficulty; it is about ½ grades fainter than "m" which is the faintest comp. star I could see.

107 I Cassiop. 00205
+55°.0

15 33
0 15
15 18

Atwill Obs.

9 33 e 2 var var 3 f

Est. 8.2

6512 I Herculis 18031
+31.0

16 07
18 04
1 57

Est. 12.5

16 07 Variable seen with difficulty; it is about 3 grades fainter than ~~m~~ m is old notation which is the faintest comp. star on chart.

2 comps + 1

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1894phae.proj...527C

Sunday June 16 1895.

7120 X Cygni 19732

+32.5

Attwell Obs.

16 27
19 45
3 18

Est. fainter than 12.0

10 31 Could not see variable: Could see it if about 3 grades fainter than Z.

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1894phae.proj..527C

Tuesday, June 18, 1895

7609 T Cephei. 21168
+67.9° Attwell Obs.

21 08
15 20
5 48

7 15 h 3 var var 3 h Est. 8.5

5589 U Herculis 16 319.
+19.2° Attwell Obs

15 50
16 19
0 19

Est. 8.5

9 45 m 3 var var 2 m

77 S Serpentis 15 214
+14.9 Attwell Obs.

16 00
15 15
0 45

10 07 var 1 d c 3 var Est. 7.9

814 S Persei. 02258a
+57.9 Attwell Obs

16 43
2 12
14 31

Est. < 12.0

10 38 Could not see variable; could be seen if equal to 7 which is seen with difficulty. 6 comps.

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1894phae.proj..527C

Tuesday, June 18, 1895.

5-6 67 R Crowe 15728
+28,8- Attwill Obs

16 48
15- 43
1 05

10 5-6
9 5-6 The variable is about 1 mag. brighter than
f which is the brightest star on the chart,

0 + 1 cont.

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1894phae.proj...527C

Wednesday June 19, 1895.

5950 W Herculis 16.587
+37.°6

16 30
15 22
1 08

Attwill Obs
Est. 10.2

9 35 Variable is about 2 grades fainter than ζ which is the fainter comparison on chart.

2478 R Lyncis. 06855
+55.°5

15 50
6 49
9 01

Attwill Obs
Est. 8.2

9 55 d 2 var. var 3 e

N Cephei.
+78.°1

16 42
21 36
4 54

Attwill Obs
Est. 12.0

10 32 Variable seen with much difficulty; almost at limit of visibility for my eye.

2 comps + t

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1894phae.proj...527C

Thursday, June 20, 1895.

Photographic Vars.

K. S. Virginis

14	20	$+5^{\circ}.3$ Waite obs.
15	35	
1	15	

9 35 g 1 Var., Var. 4 Sh. (notation on chart)

K. S. Librae

15	16	$-22^{\circ}.4$ Waite obs.
15	45	
0	29	

9 43 c 4 Var., Var. 1 S. (notation on chart. S is 5 grades fainter than c)

Z. Ophiuchi

17	12	$+1^{\circ}.7$ Waite obs.
15	55	
1	17	

9 52 E c 2 Var., Var. = d. (notation on chart.)

6 comps.

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1894phae.proj..527C

Thursday, June 20, 1895

K. T. Cygni.

19 40
16 00
— 3 40

+48°.4 Waite obs.

10 00 (Y) Var, var. d.

d is notation on chart and is the brightest of the lettered photographic stars. (Y) is provisional notation.

N.
.d
.a
.var.

.e

.Y

S

η Persei.

1 50
16 15
— 9 35

+54°.1 Waite obs.

10 16 Var. = δ. Region low and hazy and therefore observation not considered very good. δ. is notation on photographic chart.

3 comps.

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1894phae.proj..527C

Thursday, June 20, 1895

ν Persei.

1 52 +56°.0 Waite obs.

16 30

−9 22

10 30 Var. not seen. Probably not on account of faintness, but haziness and low altitude. a + b were the only lettered stars on photographic chart of this region that were seen.

M. P. 441.

3. 30 +63°.1 Waite obs.

16 45

−10 45

10 47 Var. = D. M. +62°.581

Var very red. Region hazy.

7609 T. Cephei. 21168.

21 8 +67°.9 Waite obs.

17 00

−4 8

10 55 In 2 Var., Var. l.

Est. 9.2

3 comps.

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1894phae.proj..527C

Posted to here.

Tuesday, July 2, 1895.

4377 T. Virginia. 12105
12 7 -5°.2 Waite obs
15 50
3 43

9 00 Var. not seen. Faint. Moon bt
Could see about 5 grades farther
than star was.

4805 W. Virginia. 13302 a
13 19 -2°.6 Waite obs.
15 58
2 39

9 05 ☆ 4 Var., Var. 1 l Est. 10.4

4816. T. Virginia 13302 b
13 20 -2°.4 Waite obs.
16 05
2 45

9 11 Var. not seen. Faint, Moon
near.

2 comps.

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1894phae.proj...527C

Tuesday, July 2, 1895.

5826 T. Scorpii. 16 22 C.
16 8 −22°.6 Waitz obs.
16 8
0 00

9 20 k 2 Var. Var. 2 b. Est. 10.5
Moon near.

5830 R. Scorpii 16.222 a.
16 9 −22°.6 Waitz obs.
16 15
0 06

9 24 Var. not seen. Faint.

5831. S. Scorpii. 16 22 2 b.
16 9 −22°.5 Waitz obs.
16 25
0 16

9 30 Var. not seen. Faint.

5667 K. Coronae. 15.728.
15 43 +28°.6 Waitz obs.
16 35
0 52

9 38 b 2 Var. Var. 2 c Est 6.0

4 comps.

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1894phae.proj..527C

Tuesday, July 2, 1895.

7259 R. S. Cygni 20838.

20 8 +38°.3 Wash. Sp.

16 42

3 26

9 45 d 1 Var, Var. 1 e Est. 7.5

B.D. −14° 4228, 9.4m

15 25 2 −14° 50'

16 50

1 25

10 5 a 1 Var. Var. 1 b.

a and b provisional according to chart below.

N.

S.

4 comps.

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1894phae.proj...527C

Tuesday, July 2, 1895.

4511 T. Ins. Maj. 12560.
12 30 +60°.3 Waite obs.
17 03
4 33

10 15 sk 4 Var., Var. 1l East 10.5

4557 S. Ins. Maj. 12661.
12 38 +61°.9 Waite obs
17 15
4 37

10 25 Var. not seen. Faint, No doubt
Could easily see 3 grades
fainter than star in ni

3825 K. Ins. Maj. 10669
10 34 +69°.6 Waite obs.
17 25
6 51

10 30 g. 1 Var., Var. 3h East. 7.8

5948 R. Ins. Min. 16572
16 32 +72°.6 Waite obs.
17 32
1 00

10 37 c 1 Var., Var. 1 d. East. 10.0

6 comps.

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1894phae.proj..527C

Tuesday, July 2, 1895.

5157 S. Bootis. 14354.

14 18 +54°.5 Waite obs.

17 35

3 17

10 42 Var. not seen. Fruits.

5190 R. Coronæ. 14484.

14 29 +84°.5 Waite obs.

17 40

3 11

10 47 f 3 Var., Var. 1 c. Est. 8.4.

5955 R. Draconis. 16566.

16 32 +67°.1 Waite obs.

17 45

1 13

10 52 f 2 Var., Var. 1 g. Est. 8.3

D. M. +49°2614

17 14 +49°.9 Waite obs.

11 00 (D. M. +49°2614) = (D. M. +49°2620)

Above observation on D. M. +49°2614 made with field glass.

5 cm/t

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1894phae..proj...527C

Sunday, July 7th 1895.

11 00 Set on several regions but found it much too hazy to do any work.

14 00 Still very hazy.

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1894phae.proj..527C

Monday, July 8th 1895.

T. Cephei 21167

21 8
16 20
− 4 48

+67°.9 Waite obr.

9 5 h 3 Var., Var. 2-k, Est. 8.8

8600 R. Cass. 23950.

23 51
16 30
− 7 21

+52°.6 Waite obr.

9 15 o 2 Var Var. 3 k. Est. 10.2
Region somewhat cloudy.

7779. S. Cephei. 21678

21 37
16 45
− 4 52

+78°.0 Waite obr.

9 30 m. 2 Var. V 2 m. Est. 11.5
Region hazy.

7220 S. Cygni. 20057

20 42
17 00
− 3 2

+57°.6 Waite obr.

9 55 k 1 Var. Var. 4 l. Est. 11.5
much troubled by passing clouds
Moon rising.

8 comps.

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1894phae.proj...527C

Monday, July 8th 1895.

107 T. Cass. 00 2 55.
0 15 · +55°.0 Waite obs
17 15
— 7. 00

10 05 · d 3 Van Van. 2 e Est. 7.8

10 10 — Sky all cloudy.

2 comps.

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1894phae.proj..527C

Tuesday, July 9th, 1895.

T. Perseï 02h58m 8.
+58°.3 Waite obs.

2 9
20 60
− 6 9

12 45 C 4 Var., Var. 1 d. Est. 8.5

814 S. Persei 02h58m a.
2 12 +57°.9 Waite obs.
20 15
− 5 57

12 58 h 3 Var., Var. 2 k. Est. 11.0
Much haze, some cloudiness. Moon

432 S. Cass. 01h27m.
1 9 +71°.8 Waite obs.
20 20
− 4 44

13 9 Var. not seen. Faint. Could see about 3 grades fainter than star 0. Moon and haze.

4 comps + 1

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1894phae.proj...527C

Tuesday July 9th 1895.

5950 W. Herculis 16 5 37
16 30. +37°6 Waite obs
20 45
4 15

13 40 d 2 Var, Var. 2 e Est. 8.5

1855 R. Aquilae 05153.
5 6 +53°4 Waite obs
21 00
8 6

13 50 d 1 Var, Var. 4 e. Est. 7.6

14 00 Sky very cloudy (2 S & P.)

5504 S. Coronae 15 2 31
15 15 +31°9 Waite obs
21 50
6 35

14 30 Var. 5 0 Est. 11.0
Difficulty in making estimate both on account of clouds and moon.

4 comps.

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1894phae.proj...527C

Tuesday, July 9th = 1895.

5770. R. Herculis. 16016.
16 00 +18°.8 Waite obs.
22 00
6 00

14 45 Var. = m Est. 11.0

2478 R. Lyncis. 06853
6 49 +65°.5 Waite obs.
22 15
8 34

15 05 Region all cloudy.

1 comp.

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1894phae.proj..527C

Wednesday, July 10, 1895

5494 S Librae 10-220
-19.9 Attwell Obr.

16 33
15 13
1 20

9 03 v = f Est. 8.5 8.7

9 06 e 2 Var., Var. 2 f Waite obs.

2478 R. Lyncis 06855.
6 49 +55°.5
16 45
9 56

9 18 Could not see var. on account (Wt.
of low alt. and haziness. g seen.
9 20
9 22 Could not see variable: seeing poor. Attwell.

χ Cygni. 19732
19 45 +32°.6
17 00
2 45

9 30 (α) = Var. Est. 12.5 Wt. obs. (α) is prov. notation according to diagram.
9 37 Could not see variable: very faint. Attwell.

4 comp.

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1894phae.proj...527c

Wednesday, July 10, 1895.

6512 I Herculis 18031
17 30 +31.0 Attwood Obs
18 04
−0 34

9 58 Variable too faint to see; could see if about 2 grades fainter than "n".
Up to this point in this book old notation has been used and corrected in red.

7261 R. Delphini. 20108
20 8 +8.6
17 45
− 2.23

10 20 k = Var., Var. = l. Est. 11.0 Wt. 82.
Attwood Obs.

10 33 Variable now but more interested with companion

6132 R. Aphinchi. 17015
16 59 −15.9
18 00
1 01

10 38 ± 4 Var., Var. 1f Est. 7.8 Waite Obs

4 comps.

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1894phae.proj..527C

Wednesday, July 10th, 1895.

4948 R. Can. Ven. 13740.

13 43 +40°.3

18 10

4 27

10 48 d 1 Van., Van. 4 e Est. 7.6 Waite obs.

10 55 c 4 Van Van 2 d Attwell Obs.

LD. M. +49°2614.

17 14 +49°.9 Waite obs.

11 12 (LD. M. +49°2620) 1 (LD. M. +49°2614)

(LD. M. +49°2614) 1 (LD. M. +49°2629)

Above observation made with field glass.

6 comps.

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1894phae.proj..527C

Friday, July 12, 1895

43 00 X Virginis. 11 909
+9.9°

16 35
11 54
4 41

8 50 g 4 Var., Var. 1 br. Est. 11.9 Waite obs.
Sky very hazy.

8 58 he could not see variable; he seen with difficulty.
Seeing poor. (Attwill Obs.)

45 21 K. Virginis. 12 507
+7.8.

12 31
16 45
4 14

9 05 Var. = p Est. 11.0 Waite obs.

70 45 K. Cygni. 19 549
+49.9

17 32
19 33
2 01

Est. 7.0

9 37 e 3 Var. Var. 1 f. Waite Obs.

9 52 b 4 var var 2 c Attwill Obs

7 comps.

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1894phae.proj..527C

Friday, July 12, 1895.

6733 R Scuti 18705
-5.9

17 38
18 40
1 02

Eclr. 7.X

.9 56 var = 1 Watts Obs.
1 0 02 var 2 1 Attwill Obs.

112 R Andr 00338
+37.8

0 16
17 54
6 22

~~10~~

10 17 1 2 var var 2 1 Attwill Obs.
1 3 var
10 22 ~~var 3 1~~ var 1 1 Watts Obs.

7468 T. Aquarii 20705
-5.7

20 42
18 10
2 32

10 28 Var not seen. Faint Star o faintest star on chart easily seen. Watts Obs

10 34 Var ~~was~~ too faint; could be seen if a good ~~fainter than~~ o. Attwill Obs.

6. comp.

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1894phae.proj..527C

Friday July 12 1895.

7261 R. Delphini 20108
18 20
20 07
1 47
+8.6
Waite obs.
East

10 38 Var. not seen. Faint. Star ~~as~~ faintest star on chart easily seen.

7261 R Delphini 20108
+8.6

18 20
20 07
1 47

10 45 Variable too faint; could be seen if 2 grades fainter than ~~a~~ (Attwill Obs)

8290 R. Pegasi. 23010
22 59 +9.7
18 25
-4 34
East 8.6

10 48 In Var., Var 2 k. Waite obs.

10 55 Variable faint and the moon prevented my identifying the faintest comp. stars
2 comps, Attwill Obs

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1894phae.proj...527C

Friday, July 12 1895

δ Herculis

+10,2

1 G 7 1 5

GOKY

18 45
16 45

2 00

Cent. 8.6

11 08 h 1 ron ron 3 h

Attwell Clbr.

2 comps.

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1894phae.proj...527C

Monday July 15 1895

W Herculis

5889 +19°2 16319

19 15

16 19

2 56

Ests 9.1

37 10

11 ~~27~~ Var ~~2~~ m 3 var Attwell Obs

Seeing is poor: shifting haze.

75-60 R Vulpeculae. 20923

+23°2

19 43

21 00

-1 17

Ests 9.2

Attwell Obs

11 55 Variable too faint to see: could be seen if 2 grades fainter than "K"

7428 V Cygni. 20647

+47°6

19 52

20 36

-0 44

Est 10.1 Attwell Obs.

12 10 Variable too faint to see: "m" the faintest star on chart was seen with difficulty.

Sky still hazy.

2 comps.

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1894phae.proj...527C

Friday, July 19th, 1895.

3477 R. Leo. Min. 09634
9 37 +35°.2 Waite obs.
16 45
7 8
8 55 9 3 Var., Var. a L Est. 7.8

4315 R. Coma Ber. 11919
11 57 +19°.6 Waite obs.
17 00
5 03
9 04 m 3 Var. Region hazy, and could see no star fainter than the var. Var. at about L. T. for this region at this time.

4492 g. Virginis 12403
12 26 −3°.6 Waite obs.
17 10
4 44
9 19 Var not seen. Faint. Region rather hazy. Star at L. T.

3 comps.

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1894phae.proj..527C

Friday, July 19th, 1895.

4847 S. Virginis 13406
13 25 −6°.4 Waite obs.
17 25
4 00

9 28 c 3 Var., Var. 1f Est. 7.9

4596 N. Virginis 12706.
12 44 +6°.3 Waite obs
17 32
4 48

9 34 Var not seen. Faint. in easily seen.

N
⊕ O.

l S

Could see about 3 grades fainter than star ✗ (provisional notation)

5237 R. Bootis. 14527
14 31 +27°.4 Waite obs.
17 40
3 09

9 45 p 3 Var Var. 1 g Est. 10.4

4 comps, +)

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1894phae.proj...527C

Friday, July 19th, 1895.

5501 S. Serpentis. 15214.
15 15 +14°8 Waite obs.
17 50
2 35

9 55 f 4 Var., Var. 1 f Est. 8.8

7299 R. Cygni 20247.
20 15 +47°4 Waite obs.
18 00
2 15

10 2 f 3 Var., Var. 1 g Est. 8.8

6905 K. Sagittarii 19119
19 8 −19°6 Waite obs.
18 5
1 3

10 7 Var. not seen. Faint. Star is faintest on chart easily seen.

6921 S. Sagittarii. 19219
19 11 −19°3 Waite obs.
18 10
1 1

10 14 Var. not seen. Faint.

4 comps.

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1894phae.proj...527C

Friday, July 19th, 1895.

8373 S. Pegasi 23 20 8.
23 13 +8°.1 Waite obs.
18 15
— 4 58

10 20 m = Var. Var. 2 m Est. 11.0

Phot. Vars.
Z. Ophiuchi.
17 12 +1°.7 Waite obs.
18 30
1 18

10 40 f 3 Var., Var. 1 g. (letters on phot. chart.

M. P. 441.
3 30 +62°.1 Waite obs.
18 45
— 8 45

10 56 (+62° 5781) 1 Var., Var. 3 (+63°4451)

~~Esq~~ Tried for more of the phot. vars., but on account of low alt. haziness, time limit &c. was made to make more obs.

6 comps.

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1894phae.proj...527C

Posted to here.

Tuesday July 23 1895

17 00
18 22
3 38

R Hydrae.
-22.0-

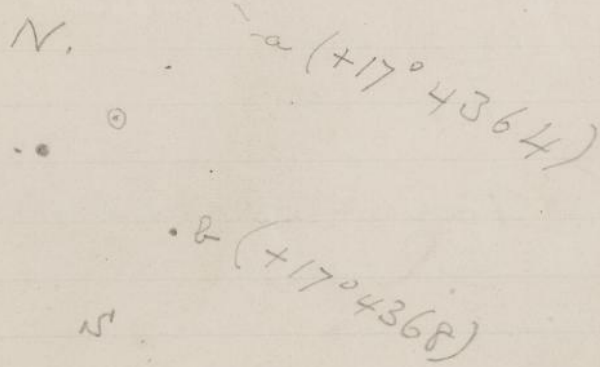
Est 12.0

8 35 Variable seen with difficulty; about 1 grade fainter than "w" which is the faintest star on chart (Attwill Obs.)

8 40 ~~iw~~ 2 Var. Waite obs.

Insp. Wells Susp. Var.
B.D. +17°4367
20 31 +17.8
17 15
3 16

9 06 (a) 1 Var., Var. 2 (b) Waite obs.
9 54 (a) 1 Var., Var. 1 (b) Attwill Obs.



5 comps. +1

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Tuesday, July 23rd 1895.

R. S. Librae. Phot. stars.

15 16 -22.°4.
18 20
3 04

10 09 -a = Var. Var. 2 b. Waite obs.
Above letters are letters on photographic chart

10 18 Var = a Attwell Obs.

R. S. Virginis.

Could not identify region from photographic charts. Waite obs

R. Persei.

1 50 +54°1
18 50
-7 00

10 40 Var. = d (phot. stars.) Waite obs.
11 00 Var = d Attwell Obs.

5 comps.

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Tuesday, July 23rd, 1895.

W. M. +49° 2614.

17 14 +49° 9 Wash obs.

13 50 W. M. +49° 2614 = W. M. +49° 2620.

Above observation made with field glass.

2 1 cm.

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1894phae.proj...527C

Friday, July 26, 1895.

V. Persei.

1 ∽ 2 +56:0

18 00

7 ∽ 2

9 25 Var. = c. Wait for Cst 12.0

9 45 1 c var var 1 x Atlwild Obs.

x is as below.

⊙ x

R. T. Cygni

10 01 (x) 2 Var., Var. 1 d. Wait obs

N.

S.

5 comps.

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1894phae.proj...527C

Friday, July 26 1895

s-9 5-5 R Draconis, 16566

19 21
16 32
2 49

+67,1

10 48 ra = k Atwill Obs.

Est. 11.0

10 51 k 2 Var., Var 1 b. Waite obs.

3 comps.

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1894phae.proj..527C

Sunday, July 29, 1894.

4057 S Ursae Maj. 12661
+61°,9

18 23
12 38
+ 5 45

Attwill Obs.
Est. 12.2

9 45 Variable too faint to see; could see if it were about 2 grades fainter than T.

5190 R Camelop. 14484
+84°,5

18 32
14 29
+ 4 03

Est 8.0
Attwill Obs.

9 53 Var = b.

S Bootis
+54°,5

18 37
14 18
+ 4 19

Est. 12.1
Attwill Obs

9 58 Variable too faint to see; could be seen if 1 grade fainter than "h".

1 comp.

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1894phae.proj..527C

Sunday July 28, 1895

40-11 I Ursae Maj. 12.60

18 45
12 30
+6 15

+60°.3 Est. 12.5

Attwill Obr

10 05 Variable suspected: almost at limit of visibility for my eye.

3820- R Ursae Maj. 10664

+69.5-

18 58
10 34
+8 24

Est 8.6

Attwill Obr.

10 19 N 1 var, var 3 k

2 comps.

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1894phae.proj..527C

Tuesday July 30, 1895

17 20
14 22
+2 58

R. S. Virginis

8 34 Variable too faint to see. Waite } Attwell Obr.

2478 R. Lyncis. 06855
6 49 +55°.5
17 38
10 49

8 45 Var. not seen. Moon and much haziness. Wt. + At. Obr.

5748 R Ursae Min. 16572
+74 72°.6

17 56
16 32
1 24

8 58 Var. = d. } Est 9.0 Wt. Obr
9. 09 d, var var 3 e } Attwell Obr

432 S. Cass. 01272
1 9
18 10
−6 59

9. 20 Var. not seen. Faint. Wt. + At. Obr.
in easily seen. Moon and haze. 3 comps

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1894phae.proj...527C

Tuesday, July 30, 1895

1855 R Aurigae 05 15 3
+53.4

18 15
5 06
13 09

7 30 Region too obscured by light cloud { Wt & Att. Obs.

107 Tc Cass. 00 25 5
0 15 +54°9
18 20
5 55 Est 7.7

9 35 cl 1 Var. Var. 3 e. Wt. obs

9 38 d 3 Var Var 2 e Att. Obs.

86 00 K. Cass. 23 9 0

18 30
23 51
+8 39 Est 10.0

9 40 0 2 Var., Var. 3 p. Wt. obs.

[0 - 01 N 2 Var Var 20. Att. Obs

8 comps.

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1894phae.proj..527C

Tuesday, July 30, 1895.

2137 S. Cephei. 21678.

Est 12.0

10 10 l 2 Var. Var. 2 mm Wo. Sr.

10 23 Variable almost at limit of visibility for my eye
Attwill Obs.

T. Andromedæ.

0 17 + 26° 2

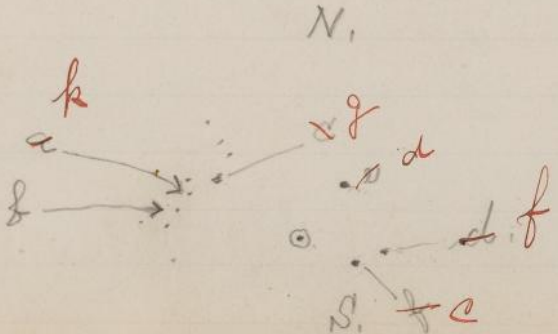
19 40

− 4 37

10 55 (a) 2 Var. Y 2 (b.) Waite Obs.

11 12 a 2 var var 2 b Attwills Obs.

Letters in provisional notation
according to diagram below.



6 comps.

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1894phae.proj..527C

Wednesday, July 31, 1894.

T. Cephei. 21 | 67.

21 8 +67°.9 Waite obs.

17 30

– 3 38

8 40 f 4 Var. Var. 1 lg. Est. 7.9

T. Persei. 02258 b.

2 9 +58°.3 Waite obs.

17 40

– 8 29

8 50 c 3 Var., Var. 1 cl. Est. 8.5

S. Persei. 02258 a.

2 12 +57°.9 Waite obs.

17 55

– 8 17

9 05 Var. not seen. Faint. k easily seen, and l at about L. V. of moon and much brighter.

4 comps.

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1894phae.proj..527C

Wednesday, July 31st, 1895.

5955. R. Draconis. 16566.
16 32 +67°.1 Wachsmuth
18 00
1 28

9 10 k 2 Var., Var. 2 l. Est. 10.5

9 20 Sky all cloudy.

10 10 Sky clearing.

5889 α Ursæ Min. 16319.
16 19 +19°.2 Wachsmuth
19 00
2 41

10 20 0 1 Var., Var. 3 f. Est. 10.0

7428 γ Cygni. 20647
20 36 +47°.6 Wachsmuth
19 10
-1 26

10 28 Var. not seen. Faint, as easily seen, and is faintest star on chart. Moon and some haze.

4 comp.

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1894phae.proj...527C

Wednesday, July 31st, 1895

7560 R. Vulpeculae. 20923.

21 00 +23°.2 Waite obs.

19 20

– 1 40

10 36 Var. ft. Almost at L. V. (f)5 var.

V in provisional notation as follows.



T. Androm.

0 17 +26°.2 Waite obs.

19 30

– 4 47

10 50 (a)1 Var., Var. 3(b) a + b in provisional notation. See page 204 in this book.

2 comps.

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1894phae.proj..527C

Thursday, Aug. 1, 1895.

8 00 Sky cloudy.

9 00 Sky clearing.

7259 R. S. Cygni. 20838.

20 8 +38°3 Waite obs.

18 10

1 58

9. 20 d 1 Var., Var. 2 e Est. 7.5

9 40 cloudy.

7045 R. Cygni. 19549.

19 33 +49°9 Waite obs.

18 50

0 43

9 55 d 2 Var. Var. 2 e Est. 7.5

10 00 Sky cloudy.

10 30 Sky cloudy.

11 00 Sky cloudy.

14 00 Sky still cloudy.

4 comps.

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1894phae.proj..527C

Wednesday, Aug. 7, 1895.

T. Cephei.

21 8
23 8
2 00

+67°.9 Waite obs.

13 55 f 1 Var., Var 4 g. Est. 7.2

Sky rather cloudy, and very hazy.

7 = 99 α. Cygni. 20 = 4.7

20 15 +47°.4 Waite obs.

23 15
3 00

14 00 h 1 Var., Var. 3 k Est 10.0

T. Andromedæ.

0 17
23 25
0 52

+26°.2 Waite obs.

14 20 Too much cloudiness and moon quite near. Could not see var.

4 comps.

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1894phae.proj...527C

Wednesday, Aug. 7, 1895.

7468 T. Aquarii. 20705

20 42
23 42
3 00

14 35 Var. not seen. m easily seen.

R
8290 ~~δ~~ Pegasi. 23010

22 49 +9°8 Waite obs.
0 00
1 01

14 45 Region cloudy, Could not identify.

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1894phae.proj..527C

Thursday, August 8, 1895

4057 S Ursae Majoris 12661
+61°.9 (faintest thorn)
Est 11.0

20 18
12 36
7 42

10 55 Variable too faint to be seen: could be seen if 3 grades fainter than k which is the faintest comparison which can be seen on account of moonlight.
Attwell Obs

3825 R Ursae Majoris 10669
+69.5
Est. 8.7

20 38
10 34
10 04

11 30
~~+0 45~~ ~~Var. 3 h~~ Var. 3 k Attwell Obs

432 S Camelopardi 01272
+71.8
(fainter than)
Est 11.0

20 09
21 05
— 4 04

11 40
+2 Variable too faint to see: could be seen if 4 grades fainter than "m". Attwell Obs

2 comps.

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1894phae.proj..527C

Thursday, August 8, 1895

5955 R Draconis 16 56 6
+67.1°

21 17
16 32
f X X 5

Est 10,0

11 55 Var = m Attwell Obs

5157 S Bootis 14 35 4
+54.5° (fainter than)

21 27
14 18
7 09

Est 11,0

12 04 Var a little too faint: could see if I made Attwell Obs fainter than "g" which is the faintest visible comp. star.

5190 R Coronæ 14 48 4

21 35
14 29
7 06

Est 8.0

12 12 Var = b Attwell Obs

2 comps.

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1894phae.proj...527C

Thursday, August 8, 1895.

4511 I Ursae Maj. 12560
+60°.3

21 43
12 30
9 13

Est. 11,0

12 20 Could not see companion; ζ, the faint visible comp. of 80 was seen with difficulty.
Attwell Obs.

5948 R Ursae Min. 16072
+72°.6

21 50
16 32
5 18

Est. 9,5
Attwell Obs.

12 29 d 1 var var 4 d
Attwell Obs.

R Aurigae
1855 +53.4 05153
29 06
22 05
7 01

Est. 7,5
Attwell Obs.

12 42 var = d

3 comps.

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1894phae.proj..527C

Thursday August 8 1895.

7220 ν Cygni. 20057
+53°7'.5

22 18
20 02
+2 16

Est 10,0

12 55 Var = e

Attwell Obs.

7560 Ki Vulpec. 20923
21 00 +23°2 Waite Obs.
23 40
2 40

14 25 m 4 Var. Var. = (4) Est. 11.0

N.

*
4
m ⊙
S

7428 γ Cygni. 20647
20 36 +47°6 Waite Obs.
23 50
3 14

14 30 Var not seen. Faint. m easily seen.

3 comps.

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1894phae.proj..527C

Thursday, Aug. 8, 1895

T. Andromedae.

0 17 +26°.2 Waite obs.
0 00

0 17

14 39 Var. = c

For star c, see p. 204 this book.

7261 R. Delphini. 20108
20 8 +8°.7 Waite obs.
0 10

4 02

14 48 Var. not seen. Faint. m easily seen.

8290 R. Pegasi. 23010
22 59. +9°.8 Waite obs.
0 20

1 21

14 55 m 2 Var. Var. 2 m Ost. 10.0

Waite's obs. much troubled by clouds.

15 10 Sky 2S 10Q all cloudy

3 comps.

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1894phae.proj..527C

Tuesday, Aug. 13, 1895.

T. Cudnow.

0 17
22 17
-2 00

+26°2 Waitt obs.

12 30 (d) 4 Var. Var. 1 (c.) prov. notation.

(See page 204 in this book for stars d and c

2 comps.

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1894phae.proj...527C

Wednesday, Aug. 14, 1895

107 T Cassiopeiæ 00 25 50
+55° 0

0 15
17 36
− 6 09

Est. 8,0
Attwell Obs.

7 57 Var = l

7779 S Cephei 21 6 78
+78° 0

21 37
18 35
− 3 02

8 36 Variable about 2 grades fainter than "l" which is the faintest comp. star I could see Attwell Obs.
Est. 12.5

8 45 ~~Var. = l,~~ l = Var., Var. 3 mm. Att obs

8600 R Cassp. 23 9 50
+50° 6

23 07
18 56
+5 01

Est. 9,0
Attwell Obs.

8 55 Var = n

4 comps.

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1894phae.proj.5270

Wednesday, August 14, 1895.

814 ν Persei 02258 a
+57°9

2 13
18 38
−7 15

Est. > 12.0

7·23 Variable too faint; could be seen if 2 grades fainter than "k" which is the faintest comp. star & could see it. Attwell Obs

5504 ν Draconis 15231

19 35
15 15
+4 20

9 58 Could not see variable; could see it if about 4 grades fainter than "o" which is the faintest comp. star on chart. Attwell Obs.

10 00 Var. = star (X) + in prov. notation. Wt. obs.

N.



S.

1 comp.

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1894phae.proj.:5270

Wednesday, Aug. 14, 1895

5889 D Herculis 16319

~~S Coronae~~

16 19 +19°.2

20 09

3 50

10 18 Var = f Attwill Obs.

10 22 .0 3 Var. Var. 1 f. Est. 11.0 Wt. Obs.

5950 W Herculis 16537
+37°.6.

20 22

16 30

+3 5-2

Est 8.5

10 34 Var = d Attwill Obs.

T Anderson.

0 17 +26°.2

10 33 d 2 Var., Var. 2 C Wt. Obs.

10 40 C 2 var var 2 d Attwill Obs.

(S lifting clouds over region at time of this estimate)

See p. 204 for comp. stars.

8 comp.

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