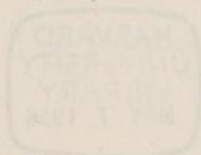


KG  
11365  
457

KG 11 365.457

West Equatorial  
Observations.





K6 11365.457



/s

/

Monday, April 18, 1898.

S. S. Cygnus

21 37 +42.9 Wait obs.

17 37

- 4 00

15 40 C ~~1~~<sup>2</sup> Var., Var. 2 ~~8~~<sup>h</sup> Est 11.3

S. Cephei

21 37 +78.0 Wait obs.

17 41

- 3 58

15 46 k 2 Var. Var. 3 l. Est. 9.8

Friday, May 20, 1898.

S. L. Cygni.

21 37  
19 00

+42.9 Wait obs.

14 5-2 <sup>a</sup> ~~h~~ 2 Var., Var. 3 <sup>c</sup> ~~k~~. Est. 7.7

S. Cephei.

21 37  
19 10  
- 2 27

+78.0 Wait obs.

14 5-9 Region too hazy.

Saturday, May 21, 1898.

S. S. Cygni.

$$\begin{array}{r} 21 \quad 37 \\ 19 \quad 00 \\ \hline -2 \quad 37 \end{array}$$

+42°.9 Wente obs.

14 55 a 4 Var., Var 2 c Est. 8.0

✓ To-night is the first time that the new notation for S. S. Cygni has been used by Wente.

S. Cygni.

$$\begin{array}{r} 21 \quad 37 \\ 19 \quad 10 \\ \hline -2 \quad 27 \end{array}$$

+78°.0 Wente obs.

15 04 g 4 Var., Var. 1 h Est. 9.0

Sunday, May 22, 1898.

S. S. Cygnus.

21 37 +42.9 Wantebe  
 19 05  
 ✓ 19 05  
 -2 32

14 52 a 4 Var., Var., 1 c End 8.0

Tuesday, June 7, 1898.

S. S. Cygnus.

420.9 Warts obs.

|     |    |
|-----|----|
| 21  | 37 |
| 17  | 35 |
| - 4 | 02 |

12 23

4 Var., 0 1 Var. p not seen.

Bothered by haze and moonlight

Thursday, June 9, 1898.

S. S. Cygni.

21 37 +42.9 Wailt obs

20 00

- 1 37

14 37 Var. not seen. Region very  
hazy. Could see about  
2 grades fainter than  
star in

Sunday, June 12, 1898.

S. S. Cygnus.  
 21 37 + 42.9 Wait-obs.  
 20 10  
 — 1 27

14 30 m 5 Var, Var. = 0 Est. 11.2

c Bothered by clouds.

Tuesday, June 14, 1898.

S. S. Cygni

+42.9 Waiter obs

$$\begin{array}{r} 21 \quad 37 \\ 20 \quad 06 \\ \hline 1 \quad 37 \end{array}$$

14 10 ✓ 0 2 var., var. 1 p Est. 11.5

S. Cephei

+78.0 Waiter obs

$$\begin{array}{r} 21 \quad 37 \\ 20 \quad 07 \\ \hline 1 \quad 30 \end{array}$$

14 17 g 1 var. var. 4 h Est. 9.0

Thursday, June 16, 1898

*S. S. Cygni.*

21 37 +42.9 Wait-obs.

19 30

- 2

13 34 ✓ 0 2 Var., Var. 1 f, Est. 11.5

*S. Cephei.*

21 37 +78.0 Wait-obs

19 37

- 2 00

13 41 e 5 Var., Var. 1 f, Var. 3.8, Est. ~~78.8~~

Friday, June 17, 1888.

S. Cephei.

$$\begin{array}{r} 21 \quad 37 \\ 20 \quad 05 \\ \hline -1 \quad 32 \end{array} \quad +78^{\circ}.0 \quad \text{Waiter obs.}$$

14 01 e 5 Var., Var. 2 f. Est. 9.0

S. S. Cygni.

$$\begin{array}{r} 21 \quad 37 \\ 20 \quad 15 \\ \hline -1 \quad 22 \end{array} \quad +42^{\circ}.9 \quad \text{Waiter obs.}$$

14 14 00 1 Var., Var. 2 f. Est. 11.4

Tuesday, June 21, 1898.

S. Cephei.

$$\begin{array}{r} 21 \quad 37 \\ 20 \quad 25 \\ \hline -1 \quad 12 \end{array} \quad +78^{\circ}.0 \text{ Waiter obs}$$

14 14. e 4 Var., Var. 2 f Est. 9.0

S. S. Cygni.

$$\begin{array}{r} 21 \quad 37 \\ 20 \quad 30 \\ \hline -1 \quad 07 \end{array} \quad +42^{\circ}.9 \text{ Waiter obs}$$

14 20. 0 0' 3 Var., Var. = 1/2. Est. 11.5

Wednesday, June 22, 1898.

S. S. Cygni.

21

37

+42.9 Wait obs.

20

00

13 28 J 0 2 Var., Var. 1 p. Est. 11.5

S. Cephei.

21

37

+78.0 Wait obs.

20

07

- 1 30

13 37 e 3 Var., Var 2 f. Est. 9.0

Friday, June 24, 1898,

S. S. Cygni,

21 37  
20 16

+42.9 Wait-obs.

13 46 ✓ 0 2 Var., Var. 1 p. Est. 11.5

S. Cephei.

21 37  
20 14

+78.0 Wait-obs.

13 53 -g 1 Var., Var. 3 h Est. 9.0

Sunday, June 26, 1898.

S. S. Cygni.

$$\begin{array}{r} 21 \quad 37 \\ 20 \quad 07 \\ \hline -1 \quad 30 \end{array}$$

+42.9 Wartsch

13 30 00 1 Var., Var. 2 Jr. Est. 11.3

S. Cephei.

$$\begin{array}{r} 21 \quad 37 \\ 20 \quad 15 \\ \hline -1 \quad 22 \end{array}$$

+78.0 Wartsch

13 39 -g = Var., Var 5-h Est. 9.0

Thursday, June 30, 1898.

S. S. Cygnus

21 37  
 20 47  
 - 0 50

4 2.9 Wint-obs

13 46 C 0 1 Var, Var 2 p. Est. 11.3

S. Cephei. \*

21 37  
 20 51  
 - 0 46

+ 78.0 Wint-obs

13 52 g 3 Var, Var 2 h Est. 9.3

Friday, July 1, 1898.

S. S. Cygni.

21 37  
20 42  
- 0 55

+ 42.9 Wait ok

13 47

Clouds and bright moon -  
light. Var. not seen. Faint.

S. Cephei.

21 37  
20 47  
- 0 50

+ 78.0 Wait ok

13 54

- 8 4 Var., Var. 1 L Est. 9.3

Clouds. Clouds.

Tuesday, July 5, 1858.

S. Cephei.

$$\begin{array}{r} 21 \quad 37 \\ 21 \quad 03 \\ \hline -0 \quad 34 \end{array} \quad +78^{\circ}.0 \text{ Wait-obs.}$$

13 54 -g 5 Var., Var. = h. Est. 9.4.

S. Cygni.

$$\begin{array}{r} 21 \quad 37 \\ 21 \quad 10 \\ \hline -0 \quad 27 \end{array} \quad +42^{\circ}.9 \text{ Wait-obs.}$$

14 05 c 0 1 Var., Var. 2 p. Est. 11.3

Thursday, July 7, 1898

S. S. Cygnus.

$$\begin{array}{r} 21 \quad 37 \\ 21 \quad 07 \\ \hline -0 \quad 20 \end{array} + 42.9 \text{ Warts obs.}$$

13 48 ✓ 0 3 Var., Var. = p. Est. 11.5

S. Cygnus.

$$\begin{array}{r} 21 \quad 37 \\ 21 \quad 14 \\ \hline -0 \quad 23 \end{array} + 78.0 \text{ Warts obs.}$$

13 56 g 5 Var., Var. = h Est. 9.4

Thursday, July 14, 1898.

S. S. Cygnus

21 37  
22 210  
0 53

+42° 3' W. obs.

14 50 No 2 Var, Var 1 p. Est. 11.4

Bothered by clouds.

S. Cephei

21 37  
22 47  
1 10

+78° 0' W. obs.

15 15

Var. not seen. Sky all cloudy and daylight approaching. Could not see fainter than 6<sup>th</sup> mag. in this region and nothing visible at 15:15

Friday, July 15, 1898.

S. S. Cygni.

21 37  
~~22~~ 30  


---

0 53

+42.9 Waiter obs.

14 46 ✓ 0 2 Var., Var. 1 p. Est. 11.4

S. Cephei.

21 37  
 22 35  


---

0 58

+78.0 Waiter obs.

14 51 h 2 Var., Var. 3 h. Est. 9.6

Saturday, July 16, 1898.

S. S. Cygni.

21 37

22 30

— 0 53

+42.9 Wait obs

14 42 C m 2 Var., Var. 10 Est. 11.0

S. Cephei.

21 37

22 36

— 0 59

+78.0 Wait obs.

14 49 L 2 Var., Var. 3k. Est. 9.6.

Friday, July 22, 1898

S. S. Cygni.

21 37  
 21 17  
 - 0 20

+42.9 Wante obs.

13 000 d = Var., Var. 4 e Est. 8.3

15 020 C 2 Var., Var. 1 d Est. 8.2

Friday, July 29, 1898.

S. S. Cygni.

$$\begin{array}{r} 21 \quad 37 \\ 23 \quad 40 \\ \hline 2 \quad 03 \end{array} + 42.9 \text{ Wait obs.}$$

15 06 v m 1 Var., Var. 2 m Est. 10.8

S. Cephei.

$$\begin{array}{r} 21 \quad 37 \\ 23 \quad 46 \\ \hline 2 \quad 09 \end{array} + 78.0 \text{ Wait obs.}$$

15 14 h 3 Var., Var. 3 h Est. 9.6

Saturday, July 30, 1898.

S. S. Cygni.

|    |    |
|----|----|
| 21 | 37 |
| 23 | 40 |
| 2  | 03 |

+ 42.9 White obs

15 10 0  $m = \text{Var.}, \text{Var. } 2 \ 0 \text{ Est. } 11.0$

S. Lepher.

|    |    |
|----|----|
| 21 | 37 |
| 23 | 50 |
| 2  | 13 |

+ 78.0 White obs

15 23  $L \ 3 \ \text{Var.} \ \text{Var. } 2 \ k. \text{ Est. } 9.6$

Bothered considerable by clouds  
and had seeing in both of  
above observations.

Monday, Sept. 12, 1898.

S. S. Cygni.

|       |       |
|-------|-------|
| 21    | 37    |
| 4     | 13    |
| <hr/> | <hr/> |
| 6     | 36    |

+42.9 Waiter obs.

16 30 ~~comp~~ 2 Var., Var. 1 ~~2~~ Est. +5.9

Troubled by cloud and haze.  
Above estimate not thought to be  
very good.

Note: Above comp. stars in pencil are  
old notation; changed in ink to new.

Tuesday, Sept. 13, 1898

S. S. Cygini.

$$\begin{array}{r} 21 \quad 37 \\ 0 \quad 20 \\ \hline \end{array}$$

+42.9 Waiter's.

$$\begin{array}{r} 2 \quad 53 \\ \hline \end{array}$$

12 32 ✓ E 1 Var., Var 3 f Est. 8.9

$$\begin{array}{r} 21 \quad 37 \\ 3 \quad 18 \\ \hline 5 \quad 41 \end{array}$$

+42.9

15 30 E 1.5 Var., Var 2.5 f Est. 8.9

Wednesday, Sept. 14, 1898.

S. S. Cygni

+42°.9 Waiter obs

|       |    |
|-------|----|
| 21    | 37 |
| 23    | 20 |
| <hr/> |    |
| 1     | 43 |

11 36 ve 2 var., var. 2 f Est. 9.0

Friday, Sept. 16, 1898.

S. I. Cygnus

21 37  
2 27

+42.9

Went obs

14 40 0  $\frac{5}{2}$  3 Var., Var. 1 f

Est. 90.5

Saturday, Sept. 17, 1898,

S. S. Cygni

21 37  
0 00

+ 42.9 wait obs

11 57 c f 1 <sup>2</sup> Var., <sup>23</sup> Var 4 g. Est. 9.5

Sunday, Sept. 18, 1898.

S. S. Cygni.

21 37  
 3 27  
 5 50

+42.9 Wait-obs.

15 25 v-g 2 Var., Var. 3 ~~h~~k Est. 10.0

S. Cygni.

21 37  
 3 37  
 6 00

+78.0 Wait-obs.

15 35 Var. thought to be seen, but owing to heavy sand increasing haze could not get an estimate.

Tuesday, Sept. 20, 1898,

S. S. Cygni.

$$\begin{array}{r} 21 \\ 3 \\ \hline 5 \end{array} \quad \begin{array}{r} 37 \\ 30 \\ \hline 53 \end{array}$$

+42°.9 Wait-obs

15 19 cm = Var., Var. 4 m Est. 10.8

S. Cephei.

$$\begin{array}{r} 21 \\ 3 \\ \hline 6 \end{array} \quad \begin{array}{r} 27 \\ 37 \\ \hline 50 \end{array}$$

+78°.0 Wait-obs

15 27 f 4 Var., Var. 1-g. Est. 9.0

Wednesday, Sept. 21, 1898

S. Ceph.

+78.0 Waiter obs

$$\begin{array}{r} 21 \quad 37 \\ 3 \quad 57 \\ \hline 6 \quad 20 \end{array}$$

15 35 f 5 Var., Var. = g. Est. 9.0

S.S. Cygnus

+42.9 Waiter obs

$$\begin{array}{r} 21 \quad 37 \\ 4 \quad 02 \\ \hline 6 \quad 25 \end{array}$$

15 41 c m 2 Var., Var. 20 Est. 11.0

Wednesday, Oct. 5, 1898.

S. S. Cygni.

|       |    |
|-------|----|
| 21    | 37 |
| 4     | 05 |
| <hr/> |    |
| 6     | 28 |

+42.9 Wait obs.

15 12 c Sky hazy and moon bright, but  
variable thought to be about equal  
to star 0. Est. 11.0

S. Cephei.

|       |    |
|-------|----|
| 21    | 37 |
| 4     | 12 |
| <hr/> |    |
| 6     | 35 |

+789.0 Wait obs.

15 21 f 2 Var, Var 3-g. Est. 8.8

Thursday, Oct. 6, 1898.

0 Ceti. Waite obs.

12 10 -g 2 Var., Var. 1 h (Naked eye obs.)

S. Cephei.

21 37  
4 30  
6 53

+78.0 Waite obs.

15 20 f 1 Var., Var. 4 g. Est. 8.8.

S. S. Cygni.

21 37  
4 39  
7 02

+42.9 Waite obs.

15 29 @ 7 0 1 Var., Var. 2 g. Est. 11.4

0 Ceti.

15 35 -g 3 Var., Var. = h (Naked eye obs.)

Saturday, Oct. 8, 1898.

0 Ceti. Waiter obs.

12 45 g 2 Var. Var. 1 h (Naked eye obs.)

S. Cephei.

21 37  
2 50  
5 13

+78°.0 Waiter obs.

13 30

f 1 Var., Var. 4 g.

Est. 8.8

S. S. Cygni.

21 37  
3 02  
5 25

+42°.9 Waiter obs.

13 43

0 1 Var., Var. 2 p.

Est. 11.4

Above observations copied from  
original records.

Sunday, Oct. 9, 1898.

1 Ceti. Waiter obs.

11 45 ~~X~~ 1.5 Var., Var. 1.5 h (Naked eye obs.)

S. S. Cygni.

21 37  
3 57  

---

6 20

+ 42.9 Waiter obs.

14 32 0 2 Var., Var. 1 p Est. 11.5

S. Cephei.

21 37  
4 06  

---

6 29

+ 78.0 Waiter obs.

14 42 f = Var., Var. 5-g. Est. 8.6

Thursday, Oct. 13, 1898

41#  $\frac{0}{g}$  1 Var., Var 3h Wait=obs.  
(Naked eye obs.)

S. S. Cygni

$$\begin{array}{r} 21 \quad 37 \\ 0 \quad 37 \\ \hline 3 \quad 00 \end{array}$$

+ 42.9 Wait=obs.

10 51 0 1 Var., Var 2 p. Est. 11.4

S. Cephei

$$\begin{array}{r} 21 \quad 37 \\ 0 \quad 42 \\ \hline 3 \quad 05 \end{array}$$

+ 78.0 Wait=obs.

g 1 Var Var 4h Est. 8.2

10 56 Considerable haze during  
all of above observations

Monday, Oct. 17, 1898.

9 30 <sup>0 Ceti.</sup>  
-g 4 var., var. = h, var. 2 h. Waiter obs

S. S. Cygni.  
21 37 +42°9 Waiter obs  
0 30  
2 53

10 22 0 1 var., var. 2 p. Est. 11.4

S. Cephei.  
21 37 +78°0 Waiter obs  
0 37  
3 00

10 29 -g 4 var., var. 1 h Est. 8.5

May 12, 1899. (Friday.)

S. S. Cygni.

21 39

+43°. Wait-obs.

15 39

Regular circumpolar  
charts used to - night.

- 6 00

Est. 8.5

12 12 a 5 Var. Var. 2 C.

R. Mus. Maj.

10 34

+69° 3.2' Wait-obs.

15 55

5 21

12 35 ± 2 Var., Var. = n. Fit. about 13.0.  
Difficult.

S. Mus. Maj.

12 38

+61° 53' Wait-obs.

16 15

3 37

12 48 f 3 Var., Var. 1 g. Est. 8.8

T. Mus. Maj.

12 30

+60° 17' Wait-obs.

16 30

4 00

12 57 k 5 Var., Var. 1 l Est. 10.0

May 12, 1898.

D. Cephei

$$\begin{array}{r} 21 \ 8 \\ 16 \ 40 \\ \hline - \ 4 \ 28 \end{array} \quad +67^{\circ} 54' \quad \text{Waite obs.}$$

13 07 l 3 Var., Var. 2 m Est. 9.5

S. Cephei

$$\begin{array}{r} 21 \ 37 \\ 16 \ 50 \\ \hline - \ 4 \ 47 \end{array} \quad +78.0 \quad \text{Waite obs.}$$

13 16 0 1 Var. Var. 2 p Est. 12.2

S. Cygni

$$\begin{array}{r} 20 \ 2 \\ 17 \ 00 \\ \hline - \ 3 \ 02 \end{array} \quad +57^{\circ} 6' \quad \text{Waite obs.}$$

13 30 Var. too ft. Not seen. < 12.5  
g at limit of visibility.

S. Cass.

$$\begin{array}{r} 1 \ 9 \\ 17 \ 10 \\ \hline - \ 7 \ 59 \end{array} \quad +71^{\circ} 8' \quad \text{Waite obs.}$$

13 45 Var. too ft. Not seen < 13.0  
s at limit of visibility.

May 12, 1899.

J. Cass.

$$\begin{array}{r} 0 \quad 15 \\ 17 \quad 20 \\ \hline 6 \quad 55 \end{array} + 55.0 - \text{Wait obs.}$$

$$13 \ 53 \quad f \ 3 \ \underline{\text{Var.}}, \ \underline{\text{Var.}} = g, \quad \text{Est. } 8.4$$

R. Mr. Vinn.

$$\begin{array}{r} 16 \quad 32 \\ 17 \quad 32 \\ \hline 1 \quad 00 \end{array}$$

+72.06 Wait obs.

$$14 \ 00 \quad c \ 3 \ \underline{\text{Var.}}, \ \underline{\text{Var.}} = d, \quad \text{Est. } 9.5$$

S. Booth.

$$\begin{array}{r} 14 \quad 18 \\ 17 \quad 40 \\ \hline 3 \quad 22 \end{array}$$

+549.5 Wait obs.

$$14 \ 08 \quad e \ 5 \ \underline{\text{Var.}}, \ \underline{\text{Var.}} = f, \quad \text{Est. } 10.0$$

R. Camélopardis.

$$\begin{array}{r} 14 \quad 29 \\ 17 \quad 50 \\ \hline 3 \quad 21 \end{array}$$

+849.5 Wait obs.

$$14 \ 17 \quad h \ 2 \ \underline{\text{Var.}}, \ \underline{\text{Var.}} = c, \quad \text{Est. } 8.2$$

May 12, 1899.

*R. Draconis.*

$$\begin{array}{r}
 16 \quad 32 \quad + 67.1 \text{ Wait-obs.} \\
 17 \quad 5-8 \\
 \hline
 1 \quad 26
 \end{array}$$

14 24 k 3 Var., Var. 1 l Est. 9.8*S. Persei.*

$$\begin{array}{r}
 2 \quad 12 \quad + 57.9 \text{ Wait-obs.} \\
 18 \quad 12 \\
 \hline
 - 8 \quad 00
 \end{array}$$

14 33 f 2 Var., Var. 3 g. Est. 10.0*T. Persei.*14 40 c 3 Var., Var. = d Est. 8.5*R. Lynx.*

$$\begin{array}{r}
 6 \quad 49 \quad + 55.5 \text{ Wait-obs.} \\
 18 \quad 20 \\
 \hline
 11 \quad 31
 \end{array}$$

14 45 Region low + hazy, but few stars in region visible.  
Var. not seen.

PostedR. An May 12, 1899.

R. Anrigae.

+53°.4 Wait-obs.

$$\begin{array}{r}
 5-6 \\
 18-25 \\
 \hline
 10-41
 \end{array}$$

14 50

Region low and hazy  
Var. not seen.

R. Cass.

+50°.6 Wait-obs.

$$\begin{array}{r}
 23-51 \\
 18-35 \\
 \hline
 5-16
 \end{array}$$

15 00

 $d = \text{var. var } \times f, \text{ Est. } 6.5$





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