1899pmae.proj...4570

KG
11365
456

A. R. Colson, Jr.

Note Book of

Visual Observations

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KG-11365.456

1899phre.proj..4676

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1899phae.proj..457C

West Equatorial Record

H. R. Colson, Jr.

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KG 11365.456

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1899phae.proj..457C

Monday April 10, 1899.

E. J.

14 10 S. S. Cygni 21 39 +43.°0

Too faint to estimate, Fainter than 1, Seeing poor.

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1899phae.proj..457C

Tuesday April 11, 1899.

13 00 S. S. Cygni 21 39 +43°

Still faint. Seeing poor.
Can only see variable at times, and
then only by using indirect vision.

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1899phae.proj..457C

Wednesday April 12. 1899.

13 50 S. S. Cygni 21 39 +43.°

Var = 0 approx

Seeing fairly good at times, for a few seconds only, as storm has just passed, and there is still broken cloud & haze.

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1899phae.proj..457C

Saturday April 15, 1899.

14 55- S. S. Cygni 21 39 +43°

Var still faint, approx same brightness as o

Too cloudy to get a good estimate.

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Monday April 19. 1899.

12 45 S. S. Cygni 21 39 +43°

Var. fainter than 0..

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1899phae.proj..457C

Saturday April 22, 1899.

15 25 S. S. Cygni 21 39 +43.°

Var = 0

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1899phae.proj..457C

Sunday April 23. 1899.

13 30 S. S. Cygni 21 39 +43°
Var. invisible,
Bright-moon, low altitude and haze

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1899phae.proj..457C

Wednesday April 26. 1899.

15 00 S.S. Cygni 21 39 + 43°

Var. invisible on account of haze and cloud, although stars c. f. and g could be seen with out any difficulty-

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1899phae.proj..457C

Thursday. April 27. 1899.

14 40 S. S. Cygni 21 39 +43°

O IV.

Seeing fairly good.

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1899phae.proj..457C

Friday April 28. 1899.

13 20 S. S. Cygni 21 89 +43°

Var = 0

Moon bright; making both stars so faint that they are just on the limit of visibility.

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1899phae.proj..457C

Wednesday May 3. 1899.

12 50 S.S. Cygni $21^h\ 39^m$ +43.0

a 3V

v β^4c

V 3d

Last comparison made with difficulty on account of comp. star (d) being so far away from the Var.

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1899phae.proj..457C

Thursday May 4, 1899.

14 ov-

S.S. Cygni 21 39 +43.°

V 3c
a 4V

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1899phae.proj..457C

Friday May 5. 1899.

12 00 S. S. Cygni 21 39 +48°

✓ 4c

a 4v

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1899phae.proj..457C

Saturday May 6. 1899.

14 20 S S Cygni $21^h 39^m$ $+43°$

√ 3c
a 3√

Seeing good.

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1899phae.proj..457C

Sunday May 7. 1899.

13 45

S. S. Cygni $21^h\ 39^m$ $+43°$

a 2V

V 4C

Thick haze.

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1899phae.proj..457C

Tuesday May 9. 1899

12 35 S. S. Cygni $21^h 39^m$ $+43.°$

a 4V
V 3C

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1899phae.proj..457C

Wednesday May 10. 1899.

13 17 SS Cygni 21h 39m +43°

a 4v

v 3c

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1899phae.proj..457C

Thursday May 11. 1899.

13 40 SS Cygni 21h 39m +43°

V 2c
a 5V

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Friday May 12, 1899.

12 15- S. S. Cygni 21 39 +43°

V 2e
a V-V

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1899phae.proj..457C

Saturday May 13. 1899.

15- 30- S.S. Cygni 21 39 +43°

C 3V

V 3f

Twilight - Strong and clouds passing over region.

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1899phae.proj..457C

Sunday May 14. 1899.

14 27 S. S. Cygni 21 39 +43°

f g IV
V 37 g

Pur. Colson thinks the above order of letters may have been inverted. As it seems probable, it has been so assumed.

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1899phae.proj..457C

Monday May 15. 1899.

12 00 S. S. Cygni $21^h\ 39^m$ $+43°$

9 4V

9r 6 m

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1899phae.proj..457C

Friday June 2. 1899.

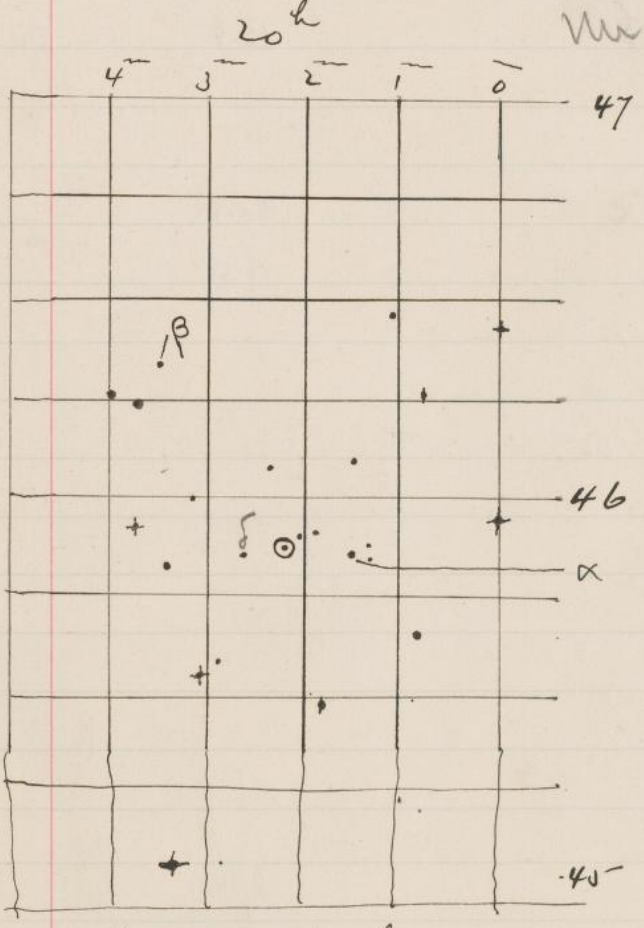
Ceraski's Algol Var

13 34

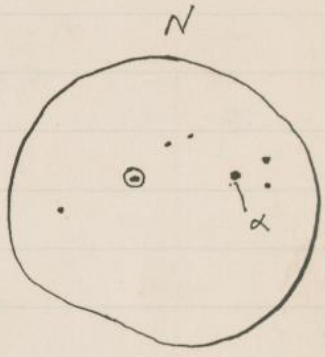
α 3.5 V

β 2 V

Normal brightness according to Mr Reed.



As seen in low power



High power

The above are rough maps for use until a list of Comparison Stars are picked and a new map made

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1899phae..proj...457C

Saturday June 3, 1899.

Crucis var.

10	V-O	α 4V V 2 β 3	16.2	0.44
12	44	V 1 δ	12.4	0.1
12	59	β 2V V3 η	20.8 16.0	.63

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1899phae.proj..457C

Wednesday July 12, 1899.

12 50 δ. Cygni $21^h\ 39^m$ $+43^\circ$

Var = l

V 3M

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1899phae.proj..457C

Wednesday July 26, 1899.

New photographic Var in Cygni
Var is D.M. 42. 3338
Comparison star = D.M 42.3315-

12 20 Comparison star 2 Var.

14 08 α 3 V
V . 2 β

α = D.M. 42° 3315-
β = D.M. ~~42° 3371~~
γ = D.M. 42° ~~3371~~ 3340.

(29)

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1899phae..proj...457C

Thursday July 27. 1899.

13 25 Var Star D.M. 42.3338

β 2√

Clouds

14 17 √ 1 β

α 3 √

More clouds.

14 54 √ 3 β

α 3 √

15 01 S.S. Cygni at normal brightness

The first comparison of D.M. 42.3338 was made with such difficulty owing to clouds that it may be wrong, but a hasty look between the clouds seemed to show β brighter than the var. : I 23233 was taken just about this time, and ought to show any faintness which may have occured.

No trouble from clouds for last comparison and var seems to be nearly same brightness as last night.

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1899phae.proj..457C

Friday July 28. 1899.

12 48 Var D. M. 42. 3338

α 3½ V

~~+ 2~~ γ 2V

V 1 β

10 - 18 $\gamma_V = \frac{3V}{\beta}$

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1899phae.proj..457C

Sunday July 30. 1899.

13 38 Var. D. M. 42. 3338.

V 2β
γ 2V
α 3V

Did not have a chart and am not sure the γ is the right star
α and β are O. K.

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1899phae.proj.457C

Monday July 31. 1899.

13 07 Var. D. M. 42. 3338

V 1 β
α 3 V

15 00 V 2 β
α 2 V

38

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1899phae.proj...457C

Tuesday August 1, 1899.

Var. D.M. 42. 3338
$19^h\ 21^m$ $+42.5$

14 07 V = β
V < γ
α < V

S.S. Cygni 21 39 +43.0

14 28 V 10

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1899phae.proj.:457C

Monday Aug 7. 1899.

14 U0 S. S. Cygni 21 39 +43.0

V 20

Var D.M. 42.3308

14 U2 α 5 V

γ 1 ½ β

γ 3 γ

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1899phae..proj..457C

Tuesday Aug 8. 1899.

14 33 S.S. Cygni 21 39 +43.0

0 2V
V 3P

(0 2V
V 3 p doubtful)

14 48 D.M. 42. 3338

V 2B
α 3.5 V

(~~β 2 V~~ V 2 β doubtful
α 4 V)

(44)

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1899phae.proj..457C

Tuesday August 15, 1899.

S. S. Cygni 21 39 +43.0

14 46 V 3 p
V 10

Var D.M. 42.3338

19 21 +42.5

14 03 β · 1V
~~V 4V~~ δ ~~V~~ 4V

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1899phae.proj..457C

Wednesday Aug. 16. 1899.

S. S. Cygni 21 39 +43.0
12 ↓8 Var. at normal brightness.

Var. D. M. 42. 3338
13 0↓ α 2 V
V. 3 β
V 3 γ
δ 2 V

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1899phae.proj..457C

Thursday August 17. 1899.

Var D.M. 42.3038

19 20.8 +42.1

11 15

α V
β 2V
γ 2V
ν 23

S.S. Cygni 21 39 +43.0

13 30

V 30
l 2V
N 2V

o Ceti 2 14 -3.4

13 50 δ Ceti 2V (N.E.)

S.S. Cygni 21 39 +42.1

15 27

V 30
l 2V
N 2V

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1899phae.proj..457C

Aug 18, 1899

S. S. Cygni

8:30 V V-O

P:40 L-V (Comparison Os)

D 2 R

Wrong star
identified

Aug 18. 1899

10 00 S. S. Cygni at normal brightness according to Mr Reed.

It is too faint for a good observation on account of Bright Moon and haze.

Posted to Here

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Tuesday Aug 22. 1899.

D M. 42. 3338

11 13

β 2V
Clouds.

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Saturday Aug 26. 1899

S. S. Cygni 21 39 +42.1

13 18 a 4.5 v

v 1 c

D. M. 42. 3338 19 20.8 +42.1

13 2 v β 2 v

γ 3 5

13 3 5 o Cet 3 14 -3.4

var 1 δ Cet

(N. E.)

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1899phae.proj..457C

Sunday August 27. 1899.

13 40 42.3338 19 20.8 +42.6-

β 3 v

v 2 χ

Too cloudy to observe S. S. Cygni

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1899phae.proj..457C

Thursday Aug. 31, 1899.

12 00 S. S. Cygni 21 39 +42.1—

Colon C 3V
V 2d

C 3V
V 2d
V 4e brown

12 20 42.3338 1920.8 +42.1—

Colon B 3V
V 3γ

β 3V
V 3γ brown

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1899phae.proj..457C

Friday Nov 10. 1899.

N. E. watch for Meteors.

Watch

11 27 At 11 27 ± 5s a bright meteor (1st mag.) was observed in north western sky between Cassiopeia & Cygnus. Length of path observed about 10°. Probably did not see Meteor when it first appeared. Color - Bluish-white.
A Leonid.
20 sec ± later a meteor of 3 or 4 mag. seen seen in south near meridian. Probably the last one was from Perseus. Did not watch longer at this time. For farther observing see Wm Crams record in E book # 12 page 19.

12 44 Began watch in Eastern sky near Radiant
12 49 Ended " . Only one meteor seen. About the 5th mag. but not a Leonid.

13 06 20 ± 3 sec. 2 mag meteor observed in northwestern sky. A Leonid.

12 39 } Watched Radiant -
44 } No meteors seen.

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Tuesday Nov. 10, 1899.

14 55 } No meteors seen.
15 00 }

C's watch 6 sec. slow of Bond 394.

15 37 (Approx.) 3 mag. meteor in Ursa Min. Probably from Perseus.

16 17 } No meteors seen.
16 22 }

17 27 } No meteors seen. Thin clouds over region.
17 32 }

No continued watch was kept of the sky, that is not recorded above, but in passing from one dome to another, I kept an eye on the Radiant, and no meteors were seen that are not recorded.

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Saturday Nov. 11, 1899.

Frequency of Meteors			Individual Meteors			
Time Begin	Time End.	No. of Meteors	Time	Class	Magn.	Color

Cloudy all night.

Rain and snow.

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Sunday Nov. 12. 1899

Frequency of Meteors			Individual Meteors			
Began E.S.T.	End	No. of meteors	Time	Class	Magn.	Color.
12 28	12 33	1				
14 49	14 54	0				
16 54	17 00	2				
17 24	17 29	0				

Only one of the above Meteors was a Leonid.

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Tuesday Nov. 14. 1899.

No.	R.	Cl.	M	Col.	Time	J.	Remarks
					14 45 –	}	No meteors observed although. Sirius + the Pole star were glimpsed once or twice, also was able for a few seconds to see the edge of moon. At time of ending it was entirely cloudy + thicker clouds seen west seem to be coming up.
					14 50		
					15 – 34	}	Clouds somewhat mottled. and one or two stars glimpsed (for a few seconds only) in zenith. Moon not visible. No meteors observed.
					36		
					16 – 01		Getting darker, moon probably set. Uniform clouds all over sky. No meteors, or stars visible.
					16 12	}	The sky is covered with a uniform (3s) cloud, except near Leo where is it a little thinner + first magn. stars are barely visible at times. Two meteors near
					16 16		

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Tuesday Nov 14. 1899.

No.	R.	d.	M	Col	Time	J	Remarks
							the region of the radiant suspected, although clouds made them appear so faint, that it is very difficult to say for a certainty that they were meteors. If they were ~~meteors~~ (I am rather inclined to think ~~they were~~ they were) they must have been as bright as Venus.) Impossible to note color &c. Otherwise they would not have shown through the clouds.
					16 07 09		Sky 3S 10 0. No meteors seen.
					17 36 38		Sky 4S 10 0 No meteors seen.
					17 05		Daylight too strong for farther observing — Sky cloudy.

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Friday Dec. 8. 1899.

No.	R. A.	M.	Col. Time	Remarks
Occultation of 51 Aquarii by Moon.			Visual Observation of Immersion of 51 Aquarii	6 inch west Equatorial.
			Immersion at	Cs watch $6^h\ 52^m\ 57^s$.
				15.2 slow
				$6\ 53\ 12.2$ by Bond 394

The error of observation does not exceed ±1 sec. It is probable that it occurred 2 or 3 tenth of a sec. later than recorded time.

B 394	Colegio watch
$6^h\ 58^m\ 00^s$	$6^h\ 57^m\ 45.0$
6 59 00	6 58 44.8
7 00 00	6 59 44.8

F 1327	Cs watch.
0 28 00	7 00 47.2
0 29 00	7 01 47.0

This occultation was photographically observed with the 11 inch telescope.

(Seeing good)

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Friday Dec. 8. 1899.

No.	R.	C.	M.	Col.	Time	✓	Remarks
							Emersion watched for, but lost on account of clouds.

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1899phae.proj..457C

Saturday Dec. 9th 1899

No.	R. A.	M.	Col	Time	Remarks

Although no regular watch was kept for meteors to night; a goodly number, (perhaps 10 or 12) were observed since midnight; and observer only looked at the sky occasionally when making cloud records for the various photographic instruments.

It seemed that there must be a shower from some radiant, otherwise I could not have noted so many in the few minutes that the sky was watched.

Farther Examination showed a predicted radiant for Dec 10th. at R. A. 7 22 dec. + 33.

Several of the meteors were as bright, or brighter than the 2nd. magn.

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Tuesday Dec 12, 1899.

No	R. A.	M.	Col	Time		Remarks

Dec. 10 and 11 cloudy so could not watch for Dec 10th Radiant, but many meteors were noticed to night, in fact they seem to be coming now (16:00 E.T.) at the rate of nearly one per. minute.

E.T.		
16	16	} 8 meteors noted.
16	27	

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1899phae.proj..457C

Monday Feb. 19. 1900

No.	R.	Cl.	M	Col	Time	I	Remarks
16	00				S.S. Cygni	21 39	+43.
					Too faint to estimate, even with high power. Moon, + seeing not very good.		

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Tuesday Feb. 20. 1900

No.	R.	Cl.	M Col.	Time	T	Remarks
16	42		S. S. Cygni	21 39	+43.0	

Var. invisible. Seeing poor owing to moon + haze.

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Friday Feb 23. 1900

No.	R.	Cl.	M	Col	Time	δ	Remarks
15 47		D. S.		Cygni	21 39	+43	
					Var = 0 approx		
							Haze.

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1899phae.proj..457C

Sunday Feb. 25. 1900

No.	R.	Cl.	M	Col.	Time	V	Remarks
					S. S. Cygni	21 39	+43.
16	31						
						Var. 20	

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1899phae.proj..457C

Monday Feby. 26. 1900

No.	R.	Cl.	M.	Cal	Time	J	Remarks
					S. S. Cygni	21 39	+43.0
16	√	0					
					0 is about one or two grades brighter than the var. although they are both so faint that it is impossible to get a good estimate		

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1899phae.proj..457C

Tuesday Feb 27, 1900.

No.	R.	Cl.	M	Col	Time	T	Remarks
16	40				S.S. Cygni	21 39	+43.
					O IV		

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1899phae.proj..457C

Saturday March 3. 1900.

14 26 S. S. Cygni 21 39 +43.

Var = 10

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1899phae.proj..457C

Wednesday March 7. 1900

SS Cygni 21 39 +43.

16 23

a 4v
v 3e

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1899phae.proj..457C

Thursday March 8. 1900

16 27 S. S. Cygni 21 39 +43.

a 3v
v 3c

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1899phae.proj..457C

Saturday March 10, 1900.

S. S. Cygni 21 39 +43.

16 03 a sV
V 3c

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Ledgered to this Date

Sunday March 11. 1900

S.S. Cygni 21 39 +43.

16 42 a 4v
v 3c

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1899phae.proj..457C

Monday March 12. 1900

16 13 S. S. Cygni 21 39 + 43.

V 3e

a √V

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1899phae.proj..457C

Wednesday March 14. 1900.

S. S. Cygni 21 39 +43.

L P.

17 00 C IV

(V about 2 or 3 e) twilight too strong to get a good comparison with ε, although it did not bother me any in comparing with c.

Sky somewhat cloudy, but seeing in region of var. fairly good at time of comparison

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1899phae.proj..457C

Friday March 16. 1900.

S. S. Cygni 21 39 +43.

16 00

~~f 2v~~
g 3v
v 2h

L. P.

Bright moonlight.

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1899phae.proj..457C

Saturday March 17. 1900

15 30 S. S. Cygni 21 39 +43.

g 4v
r 4l

L P.

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1899phae..proj...457C

Tuesday March 20. 1900.

17 00 S. S. Cygni 21 39 +43.

V = 0 L P.

Observation made with extreme difficulty owing to strong twilight

Could see l easily + var. was much fainter than l.

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1899phae.proj..457C

Friday April 13, 1900.

14	25	S. S. Cygni	21	39	+43.	L

var. is faint. Too faint for a good estimate in the strong moon light (Moon one day from full) It is easily fainter than 1. and probably about = 0.

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1899phae.proj..457C

Saturday April 14, 1900.

L.

16 00 S. S. Cygni 21 39 +43.0

var. invisible
l. seen

Full moon.

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1899phae.proj..457C

Sunday April 15. 1900.

			L	
14 00	S. S. Cygni	21 39	+43.	

var. still invisible.

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Friday Apr. 20, 1900

11 50 S. S. Cygni 21 39 +43. C

0 2 V

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Tuesday April 24. 1900

13 50 S. S. Cygni 21 39 +43. L

V 20.

Seeing excellent

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Wednesday April 25th. 1900.

13 00 S. S. Cygni 21 39 +43.

g 3V

V 3h

Seeing Good

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Thursday April 26. 1900.

S. S. Cygni 21h 39 +43.

13 15 V 3C

b 3V

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Friday April 27. 1900.

11 28 S. S. Cygni 21 39 +43.

a 5V
V 3C

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Saturday April 28. 1900.

13 18 S S Cygni 21 39 +43. L

v 3 c
b 3 v

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Sunday April 29, 1900.

S. S. Cygni 21 39 +43.0

C IV

V 32

13 2V

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Monday April 30, 1900.

S. S. Cygni 21 39 +43.

1J 0V

g 3V
g 2h

L

Ledgered, plotted and posted through this date.

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1899phae.proj..457C

Tuesday May 1, 1900

S.S. Cygni 21 ^{3}#9 +43.

14 08 h 3v

v 4K

L

~~Seeing good~~

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Saturday May 5. 1900.

S S Cygni 21 39 +43.

14 16

0 2V

V 2p

Lt.

Seeing good

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1899phae.proj..457C

Sunday June 24. 1900.

S. S. Cygni 21 39 +43.0

14 25 0 3r

r 2 h

Observations made with difficulty owing to clds being all most exactly in zenith.

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Monday June 21. 1900

S. S. Cygni 21 39 +43.

13" vf 0 = V L

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Tuesday June 26. 1900.

S. S. Cygni 21 39 +43.

10 50 V=0 12

Seeing very poor.

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1899phae.proj..457C

Wednesday June 27. 1900.

13 04

S. S. Cygni 21 39 +43.
0 1V
V 2h

L.

Seeing good.

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1899phae.proj..457C

Thursday June 28. 1900.

S. S Cygni 21-39 +43.

L.

11 45 Var. Still faint. It clouded over before there was time to get a good estimate.

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1899phae.proj..457C

Friday June 29. 1900.

S. S. Cygni 21 39 +43.

9. 30

~~V 1/2 c~~

~~b 4 b~~ Bad focus L.

V 2 d

C 1 V

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1899phae..proj..457C

Saturday June 30. 1900

13 20 · S.S. Cygni 21 39 +43.0

a 3v
v 3b

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1899phae.proj..457C

Posted to here.

Sunday July 1. 1900.

S. S. Cygni 21 39 +43.

12 10 a 2v

v 36

L

1899phae.proj..457C

Monday July 2. 1900.

S. S. Cygni 21 39 +43.

13 20

a 3 v

v 3 b

l

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1899phae.proj..457C

Friday July 6. 1900 -

13 -20 S.S. Cygni 21 39 +43.

a 4V Ledgwood
V 2b

Seeing poor and star nearly in zenith making observing very difficult.

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1899phae.proj..457C

Saturday July 7. 1900.

11 √2 S. S. Cygni 21 39 +43.

a 4 V Ledgered
V 1.5 b

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1899phae.proj..457C

Posted to here.

Sunday July 8. 1900.

10 26 S. S. Cygni 21 39 +43.

~~6~~ 1

Ledgered.

V 16.

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Tuesday July 10. 1900.

11 02 55

11 03 51.5

Occultation of Saturn observed in 8 inch photographic telescope

At 11 02 55 (Cs watch) the inside ring had all ready begun to desappear, and at- 11 03 51.5 ~~it~~ ~~it utterly disappeared~~ Saturn disappeared intirely.

Cs watch is 5 sec. fast of B394

E.T.

13 00 Attempted to observe S. S. Cygni with 6 inch, but could not see star, on account of clds. and strong moon light.

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1899phae.proj..457C

Posted.

Saturday July 14. 1900.

S.S Cygni 21 39 +43.

13 30 V = h

Ledgered.

Star nearly in zenith at time of estimate

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1899phae.proj..457C

Thursday Oct 11. 1900.

Suspected Algol Var. +42° 628

4in Bowditch Comet Seeker.

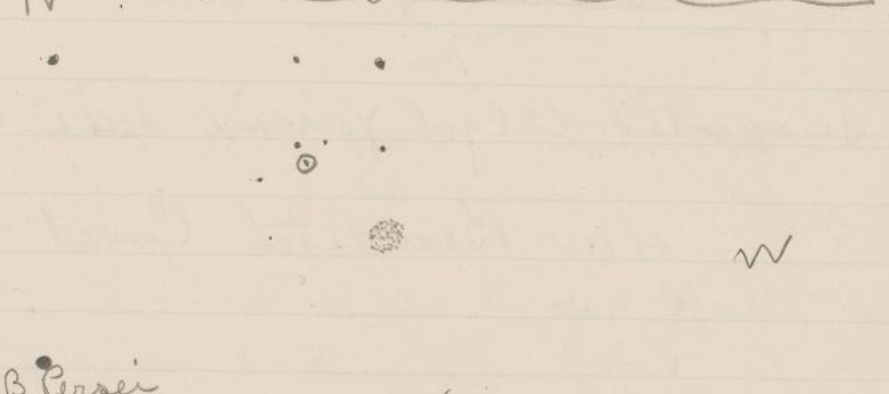
11 √-√ V = α
V 3 β

16 10 V = α
V 3 β

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1899phae.proj..457C

Monday Oct 15, 1900.



Observations with Opera Glass.

11	10	Var. at normal brightness
11	35	" " " "
13	14	" " " "
16	24	" " " "
17	00	Daylight - too strong to see var.

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1899phae.proj..457C

Tuesday Oct. 16. 1900.

13 14 +42.62 is Normal brightness

14 56 " " "

15 53 " " "

16 49 " " "

Opera Glass

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1899phae.proj..457C

Wednesday Oct 17, 1900

Opera Glass.

Var. +42.628

10 50 Var. at normal brightness.

13 24 " " " " hazy.

15 45 " " " " clear

15 45 Mars = β Geminorum ✓

16 57 Dis. Var. +42.628 at normal brightness.

Very light frost to night -
The first frost this season

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1899phae.proj..457C

Thursday Oct. 18. 1900.

Opera Glass

Sus. Var. +x2.628

13 12 Var. at normal brightness

14 50 " " " "

16 28 " " " "

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1899phae.proj..457C

Friday Oct. 19. 1900.

Opera Glass
Dus. Var. +42.628

16 15 Var at normal brightness.

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1899phae.proj..457C

Saturday Oct 20. 1900

Opera Glass

Sus. Var 4 Tr. 628.

11 25 Var. at normal brightness.

14 10 " " " "

16 02 " " " "

16 ou Mars = β Gem.

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1899phae.proj..457C

Sunday Oct 21, 1900.

14 20 +42.628 normal

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1899phae.proj..457C

Monday Oct 22, 1900.

15 20 +42.628 normal

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1899phae.proj..457C

Wednesday Oct 24, 1900

+42.628

11 50 Normal. } Opera Glass.
12 18 Normal. }

{ S. S. Cygni 21 39 +43.0
not identified }

14 35 +42.628 normal.

15 52 " "

17 03 " "

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1899phae.proj..457C

Friday Nov. 2. 1900.

13 04 +42.628 Normal.

15 33 +42.628 Normal.

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1899phae.proj..457C

Saturday Nov 3. 1900

12 11 +42.628 Normal - Very difficult to see owing to strong moon light.

15 42 +42.628 Normal.

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1899phae.proj...457C

Tuesday Nov 13. 1900.

A watch kept for Leonids to night but sky too cloudy to do much. The clouds cracked up a little at 13:40 and a watch was kept till it became too thick to see stars.

C's Watch

13 40 Began watching

13:45 Meteor not a Leonid. 2 mag. yellow duration 3^s. Pt. cloudy.

13:49 Meteor, Leonid 3 mag. duration 1^s seen through clds.

13 55 too cloudy to watch longer

14 30 Sky 45 10 O.
C's watch is 21 sec. slow.

15 55 A little break in clds. Began watching for meteors.

16 01 Ended No meteors seen - Cloudy.

16 35 All cloudy.

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1899phae.proj..457C

Saturday Dec 22. 1900

14 05 Mars is about ½ mag brighter than α Orionis

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1899phae.proj..457C

Friday Dec 28. 1900

Posted to here

1 2 2 Mars is about ½ mag. brighter than
α Orionis.

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1899phae.proj..457C

Posted

Tuesday Jan. 1, 1901

17 48 Mars 4 grades brighter than α Bootis

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1899phae.proj..457C

Posted.

Wednesday Jan 16. 1901

15 25 Mars 2/3 mag brighter than α Bootis.

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1899phae.proj..457C

Sunday Jan. 27. 1901.

16 45 Mars 9/10 mag brighter than α Bootis.

17 42 Attempted to observe S. S. Cygni but it is too cloudy near the horizon. Could not identify the Region.

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1899phae.proj..457C

Monday Jan 28. 1901

17 45T S. S. Cygni too faint to observe even with the high power eyepiece.
Seeing poor. Comp. Star o not plainly see. Can only say that S.S. is at least as faint as o.
Ld.

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1899phae.proj..457C

Posted to here

Friday Feb 1, 1901

18 00 S. S. Cygni 21 39 +43.

~~C 3V~~ Led.

V 3C

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1899phae..proj..457C

Lrd. Port.

Saturday Feb. 2. 1901.

15 30 Mars 8/10 mag. brighter than α Bootis.

17 25 S. S. Cygni 21 39 +43.

a 5V
V 2C

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1899phae.proj..457C

Posted.

Wednesday Feb 6. 1901.

16 55 S. S. Cygni 21 39 +43.

V 3c Led. Plott.
a 3 V

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1899phae.proj..457C

Posted

Thursday Feby. 7. 1901

Plotted.

17 23 S. S. Cygni −1 39 +43.

a 3 v
v 3 c

17 10 Mars 9/10 mag. brighter than α Bootis

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1899phae.proj..457C

Post Ed.

Friday Feby 8 1901

17 25 S. S. Cygni 21 39 +43.

a 4V
V 3C

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1899phae.proj..457C

Sunday Feb. 10. 1901

Led
Post.

17 13 S. S. Cygni 21 39 +43.

V 1c

Mars 1 mag. brighter than α Bootes.

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1899phae.proj..457C

Posted
Ledgered-

Thursday Feby 14, 1901.

14 05 Mars 1.1 mag > α Bootis.

17 46 S. S. Cygni 21 30 +43.

g 3V

This comparison was taken through passing clouds which bothered me so that the comparison with h was impossible.

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1899phae.proj..457C

Post-
Card
Plot.
17 05

Friday Feby 15, 1901.

S. S. Cygni 21 39 +43.0

l 1v
v 3m

No clouds, but seeing rather poor.

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1899phae.proj..457C

Posted
Ledgered

Tuesday Feby 19. 1901.

7 50 Sirius about 3 grades > Mars

14 00 Mars 1.2 mag > α Böotis.

17 08 S. S. Cygni 21 39 +43.

Var. invisible
0 also invisible

Seeing rather poor.

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1899phae.proj..457C

Tuesday Feby 26. 1901. L.P.

10 00 Andersons Ursa 4 grades > α Persei

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Ld. Park

Wednesday Feby 28. 1901.

8 50 Nova Persei 3 grades > α Persei

12 40 Mars 1 mag. > α Bootis.

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1899phae..proj..457C

Friday ~~Feb~~ March 1. 1901.

10 55- α β Persei 7 grades ⩾ Nova Persei
Nova Persei 7 3 " ⩾ Algol.
L & L

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1899phae.proj..457C

L.P.

Wednesday March 6. 1901.

13 30 Mars (mag) ∝ Bootes.

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1899phae.proj..457C

Sunday March 17. 1901. Led Post Plot.

12 30 Mars 0.8 > α Bootes. ✓

16 00 S.S. Cygni 21 39 +43°.
Too faint to estimate. Painter the ✓
O. Seeing rather poor.

16 10 R. Herculis 16 02 +18.6
Com. star C is ½ mag < com. star d.
∴ C
R⊙ d a
h. t.
ran 3d. Use above map as
there are several comp. stars on chart marked
a B c &c.
h 2 ✓
(Chart Red X.)

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Posted. Wednesday March 27. 1901.

L. P.

11 45 Mars 7 grades 7 & Booth.

Moon nearer Mars.

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1899phae..proj...457C

Friday April 5, 1901. Led Post

16 09 S.S. Cygni 21 39 +43
Var. invisible, Bright moon.

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1899phae.proj..457C

Thursday April 11. 1901.

L.P.

11 20 Mars 3 grades ⊽ . α Bootis

Obs. through thin clds.

Lobs observation ~~through clds~~ sky clear.

12 10 Mars 3 grades ⊽ α Bootis. ✓

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Friday April 12. 1901.

12 20 Mars 2grades ⩾ α Bootis.

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1899phae.proj..457C

Post.
Led.

Sunday April 28. 1901.

12 00 S. S. Cygni 21 39 +43°

Var invisible.

Swing fair. Bk. moon

1899phae.proj..457C

Wednesday May 1, 1901. Zd Plott

10 05 α Bootes 5 grades > Mars Post.

13 10 S. S. Cygni 21 39 +43.

var = 0 approx.

Bright moon. Could only see variable at times. and then only by indirect vision.

15 55 Nova Persei 3 grades brighter than V

Twilight very strong making comparison difficult.

Reject. Wrong Region.

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1899phae.proj..457C

Red. Plotts.

Friday May 3. 1901.

9 30 α Bootis 2 grades > Mars.

10 30 S. S. Cygni invisible in 6 inch.
Between 0 and 6 according to Prof Wendell.

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~~Saturday~~ May 5. 1901. (Sunday) Dated Posted

11 00 α Bootis 3 grades 7 Mars.

Mars rather low in west while α Bootis is on the meridian.

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1899phae.proj..457C

Posted. Monday May 6. 1901.

15 45 [Nova Persei
var 3 r
K 3 var.] Reject. Wrong Region.

Identification decidedly uncertain.
Taken through clds.

15 45 S. S Cygni 21 39 +43.
var at normal brightness.

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1899phae..proj..457C

Tuesday May 7. 1901 Pated

10 30 Mars 4 grades ~~X~~ ∠ Bootis Led
" 5 " 7 ∠ Virginis.

12 30 S S. Cygni 21 39 +43.
var 1 m (seeing not very good)

13 53 l 2 v (seeing fairly good)
v 1 M
Led

15 27 l 1 v

15 20 [Nova Persei
var. 2 v
Reject
Wrong region.]

Led

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1899phae.proj..457C

L.P.P. Wednesday May 8. 1901.

10 58 S. S. Cygni 21. 39 +43.0

V 2 @. H.R.C.

(V 1 C) W.W.W.

13 48

B 2 V

V 1 C

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1899phae..proj..457C

Sunday May 12. 1901

Led.
Post.

15 15 S. S. Cygni 21 39 +43.

v 2 c
t 2 v

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1899phae.proj..457C

Photo

Monday May 13. 1901

12 20 S. S. Cygni 21 39 +43.

a 4v
v 3c

15 13 Nova Persei

not Nova.

~~t 2v~~

Twighs rather strong, but identification correct.

Notice

11113

All Nova Persei observations previous to this date are wrongly identified as the Region was too low to see comparison stars.

The above observation however is correct.

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1899phae..proj..457C

Wednesday May 15, 1901

11 00 S S. Cygni 21 39 +43.0

V 2e
B IV

Led. Post. Plott.

15 00 Nova Persei

Could not see Nova with Opera glass.

Tried through 6 inch but am somewhat doubtful about identification as faint stars are not plotted on my chart.

Hoyt

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1899phae.proj..457C

Led. Post. [illegible]

Thursday May 16. 1901

10 J-J- S. S. Cygni 21 39 +43

V 2c
~~f~~ 2V

11 10. Mars 4 grades > α Virginis.

13 48 T. Andromedae 0 17 +26.5

Var. invisible even with high power.

14 16 T Aquarii 20 45- -5.5-

g 4V
V 4M

14 J-J- Nova Persei

not Nova

~~l 2V~~
~~V 2(30)~~

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1899phae..proj..457C

Friday May 17. 1901. Ld. Post. Plot.

13 12 S. S. Cygni 21 39 +43.

V 1C
B 3V

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1899phae.proj..457C

Ledg. Bot.

Tuesday May 21. 1901

11 43 S. S. Cygni 21 39 +43

q 3 v
v 3 h

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1899phae.proj..457C

Wednesday May 22. 1901.

Sed. Post.
Plotted.

11 00 S. S. Cygni. 21 39 +43.

v 3m.

Taken through thick clds.

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1899phae.proj..457C

Posted
Lodgered
Plotted

Thursday May 23. 1901

13 30 S. S. Cygni 21 30 +43.

l 3V
V 1M.

14 50 Nova Persei

not Nova

(30) 2 V
V 4(1+2)

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1899phae.proj...457C

Monday ~~May~~ June 3. 1901.

L P

11 40 S. S. Cygni 21 30 +43.

0 2 V
V 2 h

Bright moon but seeing exceptionally good.

C's Watch.

14 32 20 Disappeared. Occultation 21 Sagittarii

14 32 20
28 fast
14 31 52 = time of disappearence by Band 394.

15 00 Nova Persei

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1899phae.proj..457C

Tuesday June 4, 1901

Post Lad.
Plood.

11 00 S. S. Cygni 21 39 +43

Var between 0 and 6.

---

15 00 Nova Persei about 4 grades fainter than (30)

Nova identified by Professor Wendell

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Thursday June 6. 1901

14 25 Nova Persei

L=d. Plott.

Fd. 36 5 Nova Post.
Nova 5 # 2.

Chart x.

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1899phae.proj..457C

Posted.

Monday June 10. 1901.

8 45 Mars 2 α Virginis. LP.

11 45 S. S. Cygni 21 39 +43.0

O 2 V

V 2 P LP.

13 √0 Nova Persei

Fl. 36 5 Var

LP. V 5 (1 H) *

There Comparison stars are so far apart in magnitude that real fine Comparisons are impossible.

Seeing fine.

* This is undoubtedly a mistake in recording. I don't think that I have ever used H 1 as a comparison star. It should read

V 5 (H 2)

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1899phae..proj...457C

Tuesday June 11, 1901.

Led. Plot. Lost.

13 48 Nova Persei

V 4(H33)
(H45) 2 V

Chart #1.

14 07 Nova Persei
V 2H46
V √H42
H36 7 V

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1899phae.proj..457C

Wednesday June 12. 1901.

11 0 S Y Cygni 21 39 +43

0 2 V L.P.P.

V 2 P

13 50 Nova Persei

V = (H 47)

V 4 (H 33) L.P.P.

H. 30 5 V

Seeing rather poor.

14 35

H 36 4 V

V 5 (40)

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1899phae.proj..457C

Thursday June 13. 1901

12 25 S. S. Cygni 21 29 +43.

0 2 V
V 2 P

Ledgered
Plotted
Posted.

14 20 Nova Persei

H 36 4 V
V 5 (H 2)

Chart X.

Seeing poor. but fairly good at glances. Observation taken between clouds.

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1899phae.proj,.457C

Sunday June 16. 1901

Nova Persei

Ledgered
Plotted
Posted.

13 35 V 4(1+33)
H 36 5 V
Seeing excellent.

Chart 2

---

13 44 S.S. Cygni 21 39 +43

0 2V
V 2P

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1899phae.proj..457C

Monday June 17. 1901.

13 12

Nova Persei

Ledgered
Plotted
Posted

V 5 (H 33)

(H 36) 6 V

Seeing good

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Tuesday June 18. 1901.

Ledgered.
Plotted
Posted.

It clouded over at about 11:30 and remained cloudy till nearly daylight. but just before daylight while the twilight was pretty strong it cleared enough so that I could see the Nova

~~V 4 Fl 36~~
Fl 36 4V
V 5 1/2 is a

14 4√

fair estimate. but the twilight was too strong for real good work.

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1899phae.proj..457C

Tuesday June 25, 1901.

Ld. Plott.

11 35 S. S. Cygni 21 39 +43. Rated

0 1V
V 2p.

13 50 Nova Persei

H46 1V
V 4 H33

13 55 κ Persei

9 3 V
V 3 L

14 00 Flamsteed 36 Persei

l #4 V
V 4 Fl 30

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Wednesday June 26. 1901.

Post. Led. Post.

13 55 Nova Persei
(H 47) 3 V
V 5 (H 33)

14 00 K Persei.
V 3 L
S 4 V

Hagen Chart #1.

14 05 Fl 36. Persei
L 5 V
V 4 30

Chart X

14 28 S.S. Cygni
O 2 V
V 2 P

Observation made with difficulty owing to star being nearly in zenith.

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1899phae.proj..457C

Thursday June 27. 1901

Lead Obst. Post

14 00 Nova Persei

A hasty observation makes it the same as last night L. E.

V 5 (1433)

It is low and in the haze.

15 00 Clouded over, so I could not get a better Estimate.

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L.P.P. Friday June 28. 1901.

13 50 Nova Persei
V 5 (H33)
(H47) 3 V

13 55 Flamsteed 36 Persei
l 4 V
V 5 (H30)

κ Persei
V 3 ψ
i 5 V

NOTE The above estimates with the exception of the last were made with difficulty owing the clds. and haze. The Nova was especially difficult, but the estimates were made with considerable care and on the whole, perhaps they are fairly satisfactory.

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1899phae.proj..457C

Sunday June 30, 1901.

L.P.P.

15 00 Owing to Clds I was unable to see the Nova till the ~~twil~~ twilight became too strong for observation I could see it however in the twilight and there is no apparent change since June 28. L.E. there is surely no change of over 2/10 of a mag. while it is probably safe to assume the mag. the Same as on that date.

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L.P.P.

Monday July 1. 1901.

13 45 ℵ Persei
V 2 L
8 6 V

13 54 Flamsteed 36 Persei
L 5V
V 4 H 30

14 00 Nova Persei
(H 46) 2 V

The Nova is very hard to see owing to bright moon.

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1899phae.proj..457C

Tuesday July 2, 1901.

14 17 Nova Persei
(H 45) 3 V
V 2 (H 46)
LP.

Seeing good – Stars rather faint owing to brighter moon.

14 23 K Persei.
V · 2 6
δ 5 V
LP.

14 31 Fl. 36 Persei
L 5 V
V 3 Fl 30
LP.

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1899phae.proj..457C

L.O.P. Wednesday July 3. 1901.

14 43 Nova Persei
(H45) 2 V
V 1 (H46)

14 45 Fl. 36 Persei
l 4 V
V ✱ 2 (Fl 30)

κ Persei
δ 5 V.
V 2 L

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1899phae.proj..457C

Wednesday July 10. 1901 LPP

12 40 S. S. Cygni ✓

V = ~~6~~ c ± 0.2 mag

It clouded over before I could get the telescope focused.

15 7 30 It began to clear just about daylight And I attempted to observe Nova Persei. ~~8~~ 30 and I could be seen easily but could not see the Nova owing to strong twilight.

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1899phae.proj..457C

L.P.P.

Friday July 12. 1901

12 10 S. S. Cygni 21 39 +43.

f = V

13 30 Nova Persei

V = 1.46.

13 33 Fl. 26. Persei

l 3V

V 2 Fl 30

13 36 K Persei

8 4V

V 3i

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Sunday July 14. 1901

L. P. P.

11 10 S. S. Cygni 21 39 +43.

V 1l
l 3V

12 56 Nova Persei

V 1 1h46
1h47 1V

12 57 K Persei

V 4L
δ 5V

12 59 Fl 36 Persei

l 3V
V 3 Fl 30

14 30 o Ceti. Mira Ceti.

δ 2V

1899phae.proj..457C

Monday July 15. 1901.

L.O.P.

12 55 Nova Persei

V 2 (H46)

(H45) 2 V

L

Chart x.

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Tuesday July 16, 1901. LPP

S. S. Cygni 21 39 +43.

11 10 l 3v

v 30 ✓

13 56 Nova Persei

v 1(1+47) ✓

Observed through passing cloud + haze.

Chart x.

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1899phae.proj..457C

Friday July 19. 1901.

LPP.

14 28 Nova Persei

V = H 46.

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1899phae.proj..4576

Sunday July 21. 1901.

14 45 Nova Persei about normal.
Too hazy for a good estimate.

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1899phae.proj.457C

Lee J. Plott Post.

Tuesday July 23. 1901.

14 20 Nova Persei ✓

H 47 2 V
V 2 H 46.

14 22 o Ceti ✓
δ Ceti 5 V

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1899phae..proj...457C

Thursday August 1. 1901.

14 58 (H46) 1 V ✓

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Friday August 2. 1901.

12 40 Nova Persei

(H46) 1 V

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Wednesday Aug. 7. 1901.

15 28 Nova Persei
(H 46) 1 v

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1901

Thursday · August 8. ~~1899~~

Nova Persei

11 24 H46 = V

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1899phae.proj..457C

Sunday · Aug. 11. 1901.

12 10 Nova Persei

(1+47) 1 v

v 1 (1+46)

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1899phae.proj..457C

Wednesday Aug 14. 1901.

1-30 Nova Persei ✓
(1901 46) 1 v

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1899phae.proj..457C

Friday Aug 16. 1901.

11 -20 Nova Persei

(H46) 1 r

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1899phae.proj..457C

Wednesday August 21, 1901.

9 00 S. S. Cygni 21 39 +43.

a 2v
b 1v
v 3c

v

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1899phae.proj..457C

Friday August 23. 1901.

15 55 S S. Cygni 21 39 +43.
a 4V
V 1C

16 00 Nova Persei
H46 3V
V 3-1

26 08
21 39
4 39

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1899phae.proj..457C

Tuesday August 27. 1901.

14 40 S. S. Cygni 21 39 +43. J

C ½ grade > V

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1899phae.proj...457C

Thursday Aug 29. 1901.

11 30 Nova Persei
H 46 2V
V = H 33

Full moon. Seeing diffic

14 40 S S. Cygni 21 39 +43 ✓
V = d

L. P. P. to here.

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1899phae.proj...457C

L.P.P.

Wednesday Sept. 4. 1901.

11 20 Nova Persei
H46 3V
V 1 H~~46~~ 33 ✓

Moon light.

13 26 S.S. Cygni
N 3V ✓
V 10

Sky apparently clear but seeing is very poor.

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1899phae.proj..457C

Thursday Sept 5. 1901.

10 40 Nova Persei

H 33 1 V ✓

V 1 H 40

Seeing not very good but no moon:

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1899phae.proj..457C

Friday Sept. 6. 1901.

12 15 Nova Persei

H46 = V

V = H33

Seeing fairly good.

14 16 S S Cygni 21 39 +43

o IV

v 1p

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1899phae.proj..457C

Sunday Sept 8., 1901.

11 15 Nova Persei

1h 42 3v

1h 33 1v

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1899phae.proj..457C

Wednesday Sept 11, 1901

16 00 Nova Persei approx. 6.2 mag.
Too hazy for good estimate.

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1899phae.proj..457c

Friday Sept. 13. 1901

1h 35 Nova Persei

✓ 1 1h 4m

✓ 2 1h 33

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1899phae.proj..457C

Thursday Sept 19. 1901.

11 35 Nova Persei

H 42 1 V

V 2 H 33

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1999phot.proj..4570

Friday Sept 20. 1901.

. Nova Persei

16 26

V 1 H 33

H 42 3 V

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1899phae.proj..4570

Sunday Sept 22. 1901.

11 50 Nova Persei

V 1 H 33
H 42 1 V

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1890phot..proj...457C

Monday Sept. 23 1901.

14 57 S. S. Cygni
Too faint to estimate. Fainter than 6.
Could not see 5.

16 30 Nova Persei
H 33 2 V
H 42 4 V

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1899phae.proj..457C

Tuesday Sept 24, 1901

1.6 30 Nova Persei

V 2 H 33

H 42 2 V

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1899PMoc..[10]..457C

Wednesday Sept 25, 1901

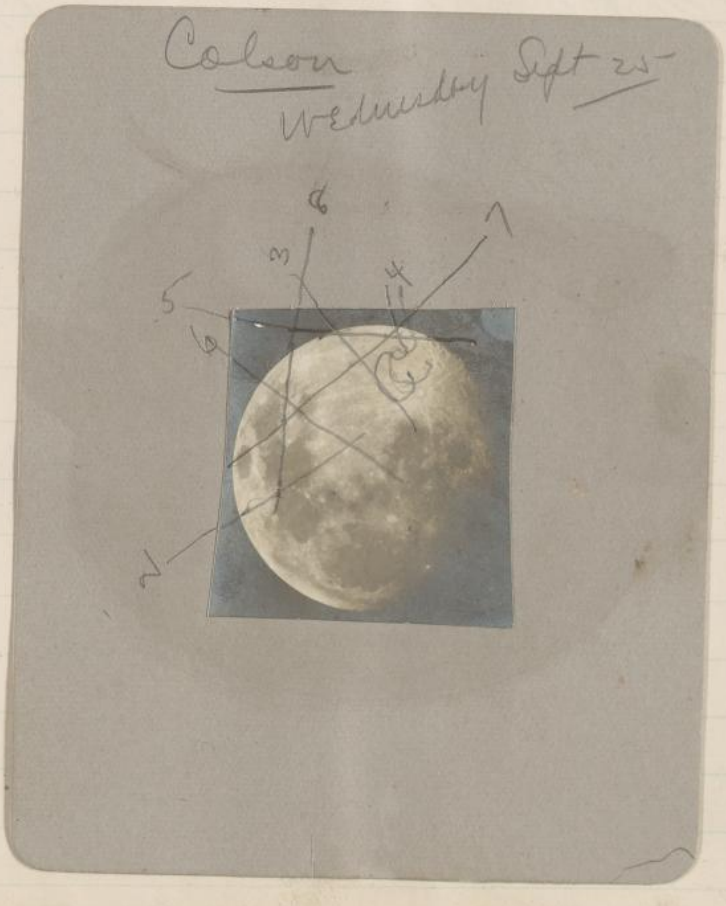
Observation to determine the height of the migrating birds.

Parallax between 6 in. and 11 in.

Telescopes. Mr King observing in 11 inch
The passing birds will be plotted on a photograph.

C's watch		
10 33 30	1	Not seen
14 30 30	2	The remainder of the obs. will be made with
31 15	3	Mr King in 15 inch dome.
30 40	4	
41 50	5	
14 7. 45 0	6	
54 35	7	
56 20	8	

Slight error in plot
The fine plot is nearer correct



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1899phae.proj..457C

Wednesday Sept 25. 1901

16 20 Nova Persei

H 33 3V

245 Exts on 100 nights from
Oct 1, 1900 to Oct 1, 1901.

L.C

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1899phae.proj..457C

Thursday Oct. 3. 1901.

13 30 S. S. Cygni 21 39 +43.0 ✓
Too faint to estimate. Fainter than 0.

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1899phae.proj..457C

Friday Oct 4. 1901.

12 50 Nova Persei
H 33 1 V
H 42 2 V

13 05 S. S. Cygni · 21 39 +43.
0 2 V
V 1 P

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1899phae..proj...457C

Sunday Oct 6. 1901

12 37 S. S. Cygni 21 39 +43.

0 2v ✓

N 2p

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1899phae.proj.2457C

Monday Oct 7. 1901.

11 20 S.S. Cygni 21 39 +43.

0 2V
V 2P

12 18 Nova Persei

H 3 3 2V
V 2 H 1

(H 1 is somewhat yellow)

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1899phae..proj..457C

Tuesday Oct. 8. 1901.

11 50 S. S. Cygni v

o 2v
v 2p

Seeing very poor, almost impossible to see var.

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1899phae.proj.457C

Wednesday Oct 9. 1901.

12 20 S. S. Cygni 21 31 +43.

Observation taken through Clouds.

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1899phae.proj...457C

The Tuesday Oct 15. 1901.

7 03 S.S Cygni 21 39 +43.

a 2v
B 1v
K 4c

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1899phae.proj..457C

Wednesday Oct 16. 1901.

13 09 S.S. Cygni 21 39 +43.
a 4V
V 2C

Ledgered to here.
Best.

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1899phae..proj..457C

Wednesday Oct 23. 1901.

S. S. Cygni

13 10 The star beside of f = 2gr > var.

Seeing poor.

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1899phae.proj..457C

Wednesday Nov 27. 1901.

8 25 S-S-Cygni 21 39 +40

0 2V

Bright Moon

Ledgered to here.

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1899phae..proj..457C

Monday Jan. 13, 1902

11 50 Nova Persei

H5 2V

H1 4V

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1899phae.proj..457C

Wednesday Jan. 15. 1902.

Schwabe Var 19 12 +19.4

17 30 b 2 v v

v 2 d

Region low and seeing not very good. Somewhat difficult to see d with opera glass.

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1899phae..proj...457C

Thursday Jan. 16. 1902,

14 20 Nova Persei
H 5 2 v

17 45 Schwabs Var 19 12 +19.4
b 2 v
v 2 d

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1899phae.proj..457C

Friday Jan. 17. 1902.

12 30± Nova Persei
1t √ 2V
H 1 4V

17 √2 Schwab's Var 19 12 +19.4
t 2V
V 3d

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1899phae..proj...457C

Sunday Jan 19. 1902

19 48* Schwab's Var 19 12 +19.4
b IV
V 3d

* Time given to ± 8 minutes.

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1899phae.proj..457C

Friday Jan 24. 1902.

17 47 Schwab. Var. 19 14 +19.0

b ~ v
v ~ d

Moon very bright making stars difficult to see

Attempted to observe Nova Persei but— Moon was too bright making it impossible to see the Nova.

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1899phae.proj..457C

Monday Jan. 27, 1902.

17 35 Schwobs Var. 19 14 +19.0

6 2 V
V 1 d

17 44 S. S. Cygni 21 39 +43.
Var. between 0 + p.
To faint to estimate in the strong moon light.

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1899phae.proj..457C

Tuesday Jan. 23. 1902.

12 00 Nova Persei
H 5 2 V
var. on limit of visibility
with field glass.
Moonlight.

17 52 Schwab's Var 19 1⅔ +19.0

6 = v
v 2 d

Seeing poor.

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1899phae..proj..457C

Thursday Jan. 31°. 1902.

Nova Persei

11 30 6 2 v

v 37

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1899phae.proj..457C

Tuesday

~~Friday~~ Feby 3. 1902.

13 32 Nova Persei

5 3 V

Could not see 7 with field glass.

16 51 Can not see Schwab's Var. with field glass.

Not enough stars on my chart to identify var. Shall ~~do~~ have to have a D.M. chart.

17 10 S Cygni 21 39 +43.

V 3e

a 5V

B 2V

17 34 Schwab's Var 19 14 +19.

By the side of ~~it~~ ~~g~~ there are two stars i.e a double? I am uncertain which is the var. Assuming the brighter one to be the var it is about 1/2 mag. fainter than comp. star d.

(Var. 1 N)

→ There is about one grade difference between the two stars of the double. The pair is not shown as a double on the D.M.

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1899phae.proj..457C

Tuesday Feb. 4. 1902.

16 35 Schwobs Var. 19 14 +19.0
b IV
V 3d (F.9.)

17 21 S. S. Cygni 21 39 +43
C ø = V

Note. Looked up Schwobs in 6 inch also to make sure that identification of last night was correct. All "O.K."

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1899phae.proj..457C

Thursday Feb. 6. 1902.

17 40 Schwobé Var. 19 14 +19.

6 IV
V 3d ✓

17 50 Can not see S.S. Cygni nor any stars fainter than a — Too hazy.

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1899phae.proj..457C

Friday Feb. 7. 1902.

17 18 Schwabs Var. 19 14 +19.

b 1 v
v 3 d

17 31 S.S. Cygni 21 39 +43

c 1 v
v 1 e

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ageophoto_proj...4570

Sunday Feb. 9. 1902

Schwabi Van 19 14 +19.

17 22 b 1V
v 2d

S.S.Cygni 21 39 +43

17 27 c 2V
f 1V

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1899pmre..proj...457c

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1899phae..proj..457C

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1899pmo..prcj...457C

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