

KG
11366
v.668

*Tabulation of Observations
of Variable Stars.*

Absorption of Shade Glass.

		Mean
HCO 135	0.86	
	0.86	0.87
	0.88	

HCO (230) 130	1.93	
	1.90	1.92
	1.93	

HCO 129	1.70	
	1.70	1.70
	1.70	

The above are the results of 16 readings each, i.e.
~~each shade~~ 48 readings for each shade

September 19, 1903

Index.

1

<u>Design.</u>	<u>Page.</u>
NV +56.5° 146	4
R Pegasi	6
T Herculis	8
R Cygni	10
T Aquarii	12
S "	14
V Cygni	16
Var. Lacerta	18
SV +9° 4777	20
R Tauri	22
Cepeland's Nova	24
R Androm.	26
R Persei	28
R Cornae	30
R Lemm.	32
T Hydrae	34
T Virginis	36
V "	38
S Tauri	42
NVC 6644	40
Var. Perseus	~~42~~ 44
Andersen's NV	46.
T Lemm.	48.
R Serpentes	50.
SD-21° 4483	52.
DM+19° 3706	54.
" "+19° 3708	56.
" "+19° 3751	58.
X Cygni	62

Nova Aurigae 60
 Sursp Var. -7° 2873 64
 +27.2° RA 9^h 0^m 66

Index. cont.

100- Comp. Stars used in Visual Work.

New Var. disc. by Photography.
 R.A. ^{to} 1 ^{ms} 46 Dec +56.3

Obj.	Book & Page.	Date.	Comparisons.	
Star C	57:77	1891. Jan. 16,		diag.
" "	57:91	" Feb. 2,	Var = C	diag. & rem.
" "	" 96	" " 10	Var? = C	"
" "	" 118	" " 18	" " "	"
" "	" 123	" " 19	" "	"

R. Pegasi.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

I Herculis.

Design.	Book & Page.	Date.	Comparison.
	591 / 30	1891. Sept. 25.	Selection of Comp stars, Diag & Rem.

R Cygni.

Design	Book & Page	Date	Comparison
Star X	59:131	1891. Sept. 20.	Selection of Comp. stars. Diag. & Rem.
	67:201	1893. Nov. 18.	R = X Diag.

S Aquarii

Design.	Book & Page	Date	Comparison.
_____	59:191	1891. Oct. 9.	o 2 $\frac{1}{2}$ 2 p m Selection of comp. stars. Diag & Rem.

S Aquarii

Design	Book & Page	Date	Comparison
—	60 : 41	1891. Oct 24.	$\underline{\epsilon} 3.5 S, S 2 f$ Selection of comp stars. Diag. & Rem.
—	" : 47	" " 28	$\underline{\delta} S, S 2 \underline{\epsilon}$ Reexam " " " " " "

Vignoli.

Var Lacerta.

Design.	Book & Page.	Date.	Comparison.
—	60:120	1891. Nov. 19.	Selection of comp stars for Var. Diag.

R Lauri.

Design	Book & Page	Date	Comparison
—	60:217	1891. Dec. 28.	Selection of comp stars for R. Diag.
—	64:171	1893. Mar. 6.	" " " " " "
—	" 174	" " 7	R _{3.5} X, (Ed 138) Diag.
—	" 181	" " 13	a1R, R _{2.5} b "
—	" "	" " "	μ _{1.5} R, R _{2.0} q " & Rem.
Star X	68:60	" Dec 7	X = <u>R</u> " "

Capeland's Nova

Design	Book & Page	Date	Comparison	
—	61: 49	1892 Feb 4		Diag + Rn
—	" 52	" " "	Nova = X Aniger	" "
—	" 55	" " 5	* " " "	" "
—	" 168	" ^{mon} March 25	t 3.5 Nova Nova 12	" "
—	" 214	" Apr 9	Nova 2.5 (Star 11)	" "
—	62: 7	" " 13	[Star 10] 5 Nova Nova 2 (Star 14)	Also diag.

R Andromedae.

TR Carinae.

Design.	Book & Page.	Date.	Comparison.	
—	64:180	1893. Mar 13	$R = a$	Diag.
—	" 190	" " 16	$X 2 \frac{1}{2} R$	" & Rem.
Star b	69:179-	1894. " 26.	$Var = b$	" "

R Geminorum

Design.	Book & Page	Date	Comparison	
—	64:182	1893. Mar. 13.	$\mu 1.5 R, R 2.59$	Diag & Rem.
—	" 191	" " 16	$\mu 2 R, R 2.59$	" "
Star a	69:204	1894. Apr. 3.	$R = a$	Diag.

1903phae

γ Hydrae.

Design	Book + Page	Date	Comparison
Star α	64:188	1893, Mar 15,	ϵ 0.15 <u>I</u> , <u>I</u> 2.5 μ Diag. & Rem.

I Virginis

Design	Book + Page	Date	Comparison
—	64: 198	1893. Mar. 20.	9/4 <u>J</u> , <u>J</u> 1/2
Star a	69: 177	1894. Mar. 26.	Var = a
			" "

V Virginis.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

N. & C. 6644.

Design.	Book & Page	Date.	Comparison	
—	67: 32	1893. Oct. 5.	—	Diag.

Sauri.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Variable in Perseus.

Andersen's N.V. in Andromeda.

α Geminaum.

Design.	Book & Page	Date	Comparison	
Star α	69: 206	1894 Apr. 3.	$J = \frac{1}{2} m_{\gamma} < \alpha$	Diag. & Rem.
" "	70: 81	" May 21.	$J = \underline{\alpha}$	" "

R Serpentis

Design	Book + Page	Date	Comparison
Star R	70: 25-	1894. Apr 25.	R = <u>b</u> diag & Rem.
" "	70: 79	" May 21.	R = <u>a</u> " "

2008-15-92

S. ④ - 21° 44' 83.

$2M + 19^{\circ} 37.06$

Book & Page	Date	Comparison
70: 61	194 May 10.	<u>2</u> (3706)/(3706) 2.5 lb Diag & Rem.

DM +19° 3708

Design.	Book & Page.	Date.	Comparison.
<u> </u>	70:62	1894 May 10.	<u>a</u> 2.5(3708/3708) 2.5 <u>b</u> Digg & Run.

$\odot M + 19^{\circ} 37.51$

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

Nova Aurigae.

X Cygni.

Orig	Book & Page	Date	Comparisons
—	72:202	1894 Dec 18.	Selection of comp stars Diag.

Susp. Var. $-7^{\circ}2873$.

Dec +27.2° RA 9^h 0^m

Surf.	Book & Page	Date	Comparison	Diag & Rem
	74:187	1895, May 7.	g 3 var	
"	" "	" " "	var 4 f	" "
"	" "	" " "	f 3 c	" "
"	" "	" " "	a 1.5 b	" "
"	" "	" " "	d 8 var	" "
"	" "	" " "	h 3 b	" "
"	" "	" " "	var 1 h	" "

Comparison Stars used in visual work
reduced during 1203 by L. Campbell.

Copy of Data given to Prof E.C.P. for obtaining
magns. of same ✓

✓ R Persei	✓ U Cassiof.	✓ R Orionis	✓ V Gemini.	✓ T Gemini.	✓ V Leonis
Hag. 4	Hag. 3	Hag. 3	Hag. 6	Hag. 3	Hag. 3
5	5	6	7	4	5
8	7	7	14	7	7
9	10	14	20	20	8
17	22	18	40	10	9
21	25	19	47	15	12
23	32		58	17	13
25	36	✓ S Orionis	✓ U Can. Min.	21	15
26	40	Hag. 2	Hag. 3	20	19
36	55	3	5	✓	✓
40		4	8	U Puppis	S Leonis
		13	12	Hag. 2	Hag. 7
✓ W Tauri	✓ T Camelop.	17	17	6	11
Hag. 8	Hag. 2	26	34	8	13
9	4	33	55	10	16
11	5		69	16	22
13	7	✓ S Camelop	✓	20	✓
✓	11	Hag. 1	S Gemini.	30	V Libras
Uarietis		2	Hag. 9	37	Hag. 8
Hag. 2	✓ V Tauri	4	13	45	12
3	Hag. 5	5	15	✓	13
5	10	6	19	U Cancri	20
9	13	10	20	Hag. 6	Z Libras
	17	17	37	8	Hag. 5
			40	9	12
				12	14
				18	
				22	

✓ U Bootis	✓ R Serpantis	✓ R Aquilae	✓ Z Cygni	✓ R Lacertae	✓ X Librae
Hag. 5	Hag. 3	Hag. 1	Hag. 2	Hag. 6	Hag. 17
6	4	4	3	7	19
9	5	5	4	9	24
13	7	6	5	12	27
15	8	8	6	23	
✓ V Coronae	9	10	19	26	
Hag. 3	10	13	28	30	U Arietis
4	13	16	45	41	a +15.430
5	15	23	48	56	b +15.447
7	17		~~47~~		c +13.496
8	19		U Canis	T Delphini	d +15.446
9	✓ X Scorpii	✓ T Sagittarii	Hag. 1	Hag. 10	e +14.518
13	Hag. 10	Hag. 4	2	11	f +15.442
14	13	5	3	20	g +14.513
15	18	7	4	21	
17	19	16	5	33	✓ R Persei
19	21	19	8		a +35.703
✓ R R Librae	✓ T Ophiuchi	35	16		
Hag. 1	Hag. 3	39	18	U Librae	T Camelopard.
4	6		24	Hag. 5	a +66.335
5	7		25	7	b +65.409
13	10		31	10	c +66.336
25			39	14	g +64.467
41				22	
				29	

✓	✓	✓	✓	✓	✓
<i>Camelopardalis</i>	<i>R Cassiopeiae</i>	<i>R Serpentis</i>	<i>V Herculis</i>	<i>V Aquilae</i>	<i>R Sagittae</i>
a +61.600	a +9.1539	b +17.2906	f +35.2889	d -6.5054	a +16.4192
b +63.436	c +10.1416	c +16.2840	g 16 53.2 +35.25	e -4.4663	b +16.4203
c +62.582	e +10.1429	d +17.2926	h 16 52.9 +35.18	f -5.4848	c +16.4200
d +63.426	g +10.1432	h +16.2834	✓	g -6.5005	d 20 8.5 +16.15
e +63.451	h +10.1427	k +16.2835	20 V Sagittarii	h -5.4830	e 20 8.8 +16.12
f +62.581	k +10.1433	n +15.2926	a -18.4982	✓	f +16.4191
g +61.604	m 7 0.1 +10.14	o +15.2916	b -18.4994	<i>R Aquilae</i>	✓
✓	n 7 0.2 +10.16	✓	c -18.4986	a +9.4081	<i>RW Cygni</i>
<i>V Monocerotis</i>	<i>V Ophiuchi</i>	d -19.5059	d -19.5053	b +6.3989	a +39.4210
a -1.1242	<i>R Crateris</i>	a -11.4129	e +19.5053	d +9.3979	b +39.4181
b -0.1287	a -16.3174	b -12.4546	✓	e +7.4002	c +39.4206
c -1.1231	b -17.3265	c -12.4543	<i>X Ophiuchi</i>	f +7.3987	d +39.4197
d -1.1188	✓	d -11.4135	a +8.3797	g +8.3906	e +39.4220
e -1.1198	<i>S Cassiopeiae</i>	e -11.4154	b +8.3791	✓	f +39.4209
f -1.1201	a +37.2380	✓	c +8.3799	<i>T Sagittae</i>	✓
g -1.1215	b +38.2415	<i>T Ophiuchi</i>	d +9.3798	a +18.4037	<i>S Delphini</i>
h -1.1212	✓	a -15.4349	e +9.3791	b +18.4040	a +16.4350
k -2.1580	<i>V Bootis</i>	✓	f +9.3794	c +17.3934	b +17.4386
l -2.1574	a +40.2785	<i>B Draconis</i>	g +8.3808	d +17.3938	c +16.4349
m 55 6 157 -2	b +39.2778	a +55.1878	h +9.3799	e +17.3937	d 20 8.2 +16.13
n 55 6 156 -2	c +40.2792	b +55.1879	✓	f +17.3936	e 20 8.3 +16.14
✓	d +39.2774	c +55.1873	<i>T Aquilae</i>	✓	f 20 8.4 +16.15
✓	e +38.2560	d +54.1832	a +8.3837	<i>S Vulpec.</i>	g 20 8.5 +16.16
✓	✓	e +55.1864	b +8.3834	b +27.3513	h 20 8.6 +16.17
<i>X Bootis</i>	f +54.1828	c +8.3824	c +27.3532	✓	✓
a +16.2647	g +54.1829	d 16 37.0 +8.40	d +26.3665	✓	✓
b +17.2734	✓	✓	e +26.3675	✓	✓
c +16.2641	✓	✓	✓	✓	✓

✓ X Cygni	✓ R U Cygni	✓ W Cephei	✓ α Orionis	✓ δ Delphini
a +35.4282	a +52.3003	l +58.2465	a +45.1077	Hag. 5
b +34.4127	b +53.2680	m +57.2562	b -8.1063	7
c +34.4111	c +53.2689		c +5.1739	8
d +34.4114	d +53.2694	V Ceti	d +16.629	17
✓ 3.1902 Mon.	e +54.2586	α 23 50.6 -9 38	✓	26
c +5.1448	f +54.2585	b 23 50.4 -9 37	U Sagittae	30
d +6.1405	g +53.2683	c 23 49.5 -9 46	a +19.4010	35
e +6.1432	h +53.2687	d -9.6291	b +19.3956	50
f +6.1437	k +53.2674	e -9.6292	c +19.4009	V Ceti
g +6.1443	l +53.2678	f -9.6293	d +18.4043	Hag. 4
h +6.1459	✓	g -9.6286	e +18.4014	7
✓ H.1902 Jan.	RV Cygni		f +18.4055	8
a +20.1885	k +37.4404	S Aquilae	g +19.3976	16
b +20.1863	l +37.4434	a +15.4070	h +19.3981	19
c +20.1871	m +37.4405	b +15.4079	k +19.3978	21
✓ 5902 Y Her.	n +36.4662	c +15.4076	l +18.4039	
R R Cygni	✓	e 20.450 +15 17	m +18.4030	
f +44.3582	f +6.3229	f 20.450 +15 19	n +19.3974	
m +44.3569	h +6.3244	g 20.56 +15 7	o +19.3977	
n +44.3570	✓	✓		
U Delphini	g Hercules	δ Herculis		
a +17.4382	a +46.2142	a +21.2934		
b +17.4431	b +49.2531	b +4.3489		
c +16.4363	c +37.2700	c +25.3221		
	d +40.3005	d +9.3298		
		e +39.3029		

1992phaseproj.1972.