1927phae.proj..663c

12"

Polar

March 1927

F

Oct 27

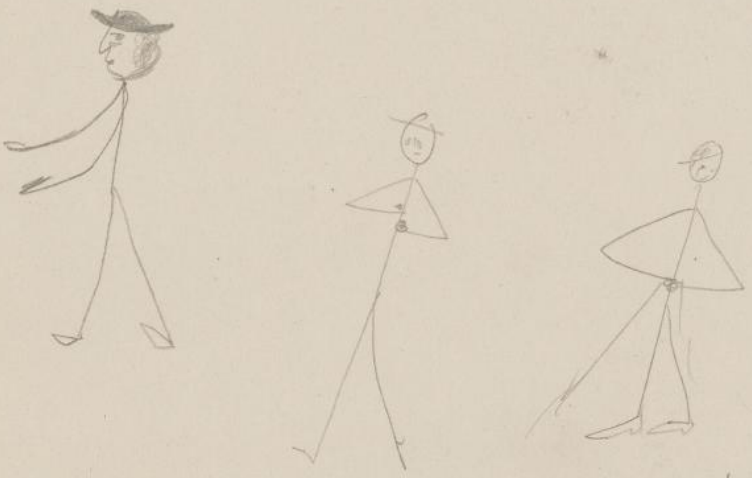
John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

KG 11365.662

1927phae.proj..663C

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

1927phae.proj..663c



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

1927phae.proj..663C

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

1927phae..proj..663C

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

1927phae.proj..663C

KG 113356.662

HARVARD
UNIVERSITY
LIBRARY
JUL 2 1956

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

1927phae.proj..663C

Wednesday March 9 - 1927

L C bs — Continued from previous book L C rc

VII

E.S.T. (Noon) — Pulpits — 072820

~~8 16 —~~	64.1		
8 17.20	2432		
	3083	65.1	
	648	65.8	
	1306	130.9	096
	2380		
	3175	795	+070
	596	779	
	1375	1574	+043
	B.		Mean = +059
	3207	849	
	4056	839	
	1465	1688	+021
	2304		
	3326		+048
	4002	676	
	1492	736	
8-20 45	2228	141.2	075

13-19-02

~~4949.555~~ +3

13-22-02

4949.557

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

1927phae.proj..663C

2

March 9 - 1927

	B			VII
8 - 26'00	3275			
	4037	762		
	1516	674		
	2190	143.6	+070	
	3214			
	4040	823	+051	
	1424	809		
	2233	163.2	+032	
	A		Mean +070	
	568			
	1308	740		
	2426	688		
	3114	1428	+073	
	663		590	
	1308	645		
	2432	612		
8 - 29 50	3044	1257	107	

13-27-55

~~4949.561~~

+3

13-30-55

4949.563

E

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

1927phae.proj..663C

March 9 - 1927 -

VIII

a

8-3820

61.8		
1312	694	
2422	662	
3084	1356	+086

62.1		
1376	655	+075
2348	810	
3158	1465	064

B.

mean = 072

1508		
2230	722	
3208	890	
4098	1612	036

1566		
2152	586	+68
3304	780	
4004	1286	+101

8.42

13-40-15

~~4949.569~~

+3

13-43-15

4949.572

C

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

1927phae.proj..663C

March 9 - 1927

B

08-46:00

1504		
2188	684	
3300	702	
4002	1386	+080

1476		
2231	755	056
3267	771	
4038	1626	033

Mean = 069

A

672		
1344	672	
2408	700	
3108	1372	083

658		
1372	714	082
2434	664	
3098	1378	082

08-51-45

IX

13-48-52

~~4949.576~~

+3

13-51-52

4949.578

C

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

1927phae.proj..663C

March 9 - 1927

	A			X
9 - 030	2414			
	3116	702		
	656	666		
	1302	1368	+084	
	2438			
	3084	646	+090	
	643	662		
	1305	1308	096	
	B.		Mean = .065	
	3226			
	4054	828		
	1466	814		
	2280	1642	+030	
	3258			
	4080	822	40	
	1532	712		
9 04 30	2244	1534	051	

14 - 02 - 15
+ 3
14 - 05 - 15
~~4949.585~~
4949.587

C

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

1927phae.proj..663C

6

Mar 9 /27

B

9 1200	3266		
	4088	822	
	1524	680	
	2204	1502	+0.57
	3258		
	4120	862	040
	1444	810	
	2254	1672	024

A

Mean = 0.64

	613		
	1333	720	
	2426	662	
	3088	1382	+081
	66.6		
	1318	652	689
	2444	650	
9-1600	3094	1302	097

XI

14 - 14 - 00
+3
14 - 17 - 00
~~4949.593~~
4949.595

Watch used =
3m slow at 9 28 h

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

1927phae.proj..663C

Friday March 11 – 1927 –

12' Polar.

L.C. hrs. — Available. — L.C. sec.

E.S.T. Noon — Miss Woods' – 7.2291 — 075'407 — I.

Sid = — Vardes.

7 – 18 30

R		
3186		
4063	875	
1352	884	
2236	175.9	–0,08
3240		
4042	802	026
1437	761	
2198	156.3	045
Q –		Mean = – 037
517		
1378	851	
2366	737	
3103	158.8	–040
550		
1304	754	–048
2344	754	
3098	150.8	–056

7 – 22 10

12 20 20

4957.514

C

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

1927phae.proj..663C

8

March 11 – 1927

	a			II
7-27 30	552			
	1386	884		
	2268	828		
	3196	1712	-0.17	
	552.5			
	1386	831	+024	
	2358	800		
	3158	1631	-032	
	B.		Mean -023	
	1464			
	2244	780		
	3224	806		
	4030	1586	-041	
	1394			
	2305	911	022	
	3186	880		
7 31 40	4066	1791	-002	
12 29 35				
4957.524				

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

1927phae.proj..663C

March 11 - 1927

	B			III
74800	1364			
	2255	891		
	3212	884		
	4096	1775	-005	
	1498			
	2218	720	-022	
	3228	774		
	4002	1594	-039	
	-9-		Mean = -026	
	2352			
	3112	760		
	505	833		
	1338	1593	-039	
	2268		030	
	3143	875		
	556	819		
7-5225	1315	1694	025	
12 5012				
4957.535				

Observations very difficult on account of light cloud & haze. E

1927phae.proj..663C

March - 11 - 1927

	a			IV
8 - 18 - 10	2292			
	3142	850		
	588	886		
	1404	1736	-012	
	2306			
	3220	914	-012	
	528	824		
	1352	1738	-012	
	B.		mean = -020	
	3215			
	4015	800		
	1455	771		
	2226	1771	005	
	3266			
	4022	756	028	
	1433	770		
	2203	1526	052	

8 22 20

13 20 15

4951.536

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

1927phae.proj..663C

March - 11 - 1927 -

	B-			V
893 32	3252			
	4033	781		
	1394	810		
	2204	1591	040	
	3305			
	4025	720	050	
	1438	770		
	2208	1490	059	
	-A-		Mean - 041	
	522	824		
	1346	728		
	2288	1552	047	
	3116			
	5701			
	1840	840	032	
	2306	874		
8-37 15	3180	1714	016	
13 35 22				
L595 1.476				

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

1927phae.proj..663C

March 11 - 1927

	a		VI
8-47 45	52 2	Stars have disappeared	
	136 2	in field of view	
	2348	840	
	3148	800	
		1640	030
	506		
	1395	889	018
	2265	879	
	3144	1768	006
	~~A~~ B		Mean = -034
	1468		
	2268	800	
	3235	823	
	4058	1623	034
	1450		
	2184	734	050
	3238	780	
8 51. 30	4018	1514	055
13 49 30			
49s 1.576			

C

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

1927phae.proj..663C

March-11-1927

	18.		
9 01 00	1452		
	2214	762	
	3275	725	
	4000	1487	-060
	1492		-064
	2198	706	
	3233	747	
	3980	1453	-067
	A		Mean = -048
	2380		
	3088	708	
	482	875	
	1357	1583	041
	2327		
	3143	816	032
	508	860	
9-0530	1368	1676	024
1403 15			
4951525			

Too cloudy for further observations.

9-30

E

1927phae.proj..663C

Tues Mar 1st 1927

L C Obs FTC Rec

E.S.T. (Noon)	07h 00m	Miss Woods Var	Phot I
8-9-25	Sad B	Var dis.	
	3214		
	4056	842	
	1433	790	
	2223	1632	-032
	3232		
	4018	786	
	1437	796	
	2233	1582	-037
		↓042	
	Sad a-		
	522		mean = -039
	1308	786	~~042~~
	2332	811	
	3143	1597	-039
	522		
	1323	801	-041
	2343	773	
8 13 50	3116	1574	043
13 11 38			
49 53 58			

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

1927phae.proj..663C

March 15 - 1927

II

Ded A-

8:16:18

498		
1368	870	
2320	788	
3108	165.8	- 0.27

.562		
1316	754	-030
2286	871	
3157	1625	-033

Ded B.

Mean = - 044

1480		
2222	742	
3274	744	
4018	148.6	-0,60

1446		
2198	752	-059
3282	746	
4028	1498	-058

8 19-50

13 18-00

4957.53

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

1927phae.proj..663C

March 15-1927

	2nd B		
~~8-32 00~~	~~1460~~		
8-32 50	3151		
	3980	829	
	1336	862	
	2198	1691	−0.20
	2088		
	3998	910	−006
	1275	927	
	2902	1837	
		1763	+007
	2nd A.		Mean = −040
	505		
	1242	737	
	2238	776	
	3008	1513	−055
	545		−074
	1212	667	
	2298	658	
8-36 53	2956	1325	−093
13 14 52			
4955.566			

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

1927phae.proj...663C

March 15 - 1927 -

IV

	Ded. a		
8-57-10	500		
	1242	742	
	2238	774	
	3012	151.6	-0.54
	50.4		-065
	1222	718	
	2308	690	
	2998	140.8	-076
	Ded B		Mean = -050
	1342		
	2146	804	
	3182	776	
	3978	158.0	-0.42
	1286		
	2188	902	-036
	3204	798	
8-55 40	4002	1700	019
13 53 25			
4955.58			

C

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

1927phae.proj..663C

March 15 - 1927

	Sud B		
9 - 04 00	132.2		
	2152	830	
	3171	803	
	3974	1633.	032
	1342		-022
	2133	791	
	3080	940	
	4020	1731	-013
	Sud 9		Mean = -032
	1198	comp stars	
	2238	1040	
	3038	974	
	4012	2014	-039
		15-9.6	
	47.4	var dis	
	1238	764	042
	2260	798	
9 - 08.00	3058	1562	-045
14 6 00			
~~4955.588~~	Quit observing to attend		
9 - 10	to a telegram.		
4955.587			

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

1927phae.proj...663C

Tuesday March 22 1927

L.C. hs E.T.C. sec.

EST Noon

7 46.10 SS Aurigae 060547 Est 13.2

7-47 od U. Gem 074922 Est 130

075407 Miss Wood's Variable. Phot. T.

V8. Variable dis.

7 55 25

	125,5		
	2196	941	
	3078	871	
	3949	181.2	
		178 F	+ 0.02
	~~V8~~		~~Mean~~ = —
	1294		
	2172	878	+ 0.05
	3044	964	
	4008	1842	
	a-	175.8	+ 0.08
	2209		Mean = −0.22
	3024	815	
	482	802	
	1284	1617	− 0.35
	2288		− 0.48
	3004	716	
	585	764	
7-59 40	1269	148.0	− 061

12-57-32

4962,540

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

1927phae.proj..663C

March 22 - 1927 -

a. II

8-13- Troubled by clouds.

8-22- Sky quite completely cloudy -

9-10 Sky practically covered ~~not clouds~~

b.

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

1927phae.proj..663C

Mon March 28 - 1927.

Look 12" Polar

E.S.T. Noon ~~Ω~~ ~~H~~

7 32 SS Aur. 060547) ext < 13.2

7 38 U Gem 070722 ext < 13.4

070540) Min Wood Var Phot T

B I

7 54	305.0			
	398.8	98.8		
	~~Ω~~	863		
	131.5	1961	Ω Cν	
	217.8	199		
	311.4			−0.09
	397.8	864		
	1333	842		
	217.5	1706	−0.18	
	Ω			Mean = −0.40
	54.8			
	1200	652		
	231.5	1203		
	303.8	1375	−0.92	
12-56-30	51.0			
☆4968.539	123.8	728		−0.72
	226.0	754		
7 59.0	301.4	1482	−0.61	C

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

1927phae.proj..663C

22

Mar. 28/27

A

0f 05.5	50.f		
	120.0	692	
	230.2	710	
	301.2	1402	− 077

	48.4		070
	127.f	794	
	232.2	6f0	
	300.2	1464	− 063

B

	129.0		Mean = − 0.52
	216.0	f10	
	316.4	f3f	
	400.2	1018	− 017

034

	138.7		
	214.2	755	
	316.6	7f6	
f 11.0	395.2	1541	− 050

13-08-02
4968.547

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

1927phae.proj..663C

Mar 28/1927

B

III

8 20.2	136.4		
	217.2	80.8	
	312.4	8 48	
	392.2	165.6	− 0.27
	314.6		
	406.0	914	− 0.16
	128.6	910	
	219.6	1824	
		1776	+ 005

A

~~1263~~

Mean = − 034

	237.2		
	3064	692	
	50.0	714	
	127.4	1466	− 064
	230.2		− 057
	305.8	756	
	46.2	782	
8 26.2	124.4	153.8	− 050

13-23-02

4968.558

C

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

1927phae.proj..663C

24

Mar 28/1927

A

08, 50.0

230.0
299.0
48.4
127.2

69.0
+28
(147.8 − 062

225.6
308.5
41.2
127.4

+29
+62
169.1 − 0.20

0.41

B

Mean − 0.24

300.5
309.8
133.3
216.4
312.5

993
+31
1824
1276 +0.05

+ −0.01

08, 52

398.0
136.4
220.0

+55
+36
1691 −0.20

08, 53.0

13-51-30
4968.578

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

1927phae.proj..663C

Wednesday April 6 - 1927

E.S.T. (Moon)

7+18 δ Aurigae 060547 Est 130

7-29 U Gem 074922 Est 130

Miss Wells variable 070407 Phot P.
Red-B. variable dis

7-2425

3061			
4012	951		
1314	941		
2255	1891		
	1709	+ 0.17	
3086	864		5.00
3950	800		
1292	1714	-.016	
2142			
			- 0.26
a-			
456	752		
1208	754		
2284	1506	056	
3038			
476			
1254	778		
2268	774		
3042	1552		

12-26-58
4977.519

7-29 30

052

067

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

1927phae.proj..663C

April 6, 1927

	a			II
7-34-40	496			
	1255	759		
	2300	725		
	3025	1484	-0.61	
	486		-062	
	1255	769		
	2292	706		
	2998	1475	-062	
	(2)		Mean -0.33	
	1326			
	2180	754		
	3118	867		
	3985	1621	-034	
	1268		-004	
	2250	982		
	3088	952		
7-39-30	4040	1934		
		1664	+026	

12-36-45
4977.526

E

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

1927phae.proj..663C

April 6 - 1927

	B.		
7 46 30	1288		
	2198	910	
	3047	1035	
	4082	1945	
		1655	+027
	1348		+0.16
	2198	850	
	3092	983	
	4075	1833	+006
		176.7	
			Mean = +0.21
	@		
	2284		
	2990	706	
	322	680	
	1202	1386	-080
	2248		-0.58
	3082	838	
	434	766	
7-5-15/200		160.4	-037

12-48-52

4977.534

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

1927phae.proj..663C

28

April 6 - 1927

	a.			IV
8-030	2255			
	3125	870		
	460	824		
	1284	1694	-020	
	2265			
	3018	753	-040	
	525	733		
	1258	1486	-060	
	B.		Mean = -0.14	
	3102			
	4012	910		
	1358	817		
	2175	1727	-.014	
	3028		+0.11	
	4034	1006		
	1243	981		
8-0520	2244	987		
		19		
~~13-04~~		1613	+0.36	
13-02-55				
4977.544				

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

1927phae.proj..663C

April- 6- 1927-

	VB.			V
8-1800	3052			
	4055	1003		
	1250	960		
	2210	1963		
		1637	+0.31	
	3078		+0.11	
	4078	1000		
	1399	751		
	2150	1751	-009	
			Mean =	-0.32
	A.			
	545-			
	1165-	620		
	2348	610		
	2958	1230	-1.13	
				0.76
	433.			
	1255	822		
	2277	778		
8-2300	3055	1600	-038	

13-20-30

4977.556

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

1927phae.proj..663C

April 6 - 1927

VII

	a		
8-2620	470		
	1240	770	
	2285	743	
	3028	1513	-055
	542		-057
	1248	706	
	2258	787	
	3045	1493	-059
	B		Mean -038
	1364		
	2200	836	
	3162	774	
	3936	1610	-036
	1365		
	2200	845	~~-~~ 019
	3088	942	
8-3020	4030	1787	-002

13-28-20

4977.561

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

1927phae.proj..6636

April 6 – 1927

VII

	B			
8-3710	1310			
	2204	894		
	3092	925		
	4017	1819		
		1781	+003	
	1318			
	2208	890	+002	
	3082	918		
	4000	1808		
		1792	+002	
	A		Mean =	−032
	2300			
	2998	698		
	475	720		
	1195	1418	−074	
	2257		067	
	3005	748		
	512	740		
8-4200	1252	1488	−060	

13-39-35

4977.569

E

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

1927phae.proj..663C

April 6 - 1927

	a.		VIII
8-5200	2302		
	3033	731	
	478	770	
	1248	1501	-057
	2252		
	2972	720	-052
	458	840	
	1298	1560	-046
	B.		Mean -026
	3108		
	4030	922	
	1262	912	
	2174	1834	
		1765	+006
	3100		
	4006	906	+000
	1304	866	
8-5640	2170	1772	-005

13-54-20

4977.579

E

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

1927phae.proj..663C

EST
LC obs

Thursday April 7th - 1927

F.T.C rec.

7-40.	δ Aurigae	060547	Est 130

I

Miss Wood's variable 075407
Ind-B Variable dir.

7-4230	4084		
	3958	924	
	1340	849	
	2189	1773	-0.05
	3060		
	4012	952	+003
	1311	907	
	2218	1859	+
		1741	011
	a.		
	52.4		Mean = -036
	1244	720	
	2302	720	
	2022	1440	-0.69
	533		
	1236	703	-074
	2322	696	
7-4630	~~2988~~	1399	078
	3018		

12-44-30
4978.531

E

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

1927phae.proj..663C

April 7 - 1927 -

7
8 - 55.00

a			II
496			
1208	712		
2302	726		
3028	1438	-070	
522			
1218	696	-072	
2278	720		
2998	1416	-074	
B		Mean = -034	
1316			
2246	930		
3078	950		
4028	1880		
	1720	+015	
1353			
2153	800	+004	
3144	960		
4004	1760	008	

7
8 - 5925
12 - 57 - 12
4978.540

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

1927phae.proj...663C

April 7 - 1927

	B			III
8-10-20	1372			
	2172	800		
	3128	890		
	4018	1690	021.	
	1322			
	2205	883	−010	
	3088	926		
	4014	1809	+002	
		1791		
	-A-		Mean = −28	
	2258			
	3072	814		
	4754	778		
	1252	1592	040	
	2286		−46	
	2968	682		
	462	852		
	1314	1534	051	
8-15-0				
13-12-40				
4978.551				

C

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

1927phae.proj..663C

April 7 - 1927

	A			IV
8 - 27.10	2278			
	2997	719		
	507	721		
	1228	1440	- 0.69	
	2255		- 54	
	3002	747		
	448	850		
	1298	1597	039	
	B		Mean = - 36	
	3133			
	4036	903		
	1348	844		
	2192	1747	- 0.10	
	3156		- 019	
	3958	802		
	1318	850		
8-31 10	2168	1652	028	

13 - 29 - 10

4978.562

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

1927phae.proj...663C

April 7 – 1927.

	B.			V
8-45-00	3 18,2			
	3958	776		
	1359	788		
	2147	156,4	-045	
	3078			
	4008	930	-26	
	1369	831		
	2200	176.1	-007	
	a.		Mean = 039	
	~~3137~~			
	~~4~~ 0			
	~~1379~~			
	~~2155~~			
	488			
	1227	739		
	2287	725		
	3012	1464	065	
	44.4		-052	
	1306	862		
	2283	745		
8 52 30	3028	1607	037	
13-48-45				
4978.576				

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

1927phae.proj..663C

38

April 7. 1927

10

9- ~~20~~ 00

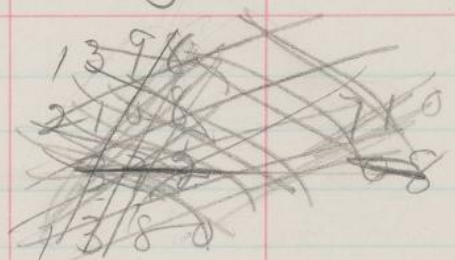
a

455
1288 833
2288 754
3042 1587 -041

498
1232 834 -047
2295 687
2982 1521 -053

Mean -040

B



3132
3988 856
1358 784
2142 1640 030

3145
3996 851 034
1398 746
2144 1597 039

9-16 20

14-13-10

4978.592

VI

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

1927phae.proj..663C

April 7 – 1927 –

	B.		
9-28 10	3172		VII
	3962	790	
	1363	790	
	2153	1580	042
	3118		-030
	4028	910	
	1354	794	
	2148	1704	018
			Mean -042
	9		
	424		
	1275	851	
	2252	776	
	3028	1627	-033
	488		-54
	1228	740	
	2318	669	
9-32.15	2987	1409	076

14-30-12

4978.604

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

1927phae.proj..663C

April 7 — 1927

	A.			
9-4545	462			
	1250	788		
	2268	794		
	3162	1582	-042	
	444			
	1285	841	-042	
	2288	742		
	3030	1583	-041	
	B		Mean = -031	
	1327			
	2212	885		
	3108	924		
	4032	1809	~~041~~	
		1791	+002	
	1373			
	2136	763	-020	
	3156	822		
9-5000	3978	1585	-041	

14-47-52

4978.617

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

1927phae.proj. .663C

Friday April 8-1927-

EST
Noon

L.C. 6b.

L.C. rec.

7-25 S.S. Lurgia 06054- Est- 125

Miss Wood's Variable 07 54 07.
Lord-B

~~7-2920 1250~~ Variable des. I
~~7-3200 2233~~
7-3220 3004
4043 1039
1304 1114
2218 2153 +0.68
1447

1264 +0.50
2224 960
3053 1013
4066 1973 +0.33
a- 1627 Mean = +0.02
2248
2998 750
446 830
1276 1580 -0.42

12-34-25 2238 -0.47)
4979.524 3040 802
320 728
7-3620 1248 1530 -052 C

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

1927phae.proj..663C

April 8 - 1927

	A.			II
7- 40 00	2262			
	3015	753		
	404	842		
	1246	1595	-039	
	2235			
	3035	800	-038	
	424	812		
	1236	1612	-036	
	B.		mean. = +0.07	
	3022			
	4046	1024		
	1287	1091		
	2278	2115		
		1485	+060	
	3042		+0.52	
	4052	1010		
	1248	1020		
7-45 20	2268	2030		
		1570	+0.44	

12-43-10

4979.530

C

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

1927phae..proj...663C

April 8- 1927-

3

	B.			
7 55 00	3025			
	4088	1063		
	1274	948		
	2222	2011	+ 040	
		1589		
	3063		+031	
	4068	1005		
	1314	914		
	2228	1919	+ 022	
		1681		
	A-		Mean = - .002	
	396			
	1235	839		
	2265	760		
	3025	1599	-038	
	427			
	1318	891	-036	
	2227	736		
7-59:15	3063	1627	-033	

12-57-08

4979.540

C

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

1927phae.proj..663C

April 8-1927

4

a.

8-1445' 398
1322 924
2234 891
3125 1815
1785

+ 063

482
1280 798
2232 832
3064 1630

+ 014

-032

Mean = +.04

B

1312
2258 946
3055 1025
4080 1971
1629

+032

1294
2218 924
3098 942
8-18 00 4040 1866
1734

+022

+013

13-16-22

4 979.553

C

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

1927phae.proj...663C

April 8 - 1927

	B			5
8-36 20	440		Comp * dis	
	1236	796		
	2264	808		
	3072	1604	+037	
	402			
	1298	896	+020	
	2202	890		
	3092	1786	+003	
	A		Mean = −0.02	
	1295			
	2266	1071		
	3056	1046		
	4102	2017		
		1583	+041	
	1271			
	2222	951	−4024	
	3106	882		
	3988	1833		
8-4050		1767	+006	
13-38-35				
4979.569				C

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

1927phae.proj..663C

April 8- 1927

	a			6
8-56:40	127.4			
	2152.	878		
	3098	868		
	3966	1746	+0.10	
	1262		− 008	
	2200	938		
	3075	1000	026	
	4075	1938	− ~~1662~~	
		1662		
	B2		Mean - +0.10	
	2205			
	3106	901		
	4444	778		
	1222	1679	+ 023	
	2263			
	3052	789	+029	
	428,	827		
9- 1-30	1255	1616	+ 035	

13-59-05
4979.583

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

1927phae.proj..663C

April 8–1927

	▽z			I
9-20.25	2298			
	3032	734		
	488	717		
	1205	145.1	+067	
	2213		+052	
	3044	831		
	478	770		
	1248	1601	+038	
	a		Mean +028	
	3107			
	4022	920		
	1288	890		
	2178	1810		
		1790	− 002	
	3056			
	3977	921	+004	
	1333	821		
9-25 10	2154	1742	+011	

14-22-48
4979.599

C

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

1927phae.proj..663C

April 8 - 1927

8

40

9-26 ~~30~~

	a		
	3133		
	3952	819	
	1298	890	
	2188	1709	+017
	3108		+017
	3932	824	
	1311	883	
	2194	1707	+017
	B		mean = 038
	4772		
	1252	780	
	2238	839	
	3077	1619	+034
	454		+050
	1224	870	
	2298	690	
9-3230	2988	1460	+065

14-29-35

4979.562

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

1927phae.proj..663C

April 8 – 1927

	B			9
9-3435	52.2			
	1232	710		
	2218	810		
	3078	1520	+054	
	502			
	1248	746	+049	
	2232	823		
	3055	1569	+044	
	A.		Mean 0+38	
	1282			
	2138	856		
	3118	756		
	3974	1612	+036.	
	1298			
	2184	886	+027	
	3120	818		
9 5925	3938	1704	+018	
14-57-00				
4979.623				
				E

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

1927phae.proj..663C

50

S.T. (1900)

Wednesday April 13-1927

L C. obs

F.V.Ouc.

7- 40	δ Aurigæ	060547	Est- 130	1
7- 41	α Gem.	074922	Est. 130	
	Miss W's star	075407	Variable dec	
	Dud B.			
7-45 20	3112			
	3968	856		
	1364	788		
	2152	1644	-0.30	
	3108			
	4206	898		
	1206	912	- 014	
	2218	1810	Mean = - 055	
	-α-	1790	+ 002	
	492			
	1198	706		
	2278	727		
	3005	1433	071	
7 48 10				
4984. 5-33	592			
	1173	581	.096	
	2348	610		
7-50 40	2958	1191	1.21	

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

1927phae.proj..663C

April 13 - 1927.

II

	Q.		
7-56.45	58.5		
	1205	620	
	2377	582	
	2959	1202	-119
	∴		
	51.8		
	1206	678	+1,04
	2336	668	
	3004	1346	-088
			Mean = -052
	B.		
	~~2163~~		
	3063		
	4080	1017	
	1274	932	
	2206	1949	
	∴	1651	+028
	3105		
	3977	872	-0,00
	1375	782	
8-1-20	2157	1654	-028
5			

12 59 ~~02~~ 12

49845541

12-59-02

C

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

1927phae.proj.0032C

April 13-1927

	B		I. II
8- ~~12~~ 07 10	3082		
	3933	~~8~~ 51	
	1347	842	
	2186	1693	~~679~~ -020
	3e82		
	3992	910	
	~~1~~294	969	- 002
	2263	1879	
		1721	+015
	A-		Sum = -044
	488		
	1185	697	
	2317	670	
	2987	1367	-084
	515		
	1192	677	-086
	2308	670	
8- 12 06	2978	1347	088

45
13-09-~~35~~

4984.549

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

1927phae.proj..663c

April 13 - 1927 -

	a			II
8.22.40	505			
	1170	665		
	2316	650		
	2966	131.5	- 095	
	482			
	1266	784	-078	
	2298	700		
	2998	148.4	061	
	B		Mean = -040	
	1265			
	2216	951		
	3143	882		
	4025	1833		
		1767	+ 006	
	1329			
	2165	836	~~-0~~ -001	
	3106	920		
8-27 ~~30~~	4026	1756	- 008	

13 - 25 - ~~15~~ 15

4984.559

C

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

1927phae.proj..663C

April 13-1927

	V3		V
8-37-50	1310		
	2250	940	
	3076	896	
	3972	183.6	
		1764	+007
	1286		
	2196	910	+004
	3127	893	
	4020	1803	+001
		1797	
	a-		Mean = -029
	2238		
	2974	736	
	5-08	734	
	1242	147.0	-063
	224.8		
	3012	764	+062
	498	724	
8-47:40	1222	148.8	-060

25
13-40-15

4984.569

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

1927phae.proj.:663C

April 13 - 1927

VI

	G		
8-58-00	2286		
	2977	691	
	492	686	
	1178	1377	-082
	2298		
	2967	669	-080
	482	730	
	1212	1399	-078
			Mean = -049
	Pb.		
	3105		
	3972	867	
	1310	868	
	2178	1635	031
	3098		
	3985	887	018
	1342	882	
9-02.50	2224	1769	006
814-00 -35 -25			
4984.584			

C 6

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

1927phae.proj..663C

56

April 13 - 1927.

VII

~~B~~ B

9 - 12 : 00

2088			
3996	908		
1306	866		
2172	177.4	-.005	
3056			
3975	919	-002	
1312	881		
2193	180.0	000	

~~A~~ a

Mean = -041

488			
1208	720		
2302	720		
3022	1440	-069	
523			
1198	675	680	
2328	659		
2987	133.4	091	

9 - 17 : 00

14 - 14 - ~~35~~ -45

4984.594

C

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

1927phae.proj..663C

April 13 - 1927 -

	9			VIII
9 - 28 : 35 -	518			
	1208	690		
	2362	586		
	2948	1276	-103	
	514		-078	
	1288	774		
	2306	744		
	3050	1518	-054	
	<B.		Mean = -029	
	1315			
	2233	918		
	3023	1010		
	4033	1928		
		1672	+0.24	
	1304			
	2264	960		
	3106	920	+020	
9 3330	4026	1880		
		1720	+015	

14 - 31 - ~~02~~ 12

4984.605

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

1927phae.proj..663C

58

April 13 - 1927 -

	B			II
9-41-25	1292			
	2233	941		
	3103	874		
	3977	1815		
		1785	+ 003	
	1320			
	2156	836	- 007	
	3124	876		
	4000	1712	- 017	
			Mean -038	
	9			
	2252			
	2976	724		
	516	736		
	1252	1460	- 065	
	~~1881~~			
	2308	~~1921~~	- 068	
	3016	708		
	5558	724		
9-47:55	1282	1432	071	

14 - 44 - ~~40~~ 50

4984.615

~~Water~~ ved = 10^{d} slow

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

1927phae.proj..663C

2 St. Room Thursday April 14 – 1927

L. Cobs

L.C. no. I

7-40.20 Ll Aur. d 0547 Est 12.8

Miss Woods' variable 075407

Set-B

7-48 15 384 Comparison + dec

1288 904

2252 854

3106 175.8 +008

337

~~387~~

+025

1205 868

2328 710

3038 157.8 +042 ~~087~~

a.

1327

2214 887 Mean = + 20.

8164 794

3958 168.1 +0.22

1347

2229 882 +015

3110 878 ~~06~~

7 53 00 3988 1760 +008

12-50-38

12-51-48

~~4985.535~~

4985.535

C

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

1927phae.proj..663C

60

April 14 – 1927

	A			II
8–03:00	1304			
	2204	900		
	3162	846		
	4008	1746	+0.10	
	1349			
	2204	855	+015	
	3152	842		
	3994	1697	+020	
	B		Mean = +.027	
	2262			
	3034	772		
	469	815		
	1284	1587	+041	
	2287			
	3052	765	+039	
	492	841		
8 07 40	1233	1606	+037	

~~13-05-20~~
~~4985.545~~
13-06-30
4985.546

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

1927phae.proj...663C

April - 14 - 1927 -

	B			III
8-33.15	2248			
	8074	826		
	33.2	736		
	1268	1562	+0,45	
	2288			
	3028	740	+046	
	46.4	814		
	1278	1554	+0.47	
			Mean = + 0,38	
	9 -			
	3167			
	3982	815		
	1376	766		
	2142	1581	042	
	3130			
	4508	878	038	
	1344	831		
8-38 05	2175	1709	017	

~~13-35-40~~

~~4985.567~~

13-36-50

4985.567

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

1927phae.proj..663C

April 14 - 1927

	Q			IV.
~~8.58-10~~	3142			
	3984	842		
	1388	784		
	2172	162.6	~~+~~033.	
	3168			
	3982	814	+0.40	
	1386	739		
	2125	1553	+047	
	<B		Mean +048	
	516			
	1256	740		
	2255	808		
	3063	1548	+0.48	
	*48.0			
	1228	748	057	
	2292	710		
9-02 20	3002	1458	+066	

~~00-15~~

~~4985.583~~

14-01-25

4985.584

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

1927phae.proj..663C

April 14 – 1927.

B:

9- ~~X~~ 17'10"

3077
4036
1216
2246

959
1036
1989
1611 + 636

3063
4088
1276
2292

1025
1026
2051
1549 +048

A:

~~3228~~
304
1370
2172
3144

1866
1072
2138
1462 +065

Mean = +0.52

380
1340
2146
3086

1960
946
1900
1700 +019

+042

9-24-28

~~14-20-38~~
~~4985.598~~
14-21-48
4985.599

Variable as V

C

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

1927phae.proj..663C

April 14 - 1927.

VI

a.

9-37 00

3163		Comp + dec
3972	809	
1378	780	
2158	1589	+040

3197		
3962	765	054
1408	682	
2190	1447	068

Mean +061

B.

459		
1208	749	
2312	674	
3080	1423	073

508		068
1206	698	
2252	780	
3032	1478	062

9:42:00

14-39-30
14-40-40
4985.612

C

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

1927phae.proj..663C

April 14 – 927

B. VII

9-

9-55- Duprosite b continue further

10 ω watch used = $1^m 10^s$ slow

A Mean -

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

1927phae.proj..663C

Mon Apr 18/1927

28 T (Room) LCObs 12" Rotax

7 30 δ δ Aur 06054) est <130

> 35 α Gem 07462 est <13.0
B 07500) Min Good Vis.
1355 <Van*dis Plot I
7 44.0 219.6 δ ε 1
311.6 δ δ δ
40.4 1729 −0.13 I

133.8
220.6 δ6δ ~~−005~~ 5
307.δ 950 −00 X
1811F
402.δ 17δ2 +0.03

20
~~B~~ B Mean = −0.1~~0~~
~~127~~ 945
222.2 900
310.2 1845 +0.0δ
42.2 1755

12-49-02 ~~13 7.δ~~
4989.534 A
~~304~~δ
49.δ δ10 472 754
130.δ δ36 122.6 δ20
223.δ 164.6 227.4 155.5
307.4 7.5403 09.4
7 ~~57~~4.0 029 −036 043

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

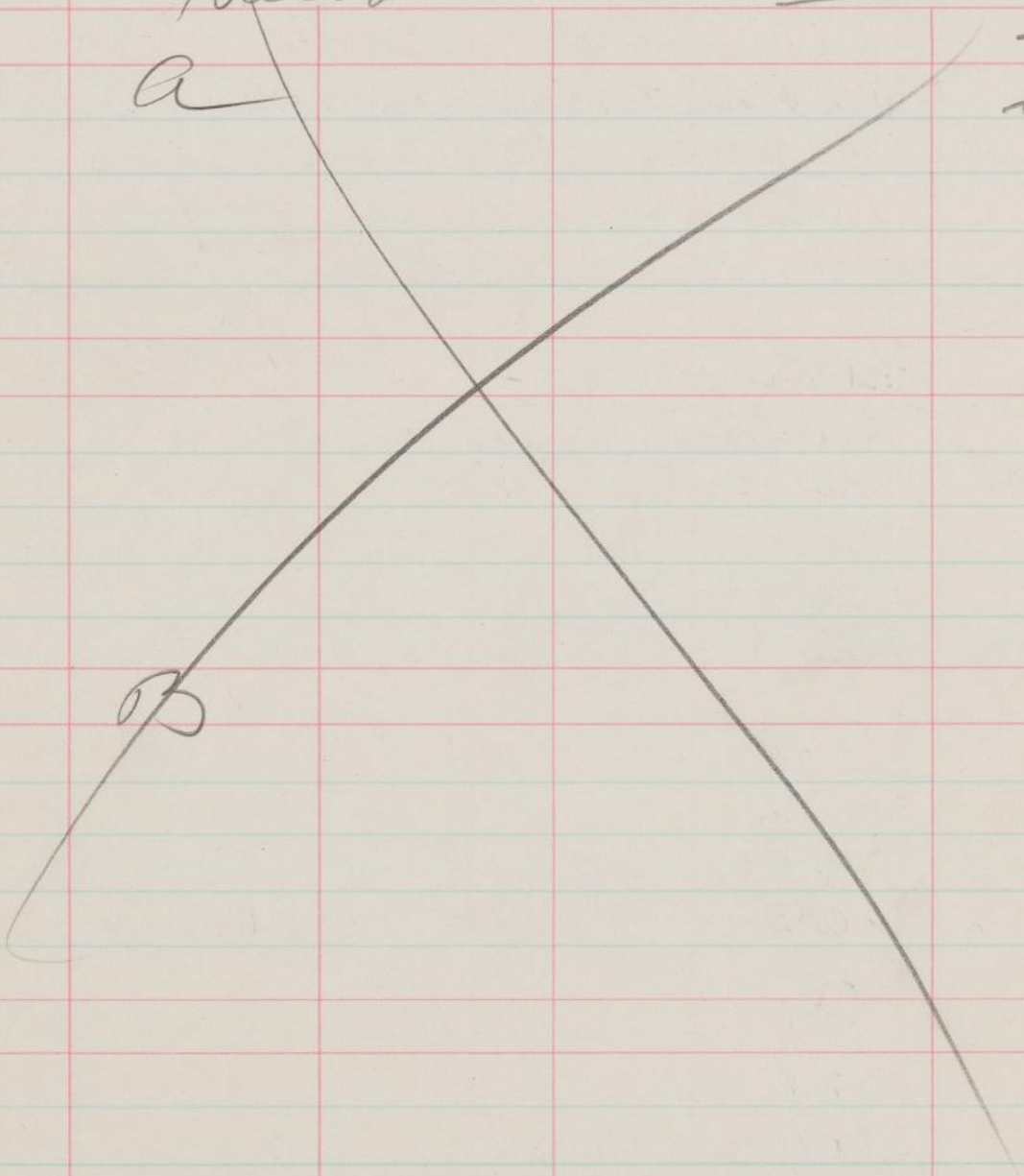
1927phae.proj..663C

Apr 18/1927

Mrs Woods Var 075307 Cat.

a

II



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

1927phae.proj..663C

E.S.T. noon

Monday May 1 - 1927 -

12" Polar

L.C. obs.

9 - 00	S S Aurigae	060547 -	Est.	
	Field pretty bright + var not seen, twilight too strong.			
9 - 27 -	U Gem -	074922	Est. 13.3	
	Miss Wood *	075607 -		
	Ind - B3	Comp * dec		I
9 - 35 10	2308			
	3022	714		
	4555	803		
	1258	161.7	035	
	2298		+ 050	
	3022	724		
	470	734		
	1204	1458	066	
	a		Mean = + 044	
	3178			
	3948	770		
	1414	793		
14 - 39 - 05	2207	1563	045	
5002.610	3150		038	
	4002	852		
	1374	784		
9 43 00±	2158	1636.	031	

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

1927phae.proj..663C

May 1 – 1927 –

a Same again. II

Impossible to get more on this star. Images not seen in photometer.

9:50

Fix Light;

Select more

variable.

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

1927phae.proj..663C

Thurs. May 19 1927

EST

12" Polar Ecl obs

8 30 Del Sem obs 49.22 est < 12.6

R Leo 09x211 est = 9.2

9 00 SS Aur obs(C) est 11.0

obsd in 6" Post Tel

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

1927phae.proj..663C

Saturday May 28 - 1927 -

EST
Hour
Obs

F. V. Prec.

8 132	U Gem	074922	Est 1.25	
			Comp *	
	L V. Vir.	080802	~~Variable~~ *	Dif.
	Std B			
8-42-	134.4			
	2216	872		
	3145	910		
	4055	178.2	003	
	1223			
	2275	1042	-028	
	3052	1070		
	4122	2112		
	a	1488	-060	
	2110			030
	3247	1137	Mean = -	~~028~~
	382	976		
	1358	2113		
		1487	-060	
	2222			
	3188	966	0,31	
	438	846	~~0.28~~	?
	1284	1812		
8-46		1788	-002	
13-44-00				
5029.572	Comp. A = * @ 13h 6m - 1deg 45m			

6

1927phae.proj..663C

72

May 28-1927

	Sud a		Var. dio	II
9.00	1344			
	2142	798		
	3098	932		
	4030	1730	+013	
	1382			
	2160	778	+ 033	
	3198	746		
	3944	1524	053	
	VB.		mean - 039	
	2296			
	3052	756		
	463	770		
	1233	1526	-052	
	2255			
	3100	845	+045	
	474	756		
9-04	1230	1601	-038	

14-02-00
5029.585

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

1927phae.proj..663C

May 28-1927

21-

9-~~10~~.

Pg			
2275			II
3050	775		
522	782		
1304	1557	046	
2230			
3100	870	-032	
~~403~~	832		
438	1702	019	
1270			
Q-		mean = 0.32	
378	Lcomp + di		
1320	942		
2188	958		
3146	1900	~~+~~ 019	
	1800		
420			
1412	992		
2177	1043	~~+~~ 032	
3220	2035	-	
	1565	~~+~~ 045	

9-24

14-22-30

5029.599

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

1927phae.proj..663C

74

May 28 1927.

	a		
9 35	1378		1111
	2102	722	
	3175	752	
	3927	1474	−063
	1307		−41
	2186	879	
	3166	822	
	3988	1701	−019
	B		Mean = −028
	2190		
	3155	965	
	422	878	
	1300	1843	
		1757	
			+008
	2252		
	3050	798	−016
	455	789	
9 − 39	1244	1587	−041

14-37-00
5029.609

E

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

1927phae.proj..663C

E.S.T. Noon
L.C. obs

Wednesday June 1 – 1927
12" Polar

F.J.C. rec.

8- 42. U. Gem. Kok. 07 4922 → 120

E.S.T. from Noon

I

SMS Trig. 130802
Sup – B. Variable dist

8 03 00
2204
2910 706
406 736
1142 1442 -069

2154
2968 814 -058
405 741
1146 1555 -047

Sup 9- Mean = -035
3016
3936 920
1194 936
2130 1856
1744 + 011

13-55-00
5033.580
3016
2890 824 – 12 E
1284 788
8-57 2072 1612 -036

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

1927phae.proj..663C

June 1 - 1927.

9 - X 6	a			
	3097			
	3878	781		II
	1272	812		
	2084	1593	-039	
	3028			
	3964	876	-025	
	1182	864		
	2046	1740	-011	
	B.		mean -- 032	
	337			
	1167	830		
	2185	864		
	3049	1594	-020	
			~~020~~	
	374			
	1142	768	-038	
	2214	733		
9 - 10	2947	1501	-057	

14 - 08 - 00

5033.589

E

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

1927phae.proj..663C

June 1-1927

	B.			
9-21-	442			
	1133	691		III
	2186	780		
	2966	1471	-063	
	38.5		-032	
	1212	827		
	2083	967		
	3050	1794	-001	
			Mean = - 0.24	
	a			
	1157			
	2122	965		
	3094	894		
	3988	1859	+ 011	
		1741		
	1300			
	2050	750	- 017	
	3064	812		
9 25	2876	1562	- 045	

14-23-00

5033.599

E

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

1927phae.proj..663C

78

June 1 – 1927

III (4)

9-40

a		
1296		
2016	720	
3092	788	
2880	1508	056
1240		– 037
2061	821	~~– 087~~
3032	884	
3916	1705	018
		0.32
B		Mean – ~~050~~
298		
1198	900	
2086	950	
3036	1850	
	1750	+009
402		
1102	700	– 020
2200	762	
2962	1462	– 0.65

9-44

14-42-00

5033.612

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

1927phae.proj..663C

Wednesday June 8 - 1927

12" Polar. F.V.C. rec.

L.C. obs.

EST. noon 8-38 — Uzen 076922 — 12" & 6" Telescope

Too low in ~~twilight~~

Survir 130202 Phot. I

Wardir

	B		
8-48	428		
	1128.	700	
	2237	689	
	3926	138.9	-050
	407		-056
S	1160	753	
	2148	880	mean = -033
	3028	1633	-032
	Q		
	1132		
	2130	998	
	3120	802	
	3922	180.0	000
	1222		-010
	1063	841	
	3023	859	
assumed	2882	170.0	-019

8-52±

13-50-00

5040.576

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

1927phae.proj..6630

80

June 8 - 1927

9 03-

8-

	A		II
	1214		
	2092	878	
	3042	850	
	3892	1728	-014
	1218		
	2104	886	-008
	3066	896	
	3962	178.2	003
			mean = - 016
	B.		
	2106		
	2950	844	
	378	804	
	1182	1648	029
	2156		- 024
	2924	868	
	372	798	
9 07-	1170	1696	020

14-05-00

5040.587

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

1927phae.proj..663C

June 8 – 1927

III

	B			
9-21-	2202			
	2982	780		
	398	780		
	1178	156.0	-046	
	2140			
	3036	896	-034	
	378	794		
	1172	169.0	021	
	A-		Mean = -026	
	3008			
	3862	854		
	1221	871		
	2092	1725	014	
	3076			
	3908	832	019	
	1275	842		
	2117	1674	024	

9-25

14-23-00

5040.599

C

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

1927phae.proj..662C

82

June 8 - 1927

	a			IV
q - .34 -	3092			
	3872	780		
	1266	816		
	2082	1596	-039	
	3102		-036	
	3898	796		
	1273	820		
	2098	1621	-034	
	B.		Mean = -.031	
	1352			
	1256	904		
	2116	884		
	3000	1788	-.002	
	1466		-026	
	1120	654		
	2115	883		
q .37	2998	1537	-.050	

14 - 35 - 30

5040.608

C

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

1927phae.proj...6636

Wednesday June 15 - 1927

L.C. obs

F.T. Crew

E.D.S. four noon SW Vir 130802 Phot T

9-06 Std B

27.0 Variable dis

1240	970	
2151	877	
3028	1847	
	1753	+009

T

~~852~~		
1195	843	-005
2096	838	
2944	1701	-019

mean = -008

9

1227		
1087	855	
3080	808	
3888	1663	-026

1182		
2086	904	
3022	900	-012
3922	1804	
	1796	

9-18 +.001

13-08-00

5047.547

C

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

1927phae.proj.663C

84

June 15 1927

II

	Q			
9-19	1238			
	2096	863		
	3006	896		
	3902	1759	-008	
	1234		-010	
	2056	822		
	2998	914		
	3912	1736	012	
			mean = -006	
	PQ			
	2117			
	3008	891		
	3361	817		
	1178	1708	-017	
	2038		-003	
	3024	986		
	328	870		
9-23	1198	1856		
		1744	+011	

13-21-00
5047.556

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

1927phae.proj...663C

Thursday June 16 - 1927

L.C. obs. P.C. rec.

@ 8:29:30 faint meteor shot thru field of S.V. Vir.
130802 mag. 9-

EST. (Noon)

S.V. Virg 130802
Incl - Variable dis
~~D~~ a ~~Comp~~ * dis

8-33-	31.4		
	1178	864	
	2114	916	
	3030	178.0	+004
	36.2		
	1188	826	+008
	2132	904	
	3036	173.0	+013
	~~E~~ - B		
	120.8		mean = +016
	2118	910	
	3002	962	
13-35-00	3964	187.2	
		1728	* - 014
5048.566	1164		
	2218	1114	+039
	2952	1040	
8 37	3992	2154	A - 064
		1446	

C

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

1927phae.proj.663C

June 16 - 1927

B

8-40-

113.2		
2170	1038	II
2923	1057	
3980	2095	± .057
	1505	

1204		± 0.40
2136	932	
3000	992	
3992	1914	± .022
	1686	Mean ± 0.13

A

2148		
2982	834	
322	842	
1164	1676	+.024

2064		
2998	934	+.014
338	830	
1168	1764	+.007

8-44

13-42-00
5048.571

C

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

1927phae.proj..663C

June 16 - 1927

	P		
9--02	1198		Variable Dist
	2132	934	
	2988	920	
	3908	1854	
		1746	+ 010 III
	1192		
	2144	992	+020
	2952	972	
	3924	1964	
		1636	+ 031
	P		
	2133		mean = +004
	3016	883	
	360	818	
	1178	1701	+ 019
	2152		
	2980	828	- 028
	388	774	
9-06	1162	1602	+ 038

14-04-00

5048.586

C

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

1927phae.proj,663C

Saturday June 18 – 1927

12" Polar

Cobs

F.C. pic.

S. Pole. Unig. 130802

~~9~~ E.S.T. Noon

Too cloudy for variable.

P. W. comet found about 5 m. & 1 sec. further East than Ephemeris indicates but correct in declination

9 – 9

A. Mean ε –

Comet

E.S.T. from noon

1st wire 10:05:24

2nd wire 10:05:31

1:28

* B.D. +49° 2707

1st wire 10:06:52

2nd wire 10 07 : 03

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

1927phae.proj..663C

Tuesday June 21 - 1927 -

12" Clear.

L. C. obs

E. S. T. Noon

	S. Pk. Virg	130802	Phot T.
38	B.		ranunculus
8- 44	1255		
	2092	837	
	3053	839	
	2892	1676	- 024
	1122		
	2248	1126	+ 034
	2887	1153	
	4040	2279	
		1321	+ 093
	9		
	2135		
	3018	883	Mean = ~~- 041~~ ~~+ 002~~ - 008
	402	810	
	1212	1693	- 020
	2238		
	2934	696	- 051
	453	683	
8-42	1136	1379	- 082

13-40-00

5053.569

I

C

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

1927phae.proj.663C

90

June 21 – 1927

	a			
8-53	2204			
	3004	800		
	402	774	–	II
	1176	1574	-043	
	2158			
	3055	897	-030	
	392	813		
	1205	1710	017	
			Mean = -0.09	
	B			
	2982			
	~~3892~~	~~1010~~	910	
	1161	~~1908~~	1008	
	2169	~~2018~~	1918	+022
		~~1582~~	+	~~042~~
			1682	
	3070			
	~~3892~~	+822		
	1156	986	+0.12	
8 59	2142			
		1808		
13-56-00		1792	+0.02	
5053.581				

C

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

1927phae.proj..663C

June 21 — 1927 —

B

9-15

3006
3980
1168
2098

974
930
1904
1696

+ 020

T 11

2990
3950
1212
2142

960
930
1890
1710

+018
+017
Fiducial +004

@

321
1229
2113
3056

908
943
1851
1749

+ 009

420
1154
2126
3018

785-4
892
1646

- 010
- 029

9 20±

14-17-30

5053.596

C

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

1927phae.proj..663C

92

Friday 24-25 June 1927

12" Polar

Julian Day 2,425,056

Bodel 103

L. C. Obs+Rec. 10:57:00 E.S.T. = 11:57:16 Watch Time Phot. T.

E.D.S.T. (noon of June 24)

CQ Cygni (87 on aavso chart 195553, Nova Cygni #3).

Comp * (84 on aavso chart 195553, Nova Cygni #3).

195653

All records in watch time.

Declination circle reading + 54°.2

-20^s	Index B	Comp * brighter and dis.		
12:12:30	151.8			I
	229.2	77.4		
	330.3	74.5		
12:15:30	44.8	151.9	+0.54	
	404.8			
			+0.38	
12:16:30	151.6			
	233.8	82.2		
	328.9	86.1		
12:21:30	55.0	168.3	+0.22	
	415.0			
16h 21m 5 G.M.T.	Index A	J.D. 0.6816		+0.45 25
12:23:30	246.1			
	319.0	72.9		
	64.1	75.8		
12:26:30	139.9	148.7	+0.60	
			+0.52 5	
12:27:30	242.0			
	319.8	77.8		
	64.3	78.7		
12:30:00	143.0	156.5	+0.45	

5056.682

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

1927phae.proj..663C

24-25 June 1927

J.D. 2424056

-20^s	A			
12:34:00	338.6			II
	54.8	76.2		
	163.8	71.2		
12:39:00	235.0	147.4	+0.63	
			$+0.61_5$	
12:39:30	341.3			
	56.8	75.5		
	161.7	73.3		
12:42:00	235.0	148.8	+0.60	
$16^h 41.^m5$ G.M.T.	B	J.D. 0.6965		$+0.50_5$
12.42:30	69.1			
	146.9	77.8		
	249.8	75.2		
12:44:30	325.0	153.0	+0.52	
			$+0.39_5$	
12:45:20	65.1			
	147.2	82.1		
	248.2	83.7		
12:47:40	331.9	165.8	+0.27	

5056.696

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

1927phae.proj..663C

94

24-25 June 1927.

-20^s	B			
12:53:10	276.8			III
	356.8	80.0		
	96.6	82.1		
12:55:40	178.7	162.1	+0.34	
			+0.30$_5$ ~~+0.21~~	
12:56:30	275.0			
	362.8	87.8		
	99.0	~~78~~ 81.1	+0.27 ~~+0.08~~	
12:59:30	177.1	1~~6~~5.9		
				+0.43$_{25}$ ~~+0.38$_5$~~
$16^h\ 59^m.3$	A	J.D. 0.7078		
1:00:20	11.0			
	81.2	70.2		
	186.1	78.1		
1:02:30	264.2	148.3	+0.61	
			+0.56	
1:03:50	6.7			
	83.8	77.1		
	186.0	76.3		
1:05:50	262.3	153.4	+0.51	

E.D.S.T. referred to Midnight of June 25th from here on to P101

5056.709

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

1927phae.proj..663C

24-25 June 1927.

-20°	A			IV
1:32:10	4.9			
	86.9	82.0		
	188.0	77.1		
1:37:00	265.1	159.1	+ 0.40	
			+0.34	
	2.0			
	84.8	82.8		
	183.8	82.2		
	266.0	165.0	+0.29	
$17^{h}38.^{m}8$	B	J.D. 0.7353		+0.355
	94.1			
	174.6	80.5		
	275.6	80.1		
	355.7	160.6	+0.37	
			+0.36	
	96.3			
	178.3	82.0		
	278.0	79.0		
1:46:10	357.0	161.0	+0.36	

5056.735

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

1927phae.proj..663C

24-25 June 1927.

	B			
1:48:50	96.8			V
	171.0	74.2		
	277.7	78.3		
	356.0	152.5	+ 0.53	
	~~94.9~~		+ 0.40	
	94.9			
	181.1	86.2		
	275.0	80.2		
	355.2	166.4	+ 0.26	
$17^h\ 54^m.6$	A	J.D. 0,7462$_5$		+0.45$_{-5}$
	183.0			
	266.3	83.3		
	6.9	78.9		
	85.8	162.2	+ 0.34	
			+ 0.50	
	187.3	77.1		
	264.4	69.0		
	15.2	146.1	+ 0.65	
2:00:40	84.2			

5056.747

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

1927phae.proj..663C

24–25 June 1927

	B			
2:54:30	274.8			VI
	357.4	82.6		
	99.2	79.4		
	178.6	162.0	+0.34	
			+0.36	
	278.0			
	358.7	80.7		
	99.9	79.9		
	179.8	160.6	+0.37	
	A			
$18^h\ 58^m.9$		J.D. 0.7909		+0.46_5
	8.8			
	83.9	75.1		
	190.8	71.0		
	261.8	146.1	+0.65	
			+0.56	
	9.7			
	87.8	78.1		
	188.0	78.0		
3:04:00	266.0	156.1	±0.46	

5056.791

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

1927phae.proj..663C

24-25 June 1927.

	A			
3:05:00	6.3			
	85.2	78.9		III
	189.0	75.3		
	264.3	154.2	+0.49	
			+0.48	
	7.0			
	84.0	77.0		
	188.8	78.2		
	267.0	155.2	+0.47	
$19^h\ 10^m.4$	B	JD. 0.7989		$+0,53_{25}$
	100.2			
	174.3	74.1		
	278.2	77.4		
	355.6	151.5	+0.55	
			+0.58	
	97.1			
	173.4	76.3		
	278.0	71.2		
3:16:30	349.2	147.5	+0.62	

5056.799

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

1927phae.proj. .663C

24-25 June 1927

	13			
3:36:50	104.0			VIII
Called this	175.0	71.0		
3:26:50	281.3	74.5		
	355.8	145.5	+0.66	
			+0.60	
	97.1			
	175.1	78.0		
	282.6	73.5		
	356.1	151.5	+0.55	
$19^{h}32.^{m}1$	A	J.D. 0.8140	.	+0.59
	190.0			
	265.0	75.0		
	11.6	70.5		
	82.1	145.5	+0.66	
			+0.58	
	188.0			
	267.0	79.0		
	8.6	75.4		
3:38:00	84.0	154.4	+0.49	

5056.814

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

1927phae.proj..663C

100

24-25 June 1927.

	A			
3:41:20	186.5			II
	265.0	78.5		
	9.7	76.3		
3:44:00	86.0	154.8	+0.48	
			+0.43	
3:44:40	185.7			
	269.0	83.3		
	9.1	76.7		
3:46:40	85.8	160.0	+0.38	
	1			
$19^{h}\ 47^{m}.1$	B	J.D. 0.8244		+0.46$_5$
3:47:30	274.7			
	357.0	82.3		
	100.0	75.7		
3:50:20	175.7	158.0	+0.42	
			+0.50	
3:51:10	277.1			
	353.0	75.9		
	100.0	74.1		
3:53:50	174.1	150.0	+0.58	

Bright dawn. Noticeable in field only during last part.

~~5056.866~~

5056.824

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

1927phae.proj..663C

24-25 June 1927.

	B			
4:04:50	280.9			
	350.0	69.1		X
	101.3	70.7		
	172.0	139.8	+0.78	
			+0.64	
	278.2			
	353.2	75.0		
	98.9	78.4		
	177.3	153.4	+0.51	
$20^h 07.^m9$	A	J.D. 0.8388		$+0.52_5$
	188.2			
	269.6	81.4		
	4.8	75.3		
	84.1	160.7	+0.37	
			+0.40	Mean for evening
				+0.476
	185.2			
	266.1	80.9		
	5.1	76.1		
4:11:40	81.2	157.0	+0.44	

Bright dawn in field; easily confused might last four.
3:25:00 E.S.T. = 4:25:24 Watch.
The night men informed me it was quite cloudy in the region at times, especially just before dawn.

5056.839

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

1927phae.proj..6630

Sunday 26-27 June 1927. 12" Plate

C Q Cygni (See page 92)

2. E.C.Obs+Rec 2:30:00 E.S.T. = 3:30:28 Watch Time Plate T.

Watch Time	Index B	Comp. * (aGC5084) brightness and dist.		
3:44:10	278.3			I
	352.4	74.1		
	98.0	74.1		
	172.1	148.2	+0.61	
				+0.70
	280.0			
	349.9	69.9		
	99.9	69.3		
	169.2	139.2	+0.79	
	A			+0.50
	2.7			
	87.1	84.4		
	184.1	85.8		
	268.9	170.2	+0.19	
				+0.30
	8.3			
	86.9	78.6		
	186.0	79.9		
3:53:20	265.9	158.5	+0.41	

These times are E.D.S.T. and referred to Midnight of June 27th

p. 102 - 103

19-48-45

5058.826

It suddenly cleared about 3:25 and the clouds were still in Capricornus when observation was begun. It was also clear just down and slightly noticable in East of group

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

1927phae.proj..663C

26-27 June 1927.

	A			
3:54:00	6.8			II
	86.2	79.4		
	186.2	77.9		
	264.1	157.3	+0.43	
			+0.43	
	9.6			
	87.8	78.2		
	189.8	79.3		
	269.1	157.5	+0.43	
	B			+0.55
	97.2			
	173.2	76.0		
	281.1	73.9		
	355.0	149.9	+0.58	
			+0.66	
	102.9			
	174.9	72.0		
	279.7	69.1		
4:04:50	348.8	141.1	+0.75	

Bright dawn in field but easily compared - stars noticeably fainter at end. Apparently two new stars during the two groups.

19-59-25

5058.833

Bell 103 3:26:00 E.S.T = 4:26:29.5 Watch time.

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

1927phae.proj.663C

104

Monday 27-28 June 1927

CQ Cygni 12" Polar.

G.E.C. Obs + Rec	11:19:00 E.S.T. = 12:19:43 Watch Time.			Phot. I.
Watch Time	Index B	Comp* (aa v5084) brighter and dis		
12:30:00	277.8			
	350.6	72.8		I
E.S.T. Time	100.0	69.2		
reduced to	169.2	142.0	+0.73	
Noon of June				
27th			+0.78	
pros	280.7			
	348.8	68.1		
	101.9	69.2		
	171.1	137.3	+0.83	
	A			+0.50
	4.9			
	85.9	81.0		
	184.1	82.9		
	267.0	163.9	+0.30	
			+0.23	
	4.7			
	89.8	85.1		
	183.0	86.5		
12:43:15	269.5	171.6	+0.16	

16-36-38

5059.692

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

1927phae.proj..663C

27-28 June 1927

	B			
1:58:50	275.6			
	353.0	77.4		II
E.S.T.	97.0	74.8		
reduced to	171.8	152.2	+0.53	
Midnight				
of June 28			+0.58	
p. 105-110	282.0			
	353.2	71.2		
	98.2	76.1		
	174.3	147.3	+0.63	
	A			+0.42
	9.8			
	84.6	74.8		
	182.2	83.4		
	265.6	158.2	+0.42	
			+0.26	
	3.0			
	87.4	84.4		
	182.8	90.1		
2:12:20	272.9	174.5	+0.10	

18-05-35

5059.754

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

1927phae.proj..663C

106

27-28 June 1927

	A			
2:25:00	2.1			III
	86.1	84.0		
	184.3	80.5		
	264.8	164.5	+0.29	
			+0.28	
	8.1			
	90.3	82.2		
	181.8	83.1		
	264.9	165.3	+0.28	
	B			+0.47
	97.2			
	170.8	73.6		
	282.1	68.1		
	350.2	141.7	+0.74	
			+0.65	
	98.8			
	173.5	74.7		
	278.0	76.2		
2:37:00	354.2	150.9	+0.56	

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

1927phae.proj.:663C

27-28 June 1927

	B			
2:44:50	99.6			IV
	174.0	74.4		
	280.6	73.7		
	354.3	148.1	+0.61	
			+0.61	
	100.3			
	171.2	70.9		
	277.9	77.1		
	355.0	148.0	+0.61	
	A			+0.46
	184.0			
	266.2	82.2		
	4.3	83.5		
	87.8	165.7	+0.27	
			+0.30	
	183.9			
	264.9	81.0		
	5.7	81.3		
2:54:45	87.0	162.3	+0.34	

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

1927phae.proj.663C

108

27-28 June 1927.

	A			
3:05:10	186.0			
	268.2	82.2		V
	4.2	85.0		
	89.2	167.2	+0.24	
			+0.28	
	186.5			
	267.0	80.5		
	7.0	81.9		
	88.9	162.4	+0.33	
	B			+0.41
	279.8			
	350.2	70.4		
	99.2	78.1		
	177.3	148.5	+0.60	
			+0.54	
	281.9			
	356.6	74.7		
	98.1	80.3		
3:17:10	178.4	155.0	+0.48	

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

1927phae.proj..663C

27-28 June 1927

	B			
3:26:20	276.8			VI
	355.7	78.9		
	100.2	79.0		
	179.2	157.9	+0.42	
			+0.44	
	277.9			
	353.2	75.3		
	93.9	80.0		
	173.9	155.3	+0.47	
	A			+0.43
	6.8			
	86.1	79.3		
	189.9	76.8		
	266.7	156.1	+0.46	
			+0.42	
	6.7			
	85.9	79.2		
	186.0	81.2		
3:39:40	267.2	160.4	+0.37	

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

1927phae.proj..663C

27-28 June 1927.

	A			
3:48:30	187.3			VII
	266.0	78.7		
	2.7	82.3		
	85.0	161.0	+0.36	
			+0.30	
	184.0			
	265.6	81.6		
	5.4	85.2		
	90.6	166.8	+0.25	
				+0.41
	279.0			
	360.0	81.0		
	101.2	73.6		
	174.8	154.6	+0.49	
			+0.52	
	277.9			
	355.0	77.1		
	100.4	74.6		
4:00:20	175.0	151.7	+0.54	

Bright dawn. Rather troublesome in field.
3:19:00 E.S.T. = 4:19:49 Watch Time.

1927phae.proj..663C

E S Tinsley & Moon

Thursday June 30 - 1927

L C obs.

F. I. Prec.

8 — 42.

8 W Virg. 130802

Variable Ads.

I

	9		
	88.8		
	1852	964	
	2768	862	
	3630	1826	
		1724	+ 005
	943		
	1872	929	000
	2729	836	
	3665	1765	− 006
	B.		Mean − + 002
	1752		
	2808	1056	
	82.2	899	
	921	1955	
		1645	+ 029
	186.2		
	2713	851	+ 004
8 assumed	8.2	846	
42	928	1697	− 020

8 − 47 ±

13 − 44 − 30

5062,572

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

1927phae.proj..663C

June 30 - 1927

	B'			II
8-52	18.22			
	2160	838		
	2.2	856		
	878	1694	+ 020	
	1768		+ 004	
	2748	980		
	3598	964		
	962	1944	+ 027	
		1656		
	A' -		- 007 - Mean.	
	2922			
	3672	750		
	947	900		
	1847	1650	- 029	
	2768			
	3666	898	- 018	
	940	871		
8-58	1811	1769	- 006	

13-55-00

5062.580

C

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

1927phae.proj..663C

June 20 - 1927

Made in Czechoslovakia

III

A.

9-04

2798
3622
924
1858

824
934
1758

-008

2943
3668
868
1898

720
1030
1755

-008

Mean -0.09

B.

3574
944
1814
2740

970
926
1896
1704

+ 018

7.3
8744
1906
2698

801
792
1593

10
- ~~21~~
-039

9 08-

14-06-00

5062.587

5062.587

C

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

1927phae.proj - 663C

June 20 - 1927.

IV.

B

9-21

2.2
892 870
1821 912
2733 178.2 -003

3.8
943 905 +004
1843 952
2795 1857 +001
1743

Mean = +0008

9

833
1928 1095
2726 957
3683 2052 8
1548 +046

952
1824 872 +016
2784 849
3633 1721 -015

925

14-23-00

5062.599

C

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

1927phae.proj..663C

June 30 1927

9-42	a			V
	947			
	1837	890		
	2780	850		
	3630	1740	-011	
	892			
	1902	1010		

Images disappeared in field - groups incomplete

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

1927phae.proj.0000

Thursday June 30-July 1, 1927.
C 9 Cygni 12" Polar

L.E.C. Obs. + Rec. 9:56:00 Ballou = 10:56:10 Watch Time. Phot. I.

Watch Time	Index B	Comp * (AAVSO84)	Comp * (AAVSO84)	Phot. I.
11:14:00	101.2			
	176.0	74.8		I
E.D.S.T.	277.0	78.0		
reduced to	355.0	152.8	+0.52	
Noon of June 30 pp. 116-119			+0.58	
	101.5			
	173.8	72.3		
	280.1	73.9		
	354.0	146.2	+0.65	
	A			+0.54
	191.8			
	268.7	76.9		
	10.6	77.6		
	88.2	154.5	+0.49	
			+0.50	
	190.2			
	265.3	75.1		
	8.9	78.4		
11:21:10	87.3	153.5	+0.51	

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

1927phae.proj..663C

June 30 - July 1, 1927

	A			
11:26:30	183.1			
	268.3	85.2		II
	8.0	84.2		
	89.2	169.4	+0.20	
			+0.32	
	189.8			
	266.3	76.5		
	5.0	81.0		
	86.0	157.5	+0.43	
	B			+0.41
	279.8			
	357.1	77.3		
	100.2	75.6		
	175.8	152.9	+0.52	
			+0.50	
	282.0			
	356.0	74.0		
	100.3	80.3		
11:38:00	180.6	154.3	+0.45	

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

1927phae.proj..663C

June 30 - July 1, 1927

	B			
11:44:00	275.0			
	358.1	83.1		III
	98.1	81.5		
	179.6	164.6	+0.29	
			+0.43	
	280.9			
	354.1	73.2		
	98.1	77.1		
	175.2	150.3	+0.57	
	A			+0.44
	10.1			
	81.2	71.1		
	186.2	80.4		
	266.6	151.5	+0.55	
			+0.44	
	5.0			
	88.9	83.9		
	188.9	79.5		
11:54:00	268.4	163.4	+0.32	

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

1927phae.proj..663C

June 30 - July 1, 1927

	A			
12:12:10	6.9			IV
	87.1	80.2		
	185.4	86.2		
	271.6	166.4	+0.26	
			+0.33	
	4.2			
	84.4	80.2		
	187.0	78.9		
	265.9	159.1	+0.40	
	B			+0.40 75
	99.3			
	176.2	76.9		
	281.9	74.2		
	356.1	151.1	+0.55	
			+0.48	
	96.8			
	175.8	79.0		
	278.8	79.2		
12:24:20	358.0	158.2	+0.42	

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

1927phae.proj.663C

June 30 – July 1, 1927.

	B			
1:05:10	99.2			
	171.6	72.4		V
E.S.T.	278.0	77.9		
reduced to	355.9	150.3	+0.57	
Midnight of				
July 1st civil date			+0.68	
pp. 120–126	102.7			
	171.7	69.0		
	283.7	70.3		
	354.0	139.3	+0.79	
	A			+0.55
	189.7			
	264.9	75.2		
	8.4	80.5		
	88.9	155.7	+0.46	
			+0.42	
	186.7			
	266.8	80.1		
	7.8	80.4		
1:15:40	88.2	160.5	+0.37	

The eye was used in making the sky out-of-doors for some little while before this group.

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

1927phae.proj..663C

June 30 - July 1, 1927.

	A			
1:26:40	181:3			II
	268.7	87.4		
	11.0	74.8		
	85.8	162.2	+0.34	
			+0.38	
	187.7			
	268.0	80.3		
	9.1	78.3		
	87.4	158.6	+0.41	
	B			+0.44
	280.0			
	354.0	74.0		
	98.9	74.0		
	172.9	148.0	+0.61	
			+0.52	
	277.8			
	358.0	80.2		
	101.2	77.4		
1:33:40	178.8	157.8	+0.42	

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

1927phae.proj.:663C

June 30 - July 1, 1927

	B			
1:47:30	278.9			VII
	357.0	78.1		
	96.0	85.7		
	181.7	163.8	+0.31	
			+0.50	
	282.1			
	352.3	70.2		
	102.7	73.4		
	176.1	143.6	+0.70	
	A			+0.43
	11.0			
	87.8	76.8		
	187.1	82.3		
	269.4	159.1	+0.40	
			+0.36	
	4.2			
	86.8	82.6		
	190.0	80.0		
1:57:00	270.0	162.6	+0.33	

The eye was used for watching the sky out-of-doors for a little while before this group.

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

1927phae.proj..663C

June 30 - July 1, 1927.

	A			
2:18:00	8.7			VIII
	91.7	83.0		
	190.8	80.2		
	271.0	163.2	+0.32	
			+0.36	
	11.2			
	86.0	74.8		
	185.2	84.0		
	269.2	158.8	+0.40	
				+0.43
	B			
	103.0			
	172.8	69.8		
	280.0	79.7		
	359.7	149.5	+0.58	
			+0.50	
	97.0			
	177.1	80.0		
	281.0	78.2		
2:28:40	359.2	158.2	+0.42	

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

1927phae.proj.663C

June 30 - July 1, 1927

	B			
2:53:50	101.8			
	176.8	75.0		IX
	284.0	74.3		
	258.3	149.3	+0.59	
			+0.60	
	102.2			
	175.9	73.7		
	281.0	73.8		
	354.8	147.5	+0.62	
	A			+0.52
	192.0			
	266.1	74.1		
	8.1	81.3		
	89.4	155.4	+0.47	
			+0.44	
	188.0			
	268.9	80.9		
	5.0	77.9		
3:04:30	82.9	158.8	+0.40	

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

1927phae.proj..663C

June 30 - July 1, 1927

2:17:50 Ballou = 3:17:19 Watch Time. Woodward Watch.

	A			
3:22:30	186.0			X
	269.2	83.2		
	12.1	77.9		
	90.0	161.1	+0.36	
			+0.36	
	189.6			
	269.8	80.2		
	8.9	80.5		
	89.4	160.7	+0.37	
	B			+0.47
	~~359.2~~			
	98.8			
	175.8	77.0		
	282.8	74.1	+0.55	
	356.9	151.1		
			+0.58	
	102.0			
	175.4	73.4		
	280.9	75.2		
3:34:10	356.1	148.6	+0.60	

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

1927phae.proj.003c

June 30 - July 1, 1927

	B			
3:45:40	99.0			
	179.0	80.0		XI
	277.9	76.1		
	354.0	156.1	+0.46	
			+0.56	
	161.2			
	170.1	68.9		
	280.0	76.9		
	356.9	145.8	+0.66	
	A			+0.44
	189.9			
	269.4	79.5		
	11.1	77.1		
	88.2	156.6	+0.45	
			+0.33	
	184.2			
	270.0	85.8		
	6.8	82.9		
3:55:10	89.7	168.7	+0.21	

3:12:10 Baldon = 4:12:20 Watch Time.

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

1927phae.proj..663C

Tuesday July 5 1927

L. Cobs. L. V. Cree

S.W. Virg 130802
Too low in tree tops.

E.S.E. wfeed @ Noon

g. Hyce 162642 Nar. dis.

9-9	3108		
	3202	94	
	1302	134	
	1436	228	-5.00
	3098		-4.54
	3298	200	
	1298	149	
	1447	349	-4.07
	310		mean = -3.66
	610	300	
	2172	291	
	2463	591	-2.89
	327		
	630	303	-279
	2140	342	
9-15	2482	645	-2.69

C

14-12-00
5067.592

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

1927phae.proj.063c

128

July 5 1927

9- 20.

328			II
608	280		
2155	303		
2458	583	−2.93	
372			
508	136	352	
2184	208		
2392	344	410	
		Mean = − 3.68	
1255			
1458	203		
3085	213		
3298	416	− 3.68	
1271		−3.84	
1455	178		
3102	182		
9- 26. 3284	360	−4.00	

14 −23−00

5067.599

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

1927phae.proj..663c

Sunday July 8 - 1927.

L.C obs. F.J.C. rec.

E.S.T. from Noon	☿ Ha Sep	1626×2	Var Dis.	
				I
8-36	128.2			
	1468	186		
	309.7	167		
	3264	353	-404	
	1308			
	1460	152	-425	
	3105	140		
	3245	292	-446	
	2189		Mean =	-3.88
	2412	223		
	375	227		
	602	450	-351	
	2186			
	2424	238	-352	
	370	210		
8-9-0	580	448	-352	
13 8-58-00				
5070.582				C

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

1927phae.proj.008c

July 8–1927.

	Surf–			
9–03	218.2			II
	2418	236		
	377	221		
	598	45.7	–3.47	
	218.1			
	2412	231	–3.44	
	352	236		
	388	46.7	342	
	Surf–		Mean =	–374
	309.4			
	3275	181		
	1248	200		
	1448	38.1	–3.88	
	3104			
	3263	159	405	
	1289	167		
9–08	1456	32.6	422	

14-05-30

5070.587

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

1927phae.proj..663C

July 8– 1927–

III.

	Sep.		
9–19–	1297		
	1476	184	
	3108	167	
	3275	351	–406
		341.	
	1274		
	1477	203	–405
	3113	150	
	3263	353	–404
	Sep–		Mean = –369
	2178		
	2398	220	
	350	248	
	598	468	–342
	2175		334
	2428	253	
	358	247	
9–24	605	500	327

14–21–30

5070.599

C

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

1927phae.proj - 663C

July 8 - 1927

IV

	Sud.			
9 - 41	2144			
	2404	260		
	336	286		
	622	54.6	-307	
	2178			
	2404	226	-328	
	364	218		
	582	45.4	349	
	Sud.		Mean = -3.64	
	3082			
	3280	198		
	1285	170		
	1455	36.8	395	
			399	
	3082			
	3264	182		
	1304	173		
9 46	1477	35.5	403	

14 - 43 - 30

5070.614

C

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

1927phae.proj..6636

Friday 8-9 July 1927. 12" Polar

C Φ Cygni

L.C.C. Obs + Rec. 22:01:00 Badlow = 11:01:37.5 Watch Time. Plot I.

Watch Time	Index A	Comp * (AA/SO 84) brighter + dis.		
11:15:50	13.8			
E.D.S.T.	99.8	86.0		I
reversed &	197.9	82.9		
Now of	280.8	168.9	+0.21	
Lg 8.				
pp. 133-135			+0.32	
	20.0			
	97.9	77.9		
	201.0	80.0		
	281.0	157.9	+0.42	
	B			+0.47
	108.9			
	183.1	74.2		
	290.1	72.7		
	362.8	146.9	+0.64	
			+0.63	
	112.2			
	184.9	72.7		
	289.9	75.0		
11:27:30	364.9	147.7	+0.62	

Seeing very pumpy. Though sky only hazy and bright from moonlight — no drifting clouds. Field bright — edges and prism edges easily seen.

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

1927phae.proj..663C

8-9 July 1927

	B			
11:27:50	112.1			II
	184.8	72.7		
	289.0	77.0		
	366.0	149.7	+0.58	
			+0.60	
	108.0			
	182.8	74.8		
	289.3	72.9		
	362.2	147.7	+0.62	
	A			+0.46
	196.1			
	276.0	79.3		
	17.0	77.0		
	94.0	156.3	+0.45	
			+0.32	
	195.0			
	282.0	87.0		
	15.9	82.7		
11:38:10	98.6	169.7	+0.20	

Same as I.

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

1927phae..proj..663C

8-9 July 1927

	Δ			
12:47:00	18.2			III
	98.0	79.8		
	201.0	80.5		
	281.5	160.3	+0.38	
			+0.32	
	18.1			
	98.2	80.1		
	194.1	86.2		
	280.3	166.3	+0.26	
	B			+0.47
	108.9			
	184.6	75.9		
	291.1	74.9		
	366.0	150.8	+0.56	
			+0.62	
	109.6			
	187.0	77.4		
	295.0	67.2		
12:56:20	362.2	144.6	+0.68	

Cloud passed near field during last quarter, but I believe the error was small. Photometer was removed before this group.

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

1927phae.proj - 663C

8-9 July 1927

	B			
2;11;10	293.8			
E.D.S.T.	362.1	68.3		
reduced to	112.7	69.4		
Midnight of	182.1	137.7	+0.82	
July 9 (civil)				
JJ 136+00			+0.76	
	290.2			
	364.0	73.8		
	112.6	69.6		
	182.2	143.4	+0.71	
	A			+0.52
	16.9			
	103.2	86.3		
	195.8	82.6		
	277.8	168.3	+0.22	
			+0.28	
	18.2			
	100.3	82.1		
	197.6	79.5		
2;22;50	277.1	161.6	+0.35	

Sky clear. Eye fatigued.

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

1927phae.proj..663C

8-9 July 1927

	A			
2:24:40	16.1			V
	99.7	83.4		
	197.6	77.6		
	275.2	161.0	+0.36	
			+0.30	
	18.6			
	102.9	84.3		
	195.0	82.9		
	277.9	167.2	+0.24	
	B			+0.45
	108.4			
	186.1	77.7		
	292.9	76.2		
	369.1	153.9	+0.50	
			+0.60	
	113.9			
	185.3	71.4		
	291.9	72.1		
2:34:20	364.0	143.5	+0.70	

Sky clear

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

1927phae.proj..663C

8-9 July 1927.

	B			
3:18:00	110.6			VI
	183.6	73.0		
	289.7	77.5		
	367.2	150.5	+0.57	
			+0.49	
	107.7			
	185.3	77.6		
	287.8	81.1		
	368.9	158.7	+0.41	
	A			+0.50
	197.4			
	281.2	83.8		
	20.0	78.8		
	98.8	162.6	+0.33	
			+0.52	
	200.9			
	274.7	73.8		
	25.6	70.0		
3:28:20	95.6	143.8	+0.70	

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

1927phae.proj..663C

8-9 July 1927.

	A			
3:29:00	201.1			VII
	276.3	75.2		
	20.0	76.0		
	96.0	151.2	+0.55	
			+0.42	
	196.8			
	279.0	82.2		
	17.8	82.5		
	100.3	164.7	+0.29	
				+0.51
	289.0			
	371.1	82.1		
	108.0	77.1		
	185.1	159.2	+0.40	
			+0.60	
	296.6			
	364.3	67.6		
	112.0	71.8		
3:37:50	183.8	139.4	+0.79	

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

1927phae.proj..663C

8-9 July 1927.

	B			
3:50:40	293.9			
	361.0	67.1		VIII
	110.4	74.3		
	184.7	141.4	+0.75	
			+0.72	
	291.4			
	361.3	69.9		
	111.0	74.3		
	185.3	144.2	+0.69	
	A			+0.61
	18.4			
	99.0	80.6		
	198.7	78.1		
	276.8	158.7	+0.41	
			+0.49	
	19.8			
	95.2	75.4		
	201.0	74.7		
3:58:30	275.7	150.1	+0.57	

5:07:00 Baelow = 6:07:48 Watch Time.
Bright dawn. Field bright and stars faint at end.
Thin clouds have passed over this region.
Have no confidence in the measures.

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

1927phae.proj...663C

Tuesday 11-12 July 1927.

C Q Cygni 12" Polar

L.E.C. Obs + Rec. 23:15:00 Ballou = 12:15:29.5 Watch Time. Plot I.

Watch Time	Index B	Comp * (AAVSO 84)	bright and dis.	
12:29:30	108.8			I
	184.4	75.6		
E.D.S.	293.9	70.1		
referred to	364.0	145.7	+0.66	
noon of July 11th				+0.54.
P.M. 141	107.0			
	187.2	80.2		
	290.3	78.4		
	368.7	158.6	+0.41	
	A			+0,48
	196.6			
	277.6	81.0		
	92.1	79.0		
	101.1	160.0	+0.38	
				+0.42
	201.2			
	276.0	74.8		
	19.0	80.6		
12:40:40	99.6	155.4	+0.47	

1:40:00 Ballou = 2:40:31 Watch Time.

Bright moonlight; stars faint and somewhat pimply. Light drifting clouds ~~that~~ may have reached this region. AAVSO Comparison *91 near variable seems abnormally faint – This seems worth observing.

12:53 Sky nearly covered with streaks of clouds

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

1927phae.proj.1003C

Tuesday 12-13 July 1927.

CQ Cygni 12" Polar

G.C.T. Obs + Rec Watch Time	Index B	Comp * (AAVSO 84) brightness + dis		Plot I.
2:48:20	109.8			I
	186.1	76.3		
E.D.S.T.	291.0	71.9		
reduced to	362.9	148.2	+0.61	
Midnight of			+0.60	
July 13 (civil)	114.0			
Jh. 142/145	184.9	70.9		
	293.0	67.7		
	360.7	148.6	+0.60	
	A			+0.50
	198.8			
	280.1	81.3		
	21.2	72.1		
	93.3	153.4	+0.51	
			+0.41	
	197.8			
	278.8	81.0		
	16.9	82.8		
3:00:00	99.7	163.8	+0.31	

Sky very bright and hazy, but I think no drifting clouds. I am very tired and head aches due to occultations - see 15" book.

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

1927phae.proj..663C

12-13 July 1927.

	A			
8:02:30	195.0			II
	281.0	86.0		
	16.2	83.0		
	99.2	169.0	+0.21	
			+0.42	
	199.9			
	274.9	75.0		
	21.0	73.2		
	94.2	148.2	+0.61	
	B			+0.42
	291.2			
	369.2	78.0		
	111.0	77.2		
	188.2	155.2	+0.47	
			+0.42	
	287.0			
	369.7	82.7		
	107.3	77.7		
3:15:10	185.0	160.4	+0.37	

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

1927phae.proj.0038C

12–13 July 1927.

	B			
3:19:00	292.3			
	366.0	73.7		II
	110.2	75.6		
	185.8	149.3	+0.59	
			+0.55	
	290.0			
	365.3	75.3		
	108.0	78.0		
	186.0	153.3	+0.51	
	A			+0.52
	23.5			
	94.8	71.3		
	195.0	82.6		
	277.6	153.9	+0.50	
			+0.49	
	21.0			
	98.0	77.0		
	199.8	78.0		
3:28:40	277.8	155.0	+0.48	

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

1927phae.proj..663C

12-13 July 1927.

3:35:20	19.0			
	99.8	80.8		TV
	198.0	78.8		
	276.8	159.6	+0.39	
			+0.38	
	20.0			
	97.3	77.3		
	194.9	83.9		
	278.8	161.2	+0.36	
				+0.43
	108.2			
	183.0	74.8		
	259.8	74.2		
	364.0	149.0	+0.59	
			+0.48	
	107.1			
	187.4	80.3		
	289.0	80.5		
3:46:00	369.5	160.8	+0.37	

2:56:00 Ballon = 3:56:14½ Watch Fwd.
Very tired. Tonight's observations must be given low weight, Clouds approaching this region so cannot continue

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

1927phae.proj.663c

Thursday 21-22 July 1927

H. A. h m	Dec E	Dec W	E	W
0 ; 00	+67.6	+67.6		
0 ; 15	+68.0	+67.8		
0 ; 30	+67.5	+67.8		
0 ; 45	+67.9	+67.9		
1 ; 00	+67.6	+67.7		
1 ; 15	+67.6	+67.0		
1 ; 30	+67.4	+66.1		
1 ; 45	+67.1	+65.2		
2 ; 00	+67.1	+64.1		
2 ; 15	+66.8	+63.0		
2 ; 30		+62.0		
2 ; 45		+60.8		
3 ; 00		+59.5		
3 ; 15		+58.0	Telephone mir.	
3 ; 30		+56.4	Limb telephone mirs	
3 ; 45		+54.4		-3.1
4 ; 00		+52.0		-3.1
4 ; 15		+49.1		+6.6
4 ; 30		+46.0		+7.2
4 ; 45		+42.0		+5.2
5 ; 00		+40.1		+17.0
5 ; 15		+42.1		+16.0
5 ; 30		+44.1		+18.2
5 ; 45		+42.3		+19.2
6 ; 00		+40.4		+19.2
6 ; 15		+38.2		+21.9
6 ; 30		+36.0		+23.2
6 ; 45		+33.2		+25.4

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

1927phae.proj..663C

21-22 July 1927

Sept

	E	W	E	W
7:40		+30.3		+26.8

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

1927phae.proj..663C

Sunday 24 July 1927

β I Cygni 12" Polar

This was probably read from clock face which was probably one minute fast.

L.E.C. Obs 20:22:W Ballou = 9:22:47 Watch Time. Phot 7.

Watch Time	Index B	Comp. *(+20'N)	brightness	Phot P. A.P. Sayer Rec
9 51 60				I
117.6 not used	117.6			
	175.5	57.9		
	298.9	54.3		
	353.2	112.2	+ 1.37	
			+ 1.22	
9:54 50	118.2			
	180.0	61.8		
	293.6	64.5		
	358.1	126.3	+ 1.06	
G.M.T. 13:56.3				
J.D. 2,425,086.5808	A			+ 1.06.
9 58: 50	20.7			
	95.0	74.3		
	203.2	66.8		
	270.0	141.1	+ 0.75	
			+ 0.91	
10:00 40	23.0			
	87.9	64.9		
	202.1	60.8		
	262.9	125.7	+ 1.07	

Sky slightly hazy - settings O.K.

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

1927phae.proj. 663C

24 July 1927

L.E.C. Visual Estimates:

11:50	SS Cygni	213843	(109) 4 v 2 (113).	Low power.
12:06	Z Cygni	195849	(96) 1 v 4 (102).	Low power.
12:14	RY Sagittarii	191033	> 7.3	Low power.
E.D.S.T. Noon 24 July 24			Chart insufficient. Seen through break in the tops.	
3:11	R Cygni	233815	Too bright to be observed with this telescope 8m±.	
C.D.S.T. Midnight 24 July 25 — cool.				

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

1927phae.proj,.663C

24 July 1927

L.E.C.Obs.	B			L.E.C.Rec
12:19:00	114.9			
	177.2	62.3		II
	297.1	59.2		
	356.3	121.5	+ 1.16	
			+ 1.02	
	114.2			
	182.8	68.6		
	294.0	66.0		
	360.0	134.6	+ 0.88	
G.M.T. 16: 21.9				
J.D. 2,425,086.6819	A			+ 1.10-
	201.1			
	269.2	68.1		
	25.1	63.7		
	88.8	131.8	+ 0.94	
			+ 1.18	
	210.5			
	265.0	54.5		
	29.1	56.0		
12:28:30	85.1	110.5	+ 1.41	

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

1927phae.proj..663C

24 July 1927.

	A			
12:29:W	204.8			III
	267.4	62.6		
	27.9	57.9		
	85.8	120.5	+ 1.18	
			+ 1.10	
	207.4			
	273.8	66.4		
	27.2	61.8		
	89.0	128.2	+ 1.02	
G.M.S. 16:31.2				
J.D. 2,425,086.6883	B			+ 1.085
	298.6			
	358.8	60.2		
	114.9	66.2		
	181.1	126.4	+ 1.05	
			+ 1.07	
	296.9			
	356.9	60.0		
	113.9	64.8		
12:37:W	178.7	124.8	+ 1.09	

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

1927phae.proj..663C

24 July 1927.

	B			
12:40:40	295.2			
	356.1	60.9		IV
	114.8	66.0		
	182.8	126.9	+ 1.04	
			+1.04	
	295.1			
	358.3	63.2		
	116.0	64.0		
	180.0	127.2	+ 1.04	
G.M.T. 16: 43.2				
J.D. 2,425,086.6967	A			+ 1.12-5
	28.0			Mean for evening
	87.2	59.2		+1.090 M+4
	207.9	61.2		
	269.1	120.4	+ 1.18	
			+1.19	
	24.9			
	88.2	61.3		
	208.3	58.5		
12:49:20	266.8	119.8	+ 1.20	

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

1927phae.proj..663C

EST
(Vroom)

Monday July 25 1927

1927- F.T. Cyrec.

L.C. obs.

8-28 SS Cygni 210843 Est. 11.7

R Scuti 184205 ~~Est~~

* F with * ~~B~~. F disappears = brighter.

8 04 B

2892
3636 744
1086 771
1857 1515 -055

2919
3594 575 082
1118 670
1788 1245 -110

A-
226 mean = 049
1006 780
2010 805
2815 1585 -041

148
1036 888
1888 952 -016
8 38 2840 1840
1760 + 008

13-56-00

5087.581

E

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

1927phae.proj.663C

July 25 – 1927

R Sucti mik 7.1 Var de.

- B -

9-02	3020		
	3655	635	
	1190	628	
	1818	126.3	-106
	2002		
	3562	560	116
	1213	609	
	1822	1169	126
	9		Mean – 092
	247		
	986	739	
	2102	666	
	2768	1405	076
	275		067
	978	703	
	2033	797	
9-06-	2830	150.0	058

14-04-00

5087.586

C

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

1927phae.proj..663C

July 25 - 1927 -

R. Del.	201008	~~Est 13.5~~
W X Cyg.	201437b	Est 12.5
S. Y Aqu	0201212	Est 12.6
Z Del	202817	Est 12.2
9-43- ST Cyg	202954	Est 12.0

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

1927phae.proj..663C

July 25, 1927

12" Polar

Baelow clock fast = 00:16:00 incorrect 1m

E. E. C. Obs + Rec 00:15:00 Baelow = 01:15:36.5 Watch Time. Plot I.

Watch Time	Index B	Comp * (20' ± Vexactly) brightness		
1:33:00	164.3			
	224.6	60.3		I
	346.2	58.8		
	405.0	119.1	+ 1.21	
			+ 1.02	
	161.2			
	233.3	72.1		
	341.3	65.1		
	406.4	137.2	+ 0.83	
A.M.T. 17:38:1	A			+1.15
J.D. 2,425,087.7349	257.4			
	318.1	60.7		
	72.2	63.7	+ 1.10	
	135.9	124.4		
			+ 1.28	
	260.9			
	315.0	54.1		
	78.3	54.2		
1:44:40	132.5	108.3	+ 1.46	

Stars faint and jumpy. Slightly hazy - very hazy or cloudy low horizon.

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

1927phae.proj..663C

July 25, 1927

	A			
1:48:40	256.9			
	313.8	56.9		II
	75.7	59.86		
	135.3	116.75	+ 1.27	
			+1.10	
	252.7			
	318.8	66.1		
	72.5	66.3		
	138.8	132.4	+ 0.93	
D.M.T. 17:54.2	B			+1.0716
J.D. 2,425,087.7460	340.2			
	408.0	67.28		
	165.0	63.0		
	228.0	130.28	+ 0.976	
			+1.04	
	343.0			
	406.2	63.2		
	143.7	61.2		
2:01:00	224.9	124.4	+ 1.10	

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

1927phae.proj.663c

July 25, 1927.

	B			
2;04;20	339.8			III
	405.3	65.5		
	164.4	61.6		
	226.0	127.1	+ 1.04	
			+1.00	
	343.0			
	408.9	65.9		
	163.1	64.9		
	228.0	130.8	+ 0.96	
G.M.T. 18:08.6	A			+1.14.
J.D. 2,425,087.7560	73.4			
	135.8	62.4		
	257.1	63.5		
	320.6	125.9	+ 1.07	
			+1.28	
	79.4			
	132.1	52.7		
	260.2	53.7		
2;14;10	313.9	106.4	+ 1.50	

Stars appear very faint.

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

1927phae.proj.663C

July 25, 1927.

	A			
2:21:W	82.2			IV
	135.8	53.6		
	255.8	57.3		
	313.1	110.9	+ 1.40	
			+1.24	
	74.3			
	135.9	61.6		
	252.7	64.2		
	316.9	125.8	+ 1.07	
D.M.S. 8:27.8	B			+1.10.
J.D. 2425087.7693	142.2			
	232.3	70.1		
	343.2	67.6		
	410.8	137.7	+ 0.82	
			+0,97	
	165.0			
	226.5	61.5		
	344.3	61.7		
2:35:60	406.0	123.2	+ 1.12	

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

1927phae.proj. 663C

July 25, 1927.

	B			
2:41:40	168.1			
	229.6	61.5		V
	343.1	64.9		
	408.0	126.4	+ 1.05	
			+1.00	
	164.6			
	227.9	63.3		
	341.0	68.0		
	409.0	131.3	+ 0.95	
S.M.T. 18:46.5	A			+1.12
J.D. 2,425,087.7823	255.0			Mean for evening
	320.8	65.8		+1.116 wt 5
	74.2	61.7		
	135.9	127.5	+ 1.03	
			+1.24	
	256.6			
	311.6	55.0		
	79.3	53.7		
2:52:30	133.0	108.7	+ 1.45	

It is now too hazy to continue further.
This group was made under increasing difficulties
Decl. +37.7
2:19:00 Bachov = 2:19:40 Watch Time.
(Face of Bachov read 2:20:00)

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

1927phae.proj..663C

Wednesday 27 July 1927.

C 9 Cygni 12" Polar

L.E.C. Obs+Rec (Face + Signals) 23:40:00 Ballon = [11h 0:40:49 Watch Line] Plot I

Approx. E.S.T.	Index B	Comp *[A AVSO 54] brightn + dis		
11h + 0:58:20	160.4			
=	230.6	70.2		
11:58:20	338.1	73.1		
E.S.T. from noon of July 27	411.2	143.3	+ 0.71	
			+ 0.64	
	158.2			
	231.1	72.9		
	337.9	78.1		
	416.0	151.0	+ 0.56	
8.m.S. 17:02.6	A			+ 0.48.
J.D. 2,425,089.7101	247.0			
	328.8	81.8		
	66.8	81.3		
	148.1	163.1	+ 0.32	
			+ 0.33	
	243.9			
	328.7	84.8		
	67.2	77.4		
11h + 1:08:30	144.6	162.2	+ 0.34	
= 12:08:30				

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

1927phae.proj.663C

July 27, 1927

	A			
$11^h+1:11:00$	246.3			II
$=12:11:00$	326.2	79.9		
	67.2	78.4		
	145.6	158.3	+ 0.41	
			+0.32	
	245.0			
	328.8	83.8		
	62.7	83.6		
	147.3	167.4	+ 0.24	
D.h.1 17:15.4	B			+0.43.
J.D.2,425,089.7190	337.1			
	414.3	77.2		
	155.1	75.9		
	231.0	153.1	+ 0.51	
			+0.54	
	337.5			
	360+410.9	73.4		
	155.9	77.1		
$11^h+1:21:30=$	233.0	150.5	+ 0.57	
$=12:21:30$				

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

1927phae.proj..663C

July 27, 1927

	B			
$11^h+1:24:20$	340.8			III
$=12:42:20$	54.2	73.4		
	158.0	73.2		
	231.2	146.6	+ 0.64	
			+0.58	
	340.0			
	56.0	76.0		
	158.0	76.7		
	234.7	152.7	+ 0.52	
G.M.S. 17:28.3	A			+0.445
J.D. 2,425,089.7280	65.0			
	148.0	83.0		
	244.8	83.3		
	328.1	166.3	+ 0.26	
			+0.31	
	65.0			
	146.2	81.2		
	245.2	80.0		
$11^h+1:34:00=$	325.2	161.2	+ 0.34	
12:34:00				

Very slow moving diffuse haze or smoke, about one magnitude thick.

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

1927phae.proj..663C

July 27, 1927.

50

	A			
$11^h + 4:44:00 =$	65.0			IV
12:44:00	146.0	81.0		
	247.9	75.8		
	323.7	156.8	+ 0.44	
			+0.40	
	65.6			
	146.0	80.4		
	249.8	81.4		
	331.2	161.8	+ 0.35	
Sgm. J.				
$17^h : 49.4$	B			+0.52 -5
J.D. 2,425,089.7426	234.0			
	145.9	68.1		
	333.6	80.4		
	" 54.0	148.5	+ 0.60	
			+0.64	
	162.8			
	233.9	71.1		
	339.0	74.0		
$11^h + 1:56:30 =$	" 53.0	145.1	+ 0.67	
12:56:30				

This group greatly bothered by drifting haze. Stars invisible at times. This group to be used only as a check on effect of haze.

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

1927phae.proj..663C

July 27, 1927.

	B			
$11^h+2:29:50=$	160.0			IV 2
$(3:29:50$	231.0	71.0		
	343.0	67.2		
	50.2	138.2	+0.81	
			+0.62	
	155.5			
	231.2	75.7		
	336.2	81.8		
	58.0	157.5	+0.43	
B.A.U. 18; 34.2	A			+0.50
J.O.2, 425, 689.7738	251.0			
	329.0	78.0		
	66.7	81.3		
	148.0	159.3	+0.39	
			+0.38	
	244.2			
	328.0	83.8		
	68.4	77.4		
$11^h+2;40;10=$	145.8	161.2	+0.36	
$(3;50;10$				

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

1927phae.proj.663C

July 27, 1927.

	A			
$11^h + 2:43:50 =$	243.0			
$13:43:50$	323.3	80.3		V
	61.2	83.7		
	144.9	164.0	+0.30	
			+0.26	
	246.4			
	327.4	81.0		
	63.0	87.2		
	150.2	168.2	+0.22	
G.M.T. 18:47.8	B			+0.39
J.D. 2,425,089.7832	557			
	333.6	82.1		
	157.0	74.4		
	231.4	156.5	+0.45	
			+0.52	
	339.0			
	54.6	75.6		
	159.9	74.1		
$11^h + 2:53:20 =$	234.0	149.7	+0.58	
$13:53:20$				

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

1927phae.proj..663C

July 27, 1927.

	B			
$11^h+2{:}55{:}00=$	338.4			VI
13:55:00	51.1	72.7		
	154.4	83.6		
	238.0	156.3	+0.45	
			+0.44	
	338.3			
	57.2	78.9		
	154.7	79.3		
	234.0	158.2	+0.42	
G.M.S. 18:58.2	A			+0.43
J.P. 2,425,089.7904	64.0			
	147.0	83.0		
	247.8	78.0		
	325.8	161.0	+0.36	
			+0.42	
	67.1			
	145.0	77.9		
	247.1	76.6		
$11^h+3{:}03{:}10=$	323.7	154.5	+0.49	
14:03:10				

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

1927phae.proj..663C

July 27, 1927.

	A			
$11^h+3:06:20$	69.8			
$14:06:20$	146.2	76.4		VII
	248.6	75.3		
	323.9	151.7	+0.54	
			+0.40	
	68.0			
	148.8	80.8		
	242.2	85.9		
	328.1	166.7	+0.25	
				+0.~~51~~ 49
G.M.S. 19: 10.6	B			
J.D. 2,425,089.7990	155.9	9		
	235.0	7~~5~~.1		
	339.0	75.8		
	54.8	15~~0~~.9 4	+0.~~56~~ 48	
			+0.~~62~~ 58	
	159.0			
	234.0	75.0		
	346.9	69.1		
$11^h+3:15:30$	50.0	144.1	+0.69	
$14:15:30$				

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

1927phae.proj..663C

July 27, 1927.

	B			
11h+3:17:30	162.0			
14:17:30	234.7	72.7		VIII
	338.9	73.8		
	41 52.7	146.5	+0.64	
			+0.63	
	160.0			
	231.8	71.8		
	339.0	75.9		
	41 54.9	147.7	+0.62	
G.M.T. 19:21.8	A			+0.58
J.D. 2,425,089.8068	247.9			
	324.7	76.8		
	64.2	78.9		
	143.1	155.7	+0.46	
			+0.53	
	246.8			
	322.3	75.5		
	70.9	73.1		
11h+3:27:50	144.0	148.6	+0.60	
14:27:58				

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

1927phae.proj..663C

July 27, 1927.

	A			
$11^h+3:37:20$	246.0			
$14:37:20$	325.0	79.0		I X
	69.3	72.7		
	142.0	151.7	+0.54	
			+0.36	
	243.1			
	328.8	85.7		
	64.0	84.6		
	148.6	170.3	+0.18	
8.9m.S. 19:35.2	B			+0.46 -5
J.D.2,425,089.8161	336.2			
	51.0	74.8		
	156.0	79.2		
	235.2	154.0	+0.50	
			+0.55	
	337.8			
	53.0	75.2		
	162.3	73.6		
$11^h+3:40:40$	235.9	148.8	+0.60	
$14:40:40$				

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

1927phae.proj..663C

July 27, 1927.

	B			
$11^h+3:43:10$	341.0			V
$14:43:10$	55.8	74.8		
	161.0	72.2		
	233.2	147.0	+0.63	
			+0.50	
	333.7			
	56.2	82.5		
	157.7	77.3		
	235.0	159.8	+0.38	
G.M.T. 18:47.2	A			+0.40:
J.D.-2,425,089.8244	62.1			Mean for evening
	146.3	84.2		+0.461 wt 10
	245.9	82.0		
	327.9	166.2	+0.26	
			+0.31	
	70.0			
	147.0	77.0		
	244.8	84.2		
$11^h+3:53:00$	329.0	161.2	+0.36	
$14:53:00$				

4:00:00 Ballou = [$11^h+5:00:53$] Watch Time

A very little haze was noted during last two groups; particularly last group.

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

1927phae.proj..663C

Thurs July 28/1927

EST L.C.Obs 12" Polar

from Noon

δ Sgr SSCyg 21384 est √11.6 hazy

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

1927phae.proj..663C

5th Monday. Sep 5. 1927

EST 12" Polar

from noon.

Note. Circles stick badly. have them seen to.

7.30	SS Cyg.	213843	11.9
8.00	R Cyg	193449	13.3
8.14	RV aquil	193509	9.9
8.20	SY Cyg	194232	10.2
8.40	TV Cyg	194348	< 13.0
9.10	X aquil	194604	< 12.7
9.25	X Cyg	194632	12.3

P

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

1927phae.proj..663C

Wed Sept 14/1927

Mirror of 12" reinbored
and replaced today.

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

1927phae.proj..663C

Friday Sept 23 1927

L.C. obs.

7-11	δ Cygni	213843	East 11:7
	V Lac.	224455	
	X Lac	224555	Comp * dis
	χ with	comp *	
7-35:40	205 5		
	2315	260	
	244	286	
	330	546	+307
	2022		278
	2362	340	
	182	365	+249
	347	705	
	-a-		Mean = 271
	2927		
	3250	323	
	1097	358	
	1455	681	257
	2912		
	3227	315	264
	1133	323	
7 3945	1456	638	272
7 37 40			
5147 528	X the brightest of 2 Vars		

12-37-42

5147.526

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

1927phae.proj.663C

Sept 23 – 1927

	V Loc	mich	Comp ✳	L.
7-43 00	297.2[a]		" " do	
	3178	206		
	1148	232		
	1380	438	+357	
	2975			
	3146	171	+388	
	1186	158		
	1344	329	420	
	V B		mean = + 392	
	27.7			
	450	173		
	2084	190		
	2274	363	398	
	26.5		395	
	436	171		
	2074	203		
7- 48 15	2277	374	392	C
12 45 15		h m		
5147.532	Comp ✳ = ✳ ◎	22 43.9	+ 35° 10"	(1855)

Sky too murky to continue

8:00 Observations in these 2 groups very difficult

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

1927phae.proj...663C

Nat Sept 24/1927

12" Polar LC Obs

E.S.T.

11 0 0 SS Cyg 21 38 43 est 11.9

6 50

R X And 00 57 40 est

X Pac 22 45 5

V Pac 22 45 5 Phot T.

19 20

3 25 E

Finder B

V Pac (Southern Var)

7 10 00 192

229.7 Comp X Aqi

12.8 395

64.2 354

196.3 227 + 242

230.2 339 + 2.56

17.3 301

47.4 640 + 2.71

Finder A Mean = + 2.72

289.3

316.2 269

108.4 272

135.6 541 + 3.10

+ 2.89

286.6

319.2 326

7 17 10 106.2 322

7 10 - 138.4 648 + 2.68

12 13 35 5148.5 12

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

1927phae.proj.663C

178

Sept 24/1927

~~Lac~~ Lac .224455 (Bartholomew)
Index Corr + dis

7 23.00 285.6 II
313.3 277
107.8 278
135.6 555 + 3.04

~~288.6~~
316.2 276 + 307
108.6 264
135.0 540 + 310

B Mean = + 300

12.7
45.0 273
198.4 280
226.4 553 + 304

17.0 294
45.6 286
198.8 318
230.6 604 + 284

7 29.0

12 26 00

5148.518

E

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

1927phae.proj..663C

Sept 24/1927

X Zac (Norton)

> 3005

	B	
15.0		
43.3	283	I
	319	
197.7	602 + 285	
229.6		
13.2		
~~200~~		+ 2.92
46.1	329	
201.0	239	
224.9	568 + 298	

A	
105.8	Mean = 2.96
134.6	288
291.0	260
315.0	528 + 315
105.9	
135.6	297 + 3.02
288.4	302
318.6	599 + 286

7 3610

12 3300

5148.523

C

Both vars about equally bright.

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

1927phae.proj..663C

Sept 24/1927

X Lac II Northern Var

a

7 53 10

104.7		
136.3	31.7	
287.8	246	
312.4	563	+ 300
		320
110.8		
133.3	225	
289.8	248	
314.6	473	+ 340

B

Mean = + 300

199.6		
226.8	272	
18.3	267	
45.0	539	+ 311
198.2		+ 2.8
229.2	310	
132	340	
472	650	+ 248

7 58 50

7 56 00

12-56-00

5148.539

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

1927phae.proj..663C

Sept 24/1927

	V Lac	III	Southern Var
	B		
8 00 00	195.5		
	231.0	315	
		371	
	12.3	326	+ 2.42
	49.4		
	+		
	198.2		+ 2.66
	226.3	281	
	17.4	312	
	48.6	59.3	+ 2.89
	A		
			Mean = + 2.78
	107.2		
	134.8	326	
	289.4	264	
	315.8	590	+ 2.90
	104.8		+ 2.89
	137.4	326	
	289.2	268	
	316.0	594	+ 2.88
05 00			
02 30			
			C

13-02-30

5148.543

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

1927phae.proj..663C

Sept 24 1927

V Fac

8 26 20

105.8
136.6 30.8
289.6 290
318.6 598 +287

1044 +278
140.4 360
287.2 290
316.2 650 +268

Mean = +284

B

1988
225.0 262
284
160 546 +307
446.4

+2.89

1972
328
2360
150 312
462 640 +271

8 31 30
57 50

V 13-28-55
5148.562

C

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

1927phae.proj..663C

Sept 24, 1927

X Lac III

B

8 32 15 1980

2272 292

177 305

48.2 597 + 287

195.3

2294 341 + 2.80

172 291

46.3 632 + 2.74

a

2875

3158 300

1042 316

1358 616 + 280

~~20~~

2918 + 3.06

3148 230

1086 256

486 + 333

8 37 10 1342

~~8 33 25 42~~

13-34-42

5148.566

mean = +2.93

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

1927phae.proj..663C

Sept 24/1927

X Pac ✓

IV

a

9 06 40 2894

3137 243

352

1077 596 +3.29

1330

2898 +3.13

3159 261

1048 310

1358 571 +2.97

B

Mean = +3.08

1982

2277 295

154 304

458 599 +2.86

2008 +3.04

2256 248

172 266

9 12 15 438 514 +3.21

9 09 28

14-09-28

5148.590

E

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

1927phae.proj..663C

Sept 24/1927

V Vac

β

9 13 00

1933

230.4 371

14.8 302

45.0 67.3 +2.60

+2.53

198.4

23.8 374

13.7 341

49.8 71.5 +2.46

Mean = +2.76

209.8

316.4 266

107.4 284

135.8 550 +3.06

288.4 +2.98

317.4 290

106.3 299

9 18 10 136.2 589 +2.90

31 10

9 15 35

14-15-35

5148.594

Ci Watch used = 0 sec. error

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

1927phae.proj..663C

E.S.T. Mon

Monday Sept 26 1927

L.C. obs

L.C. pec

6-58. S.S. Aqui 213843 Est 11.8

U. Lac 22455 5 Southern

+ Lac 22445 5 Northern

plot I

X Lac B Comp + obs

7-03 15 1950

2338 388

144 332

476 72.0 +2.44

2016

2218 202 +2.98

192 246

438 448 +3.52

a

2866 Mean 25.8

3186 320

1005 445

1450 76.5 2.30

2822

3246 424 +2.18

984 424

7-07 30 1408 848 2.06

7 05 22

2 5 22

5150. ~~504~~ 503

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

1927phae.proj..663C

Sept 26 - 1927

U Lac

7-08-05 V

a

2864

3182 318

1090 276

1366 594 288

2903

1118 246 1418 215 uncertain 302 ~~268~~

1364 1364 490

2854 282 2854 705 249

3136 538 3.15

assume this B 322

readings. ~~2136~~ Mean = ~~345~~

2033

2228 195

198 246

444 441 +.355

2024 +342

2274 250

180 243

7-1318 423 493 330

2115

2 10 38

5150.508

~~reject this group~~

~~not up in readings~~ Recording

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

1927phae.proj..663C

Sept 26 - 1927

X Lac - B

II

7 - 15 : 45.

200.0		
2282	282	
155	290	
445	572	+297
1976		
2258	282	+295
159	299	
458	581	+293

A.

Mean = +290

2877		
3178	301	
1076	300	
1376	601	+286
2873		264
3208	335	
1023	393	
1416	728	242

7 - 20 10

35 55

12 17 38

5150.512

E

1927phae..proj..663C

Sept 26 - 1927

	V. Lac.			II
	A.			
7 - 21.05	2874			
	3136	262		
	1077	266		
	1343	328	+315	
	2908			
	3128	220	+340	
	1136	204		
	1340	424	364	
	B		Mean =	347
	240			
	452	212		
	2005	251		
	2256	463	+344	
	2103			
	414	201	+354	
	2624	222		
7 - 25.25	2246	423	+364	

12 23 15

5150.516

E

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

1927phae.proj..663C

Sept 26 - 1927

	V Lac			III
	18.			
7-33.0	126			
	478	352		
	1968	328		
	2296	680	+237	
	14.7			
	462	315	278	
	2006	252		
	2258	567	+299	
	A.		mean = +272	
	2872			
	3162	290		
	1053	306		
	1359	596	287	
			266	
	2866			
	3217	351		
	1036	362		
7-37.5	1398	71.3	246	
12 35 12				
5150.524				

C

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

1927phae.proj..663C

Sept 26 - 1927 -

7 38 25 V Lac A III

2909		
3126	217	
1064	276	
1340	493	+330
2898		+335
3114	216	
1098	255	+340
1353	471	
B		Mean = +351
198		
433	235	
2034	203	
2237	438	+357
206		
396	190	+367
2012	210	
2222	400	+377

7-4330

~~1~~ 55

12 40 67

5150.528

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

1927phae.proj..663c

Sept 26 - 1927.

	V Loc			IV
	13			
7-51:30	16 6			
	466	300		
	1975	317		
	2292	617	+280	
	178			
	478	300	+266	
	1977	393		
	2300	693	+253	
	a		Mean +275	
	1076			
	1355	279		
	2888	270		
	3158	549	+307	
			+284	
	1026			
	1355	329		
	2858	336		
7-55:35	3194	665	+262	
(2 53 32				
5150.537				

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

1927phae.proj..663C

Sept 26 - 1927

IV

δ Lac

A

7:57-00	1086		
	1358	272	
	2866	284	
	3150	356	+303
	1096		
	1312	216	+334
	2908	208	
	3116	424	+364

B

Mean = 334

	2012		
	2248	236	
	188	263	
	451	499	+328
	1992		
	2226	234	337
	198	242	
8:01 20	440	476	338

12 59 10

5150.541

E

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

1927phae.proj..663C

Sept 26 - 1927 -

	VZ Cyg.	21742.	Phot	
	B		Comp * dis	+
8 — 2800	67.2			
	1602	930		
	2478	964		
	3442	894		
		190.6	− 018	
	698			
	1692	994		
	2438	1044	− 032	
	3482	2038		
		175.2	− 045	
	A.		Mean = − 014	
	1602			
	2566	964		
	3398			
	1684	886		
		185.0	− 009	
		175.0		
	1604			
	2498	894	+ 004	
	3458	816		
8 35:40	674	171.0	+ 017	

13-31-50

5150.564

Do not use
this & two following
use with phot
comp *.

1927phae.proj..663C

Sept 26 – 1927

II.

A.

8-48-30

692
1598
2526
3472

906
956
1862
1238

van dus

+ 0.12

772
1070
2598
3378

798
780
1578

– 0.15

– 0.42

B.

~~2440~~
3490
740
1668
2458

850
790
1640

Mean = – 0.28

– 0.30

3502
646
1668
2533

744
865
1609

8-55-10

– 0.33

– 0.36

13-52-00

5150.578

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

1927phae.proj..663C

Sept 26 - 1927

	Vβ.			III
9-8 50	3446			
	4346	900		
	1616	882		
	2498	1782	-003	
	3508			
	4264	756	-027	
	1668	476		
	2444	1532	-051	
	-A-		mean = ∓ 020	
	786			
	1598	812		
	2598	835		
	3433	1647	∓029	
	748			
	1588	840	014	
	2516	962		
9-14 10	3478	1802	+ 001	
		1798		

14-11-30
5150.592

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

1927phae.proj..6636

Sept 26 -1927-

	γ Lac.	220550		I
9-35-20	V 18		Comp* dis	
	1974			
	2168	194		
	156	182		
	338	376	+391	
	1978			
	2156	178	+398	
	178	174		
	352	352	+405	
	9		mean = 395	
	2892			
	3050	158		
	1074	171		
	1245	329	+420	
	2865			
	3082	217	+392	
	1048	205		
9 40 00	1253	422	+365	

14-37-40

5150.610

E

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

1927phae.proj.663C

Sept 26 - 1927.

	②			II
9 50 40	1964			
	2148	184		
	152	170		
	322	354	404	
	1976			
	2146	170	410	
	178	164		
	342	334	417	
	④		Mean = 407	
	2902	140		
	3042	157		
	1086		442	
	1243	297		
	2863			
	3082	219	404	
	1040	202		
9 - 54 30	1242	421	365	

Comp * = * @ 22 5.7 + 50° 8'

14-52-35

5150.620

E.

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

1927phae.proj..663c

Tues. Sept 27/(27)

ZC Obs (2" Polar

> 45 Cleared suddenly

8 00 SSCyg 213843 ext 119

V Loc 224555

X Loc 224455

Phot I.

X Loc (B) comp * obs

8 09 15 8.8 I

422 334

190.6 336

224.2 67.0 + 261

13.0

43.6 306 + 2.68

192.6 327

225.3 633 + 274

A

98.8 Mean = +2.62

133.6 342

284.6 297

314 63.9 + 272

98.4

133.2 348 + 2.56

240.3 343

8 14 40 318.6 731 + 241

23 55

13-11-26

5151.550

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

1927phae.proj..663C

200

Sept 27/1927

	v Pac	A	Comp & dis
8 16 00	106.2		I
	126.3	20.1	
	287.6	286	
	311.2	43.7	+35.7
	107.6		+3.6/2
	126.3	187	
	287.2	194	
	306.6	38.1	+38
	B		Mean = +37
	190.8		
	216.3	18.3	
	15.6	186	
	342	369	+39.5
	197.8		
			+38.2
	218.4	206	
	16.0	206	
8 20 35	36.6	412	+37.0
8 18 18			

13 -18 -18

5151.554

E.

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

1927phae.proj..663c

Sept 27/1927

	V fac	D		II
δ 3945	3360			
	3517	157		
	1570	170		
	1740	327	+ 4.21	
	3328			
	3566	238	+ 3.84	
	1562	206		
	1768	444	+ 3.54	
	A			
	63.3		Mean = +3.71	
	85.2	21.9		
	2432	250		
	2682	469	+ 3.41	
	62.4		+ 3.54	
	84.8	224		
	2446	192		
δ 4545	2638	41.6	+ 3.68	
δ 4245				

13-42-45

5151.572

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

1927phae.proj..663C

Sept 27/1927

x Pac — A — II

8 46 30

57.6
58.8
240.8
271.2

52.2
89.6
236.2
280.4

B

147.2
181.8
328.8
358.4

149.8
180.8
331.3
357.2

30.2
304
60.6 + 2.84

+ 2.50

374
442
816 + 2.15

Mean = + 2.67

346
296
642 + 2.71

+ 2.84

310
259
569 + 2.78

8 51 50

8 20
8 49 10
13-49-10
5151.576

E

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

1927phae.proj..663c

Sept 27/1927

VZ Cyg 21+42 Photo I

B Comp * dis I

9 32 40 ~~9~~ 224 δ

289 δ 650

616

442 1266 + 1.05

105 δ

218 3 + 0.84

294 3 760

41.3 719

113.2 1479 + 0.62

A Mean = 0.9δ

318 0

374 δ 568

556

135 δ 1124 + 1.36

191.4

3146 + 1.12

381.3 667

127 δ 684

9 38 45 197 2 1351 + 0.87

Comp * = Star to South of Var.

~~Bright than~~ ~~not~~ of Sept 26

14 - 35 - 22

5151.608

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

1927phae.proj..663C

Sept 27/1927

~~186~~ VZ Cyg.

q 46 40 ~~319.2~~

~~3824~~

~~1402~~

~~188.8~~ B Var dis

Save comp* as on Sept 26

q 52.0 315.2

3820

1322

2622

668

700

1368 +044

3098

3806

1324

1966

A

608

642

1250 + 088 ·086

Mean = 076

3540

1130

2156

2952

780

796

1576 +0743

Repeat this on p 194

14-54-45

5151.622

q 57.30

112

1092

2246

2904

680

658

1338 +0.66 +0.90

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

1927phae.proj..663c

Sept 27/1927

V Z Cyg

2 cond ~~x~~ together

1010 Cell cloudy

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

1927phae.proj..663C

Wednesday Sept. 28 - 1927

7- 21-	χ Aqui	213843	Est 11-8	I
	χ Lac.	224455	Phot. P.	
	ν Lac.	224555		
	13 χ Lac.		Comp & Dis	
7-25 30	1584			
	1848	264		
	3404	254		
	3658	318	+319	
				288
	1548			
	1894	346	Mean = +	~~288~~
	3346	336		276
	3682	682	257	
	a			
	2450			
	2775	325		
	642	364		
	1506	689	234	
	2470			
	2782	312	264	
	646	320		
7-29 25	966	63.2	274	
12 27 28				
5 15 25 19				

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

1927phae.proj..663C

Sept 28- 1927

	V Lac a	Comp ✱ dis	II
7 30 40	250.2		
	2714	212	
	706	237	
	943	449	351
	2562		
	2722	160	374
	724	204	
	928	364	398
	B		Mean = +383
	3426		
	3594	168	
	1633	182	
	1815	350	406
	3398		
	3598	200	+392
	1636	198	
7-34 05	1834	398	378

12 32 22

7352.522

E - .525

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

1927phae.proj..663C

Sept 28 - 1927.

	~~V~~ Lac			+
7-45 10	B.			
	3400			
	3588	188		
	1632	204		
	1836	392	+381	
	3420			
	3588	168	+396	
	1625	173		
	1798	341	+412	
	A		Mean = +397	
	~~880~~			
	720			
	878	158		
	2542	100		
	2692	308	+435	
	697			
	928	231		
	2514	203		
7-55 05	2717	434	359	

12 sb 0f
5152.535

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

1927phae.proj..6636

Sept 28 - 1927 -

	~~X~~ Lac			H
	α			
7-56m	662			
	952	290		
	2510	238		
	2768	548	+3.07	
	640			
	1012	372	+273	
	2478	364		
	2842	786	+239	
	Vβ		Mean	278
	1538			
	1912	354		
	3348	352		
	3700	706	+249	
	1588			
	1852	264	+282	
7-59145	3400	262		
~~8-00~~	3662	526	+316	
7 51 52				
(12 5) 52				
5752.5560				

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

1927phae.proj..663C

Sept 28 – 1927

	v Z Agg	214742	I.
	B		Variable dist
8 – 1005	1304		Compt of Sept 26
	2120	816	
	~~3246~~	936	
	~~4044~~	1752	+009
	3108		
	4044		
	1300		+038
	2126	826	
	3208	626	
	3834	1452	−067
	9		Mean = −048
	2275		
	2948	773	
	~~4078~~	672	
	478	1445	−068
	1150		
	2200		
	3005	805	−058
	452	748	
8 – 1530	1200	1553	−047
25 31			
8 12 4f			
13 12 4f			
5152 = 5f			

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

1927phae.proj..663C

Sept. 28 - 1927 -

	V Cyg	~~α~~ β	Comp * dis	~~II~~
8-28 30	5578	Brighter	comp * selected	9/28/27
	1098	590	to South * Var.	
	2332	690		
	2922	1180	+124	I
	5502		+111	
	1152	650		
	2320	648		
	2968	1298	+098	
	~~β~~	α	Mean	110
	1382			
	2050	668		
	3182	699		
	3881	1367	082	
	1427			
	1987	560	+109	
	3272	564		
8-34 10	3836	1124	136	
13 31 20				
5515.563				

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

1927phae.proj..663C

Sept 28 — 1927

R	a			H
8 41 15	1380			
	1988	608		
	3208	664		
	3872	1272	#104	
	1378			
	2078	700	+090	
	3186	709		
	3895	1409	+076	
	B		Mean = 095	
	2236			
	2990	754		
	466	706		
	1172	1460	065	
	2348		100	
	2892	544		
	498	390		
8-46 10	1088	1134	134	
> 25				
13 F3 42				
Troubled by clouds				
5'15"2.5"72				

C

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

1927phae.proj..663C

Thursday Sept 29 - 1927

Lobo.

7-21-.	RLCygni	213843	Est: 118
	VLac	224455	
	XLac.	224455	
	Nouchem variable X Lac		
	Sud-B		Comp x
7-2400	1572		
	1872	300	
	3341	325	
	3666	625	277
			Mean = +290
	1638		318
	1848	210	
	3489	224	
	3633	434	359
	a		
	2502		
	2780	278	
	651	324	
	975	602	285
	2458		
	2777	319	272
	637	359	
7-2820	996	678	258
12 26 35	Sept.		
5153.519			

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

1927phae.proj..663C

Sept 28/9 1927

28

Southern Variable V Lac

9 ~~28~~ 50

A.

2466	Comp	− dif
2800	334	
655	352	
1007	686	+255

2478		
2747	269	+284
722	266	
988	535	3.12

B.

Mean = +286

3396		
3642	246	
1592	276	317
1868	522	~~340~~

3382		
3643	361	287
1577	319	
1896	680	257

7-3245
12 30 48 GMT

C

Sky too poor to continue

5153.522
9-40 advantage

thank goodness

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

1927phae.proj.663C

E S T

Stat Oct 1/1927

Room LC Obs 12" Polar

6 50 SS Cygni 213 fk3 ext 11.9

V Lac 2240-51⁻ Phot T.

X Lac 2244-51⁻ X Lac

B

>0310. 338.6 <comp & dn I

362.2 23.6

154.7 291

183.8 527 + 315⁻

338.0 + 3.33

365.0 220

159.4 210

180.4 450 + 351

A Mean = + 3.30

6>8

88.2 206

246.4 288

275.2 494 + 331

Z

66.3 + 328

92.2 25.9

247.6 246

709 30 272.2 505 + 325

1206 20 310

E

5155.504

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

1927phae.proj..663C

Oct 1/1927

V Lac

7 10 45 — A

62.3 ✓
90.6
244.8
272.2

65.8
92.2
245.5
274.2

B

158.6
181.2
336.3
359.8

157.2
184.0
336.0
359.6

7 15 30

12 13 of SNT

15 5

7155.509

cond * dis. I

283
274
557 + 303

264 + 304
287
551 + 306

Mean = + 3.20

226
295
521 + 346

+ 336

268
236
504 + 325

E

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

1927phae.proj..663C

Oct 11 1927

~~Vlac~~

VZ Cyg B 21 47 42 I

+6300 232.4 < Comp * dii Phot T.
287.6 65.2
52.2 57.2
109.4 122.4 +1.14

224.4 +1.17
289.6 65.2
48.6 54.6
103.2 119.8 +1.20

A

320.0 Mean = +1.22
376.6 56.6
137.6 60.6
198.2 117.2 +1.25

320.2 +1.26
376.6 56.4
138.6 60.6
+50.10 199.2 117.0 +1.26

13-46-35
5155.574

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

1927phae.proj..663C

Oct 1/1927

V Z Cyg 21h 7m 4s

a

II

7 00 clds

7 30 All cloudy

B

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

1927phae.proj..663C

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

1927phae.proj..663C

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

1927phae.proj..663C

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

1927phae.proj..663C

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