X ✓

BK Aqr 21 07 25 -05 12 9-9.5 209

BD-5° 5482

11 Aug
19
9 Sept
12
2 Oct
23 Oct
3 Nov

18 Aug
22
18 Sept
20 Sept

		28	02		30.5	
V 417 Aql	19	30	29	+05	37.1	
		33	06		43.5	1950
			36		44.8	1960
II -11.5	6 2 I		42		45.0	1962

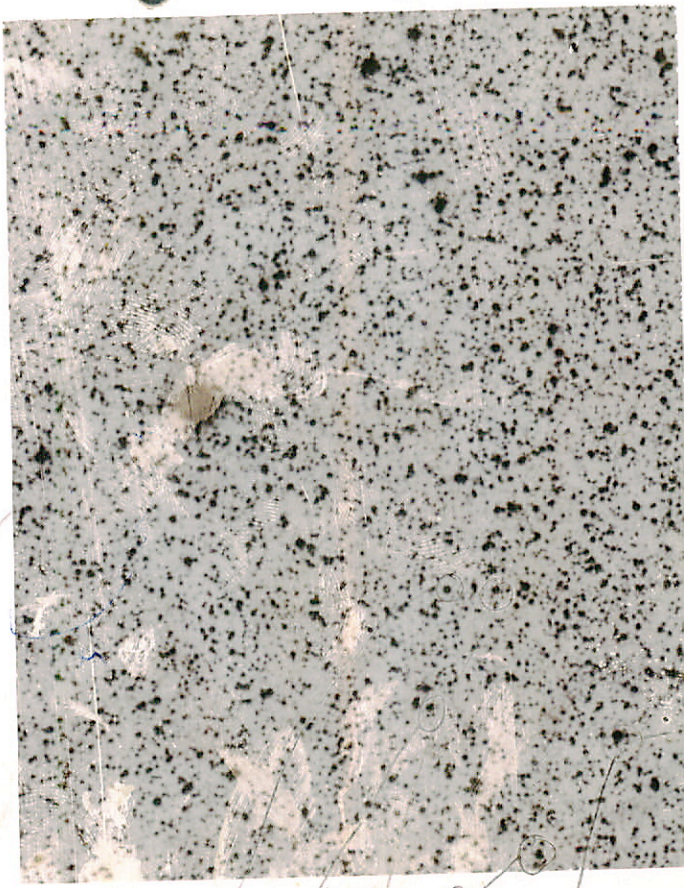
8.d 370 119.1935

BD +5°4202

3 + 4 up C +1 other up

Std 19 15.1 +05 07 1962

Fr 11733 9.12 +1.50 +1.15



V 3736

11.0 −57 35 13.4 9 0.37

14.39 +0.71 +0.075 20Apr72

12 10 04 R 17 SLT
-69 26 27

13.81 +0.565 +0.21 20 אגורות

A Z Gem 6 28.9 +14 33.0 1900

32.3 30.5 1960

d
1.01 11.8 - 12.4
1 12.4

1934
AN 253 p195

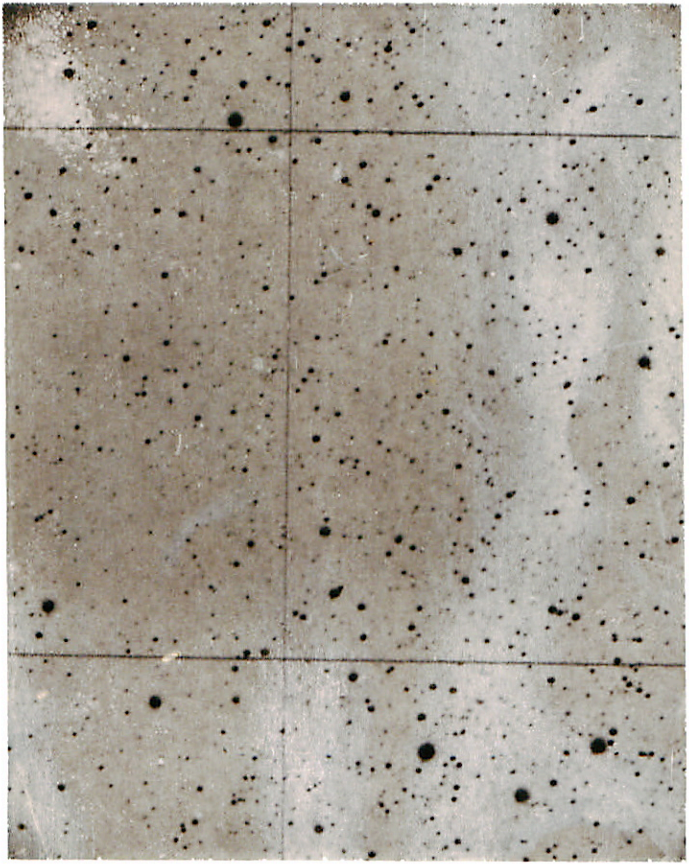
2 + Gp

100"

N

E

1905-20
13:06.6
-7:32
1980
13.8 0.04



Y706 30 05

SV Tri 1967 01 56 54 −24 32

10.8 − 11.9 87d F5 SRd −73°

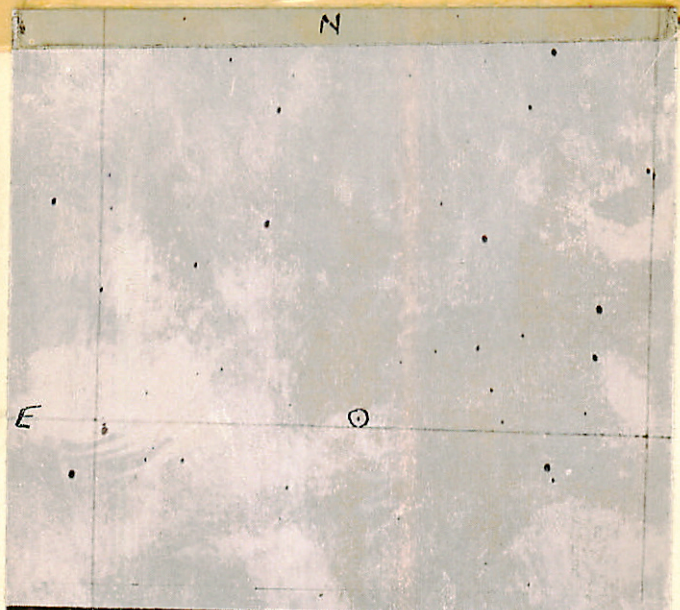
X → UBV only ←

30 Jan

+

(X)

1973 11-22
11-23
1206



55m 50

te of 1927, Oct. 23. Exposure

Scale 56" = 1mm

SV For

Lindy Ann 20, 20.4 52 40 41.5

V803 Aql 18 55 21 -07 37.5

58 03 33.5 1950

14.1 - 15.2 35 32.7 1960

0.263 41 32.6 1962

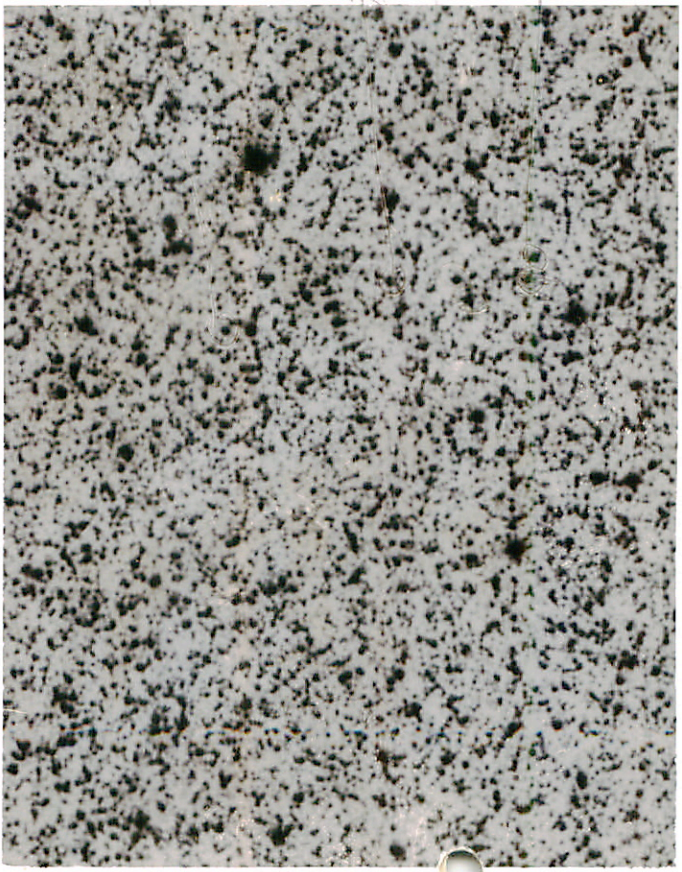
✓

3 + Comp #'s

Check

Check !!

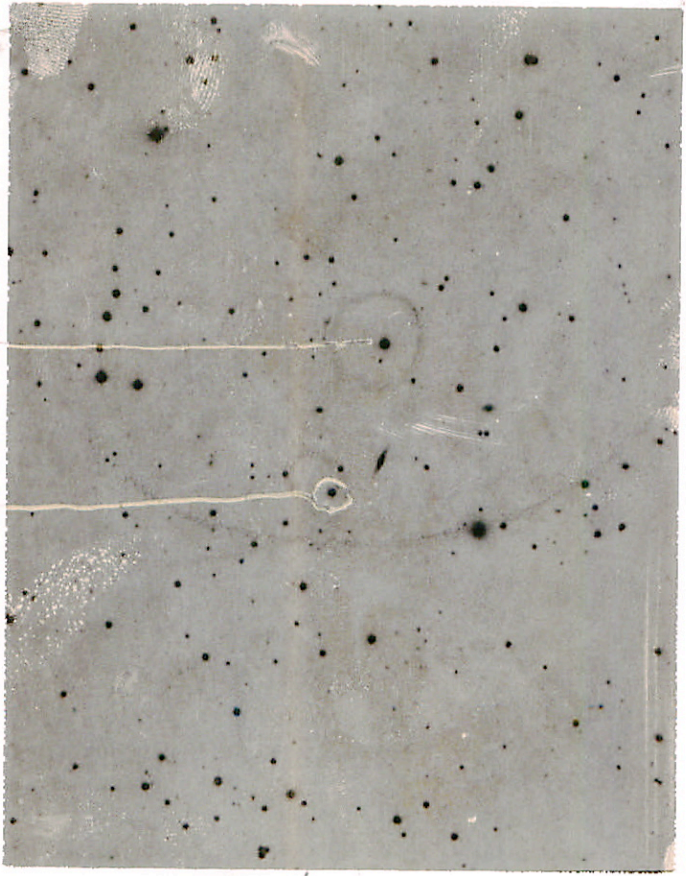
for next use

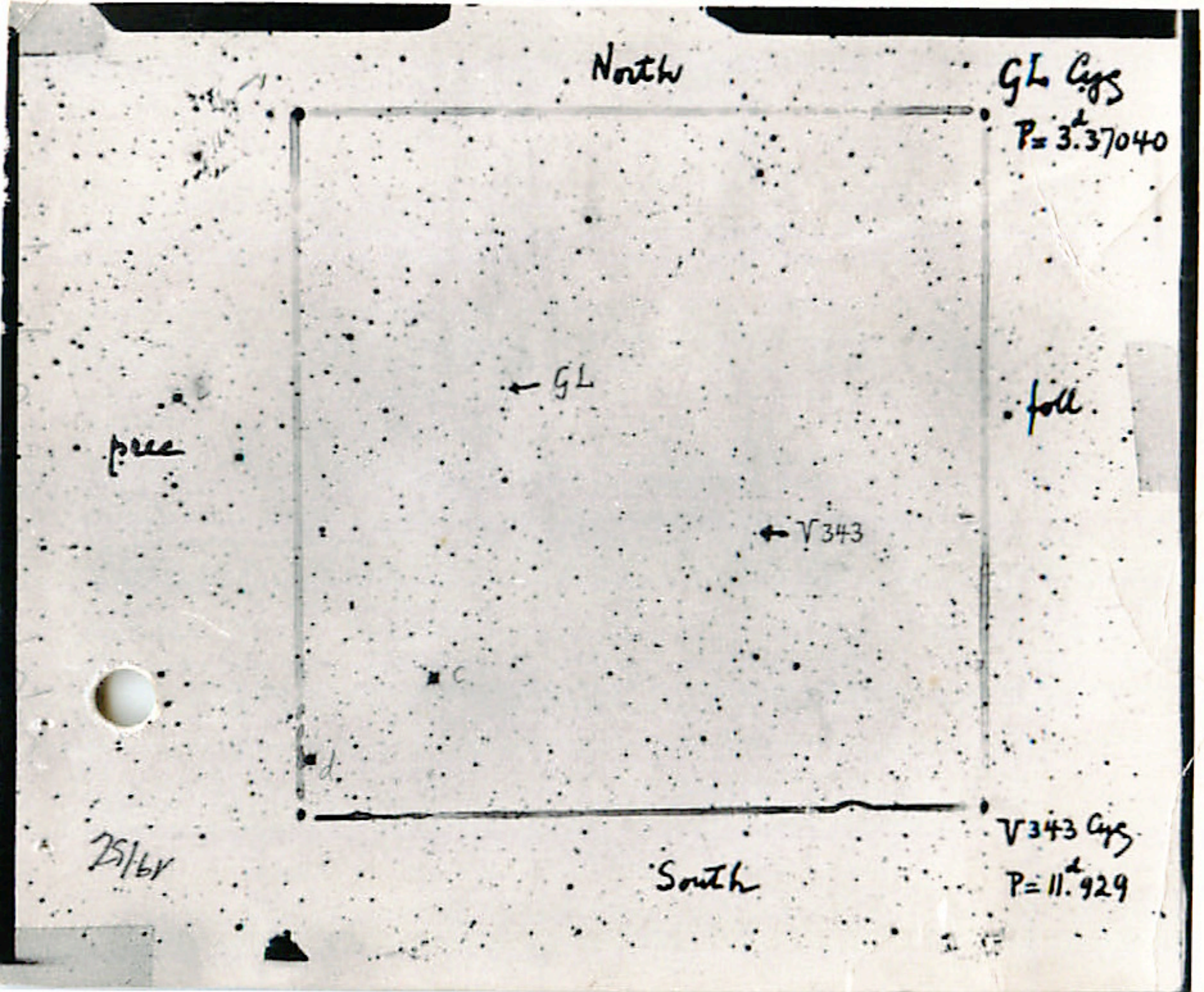


	1B	00 31	-4	27	1955	
LG70-27/30	11	05.86	-4	58	1950	
		06 13	-5	02	1942	

12.6 DA
13.6 MS } 274"

Left 100 Celldom
Rows
Only
Done




North
GL Cyg
P= 3.d37040
GL
foll
pree
V343
c
d
V343 Cyg
P= 11.d929
South
251/br

G L Cyg

19	58	17		45	1855
20	00	01	+38	52.6	1900
	01	48	+39	01.0	1950
	02	13		03.0	1962

14.7 -15.1

d 3.37

200

?

V 343 Cyg

19	58	44		42	1855
20	00	30	+38	49.3	1900
	02	17		57.7	1950
		42		59.7	1962

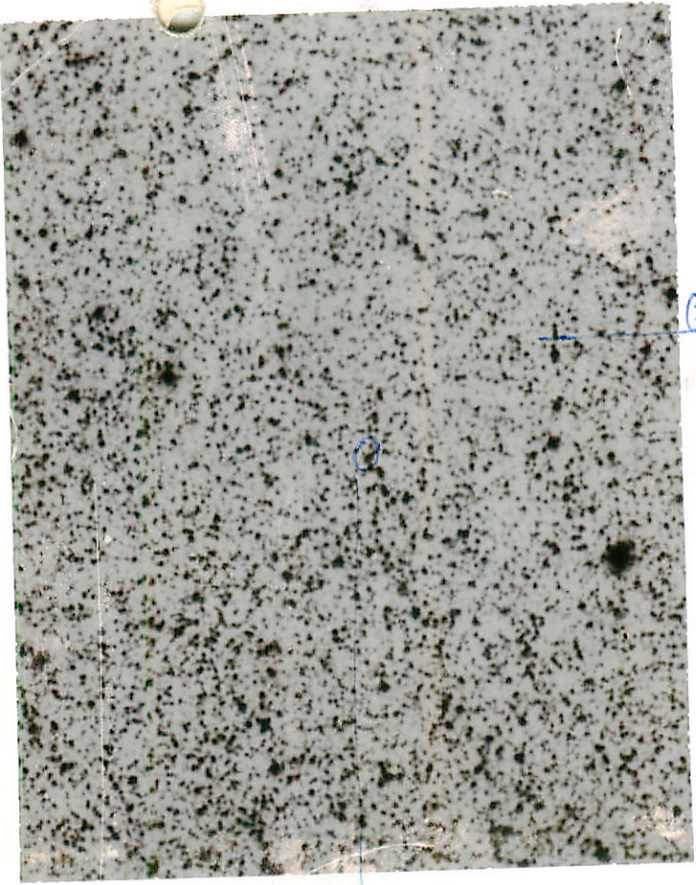
14.3 -15.4

d 11.43

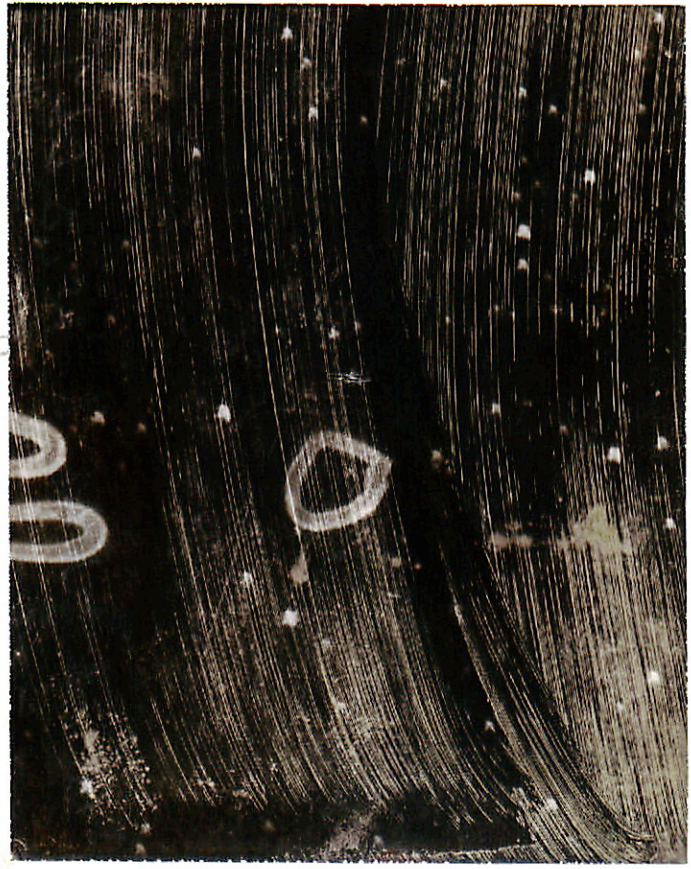
-113 km/sec

7-1½

N



V 343 Cyg



1977
Le 44-2440 A 3777 5
1977 6 03 55

R Pic 4 45 21 -49 18

23 Oct 6 nov $\delta = -40^\circ$ 172^d 6.7 -10

~~8.36 +1.82 +1.64 23 oct 69 Dunna~~

8.88 +1.70 +1.82 6 nov 69

7.40 +1.315 8 nov 69

3 Dec

20 Dec

(W)

(R)

8910 ↓ 23 26 00 -50 17

6.22 -720 859 -66 ±6 ±8 ±9 2.304 ±5

6.22 -725 859 -66 — 27 Sept 78
6.23 -719 846 -62 2305 17 Sept 78 40"
6.22 -727 862 -68 2305 18 " " 40"
6.24 -722 853 -72 2.304 16 " "
6.24 -720 847 -60 — 24 Sept 78 24"
6.22 -724 847 -63 — 25 " "
6.22 -727 864 -74 2.304 28 Sept 78 60"
6.24 -722 856 -72 2.308 25 " " 36"
6.23 -728 853 -72 2.303 26 "
6.22 -728 856 -69 2307 27 " "
6.22 -720 855 -72 2.307 29
6.24 -723 855 -71 2.304 30 " "
6.22 -731 858 -61 2.312 5 Sept 78

6.25 -719 860 -87 2.316 24 Sept 78 60"
6.21 -720 854 -90 2.306 18 Sept 78 "
6.22 -723 858 -71 2.303 19 " " "
6.22 -723 853 -65 2.306 1 Sept 78 86"
6.24 -723 852 -67 2.315 2 " "
6.24 -720 857 -68 2.292 3
6.21 -724 862 -84 — 14 Sept 78 40"
6.24 -732 857 -56 — 15 " "
6.22 -723 856 -72 2.305 24 " " "
6.23 -729 862 -78 2.310 25 "
6.20 -727 853 -66 — 30 Sept 78 24"
6.24 -730 859 -66 — 29 Sept 78 "

3018 ✓ 7 44 45 -34 08

5.38-331 847 -550 (31)
5.34-336 848 -550 (29)
±02 ±6 7 ±7

5.38-334 848 -550 2.114

5.37-326 837 -547 2.110 22 אלול

5.38-343 846 -547 8 אלול 24"
5.38-338 843 -530 9 " " "
5.38-344 844 -548 10 " " "
5.37-336 849 -539 11 " " "
5.37-337 847 -548 23 " " "
5.38-338 847 -562 24 " "
5.38-337 848 -556 25 " "
5.36-335 846 -549 2.121 25 אלול
5.37-336 841 -538 26 " "
5.38-337 840 -540 30 " "

5.39-334 841-539 2.117 23 אלול
5.39-338 844 -525 - 28 אלול 40"
5.40-336 843 -534 2.120 29 אלול
5.38-334 848 -552 1 אלול
5.38-332 849 -544 2.116 13 אלול
5.38-332 842-544 2.111 14 אלול
5.37-312 833 -546 - 14 אלול
5.40-335 847-547 - 15 אלול
5.38-337 845-546 2.120 24 אלול
5.37-337 845-547 2.114 25 " "

5.38 -332 845 -543 2.114 5 Feb 79
5.37 -327 837 -546 2.126 7 "
5.38 -338 854 -555 2.114 16 Feb 79
5.38 -337 850 -544 2.124 17 "
5.37 -331 840 -543 2.128 18 "
5.37 -344 855 -536 2.112 19 "
5.39 -335 852 -536 2.113 23 Feb 79
5.38 -339 845 -545 2.105 5 Mar 79
5.39 -324 855 -510 2.117 6 "
5.37 -333 843 -552 2.119 7 "
5.38 -332 839 -534 2.110 8 "
5.38 -331 841 -552 2.109 9 "
5.36 -324 840 -541 2.114 11 Mar 79
5.38 -334 854 -554 2.114 12 "
5.38 -335 843 -544 2.114 13 "

5.39 -337 844 -540 30 Dec 78
5.38 -332 841 -535 28 "
5.39 -339 845 -533 29 " "
5.36 -335 835 -543 2.111 19 Jan 79
5.38 -333 845 -557 2.110 20 "
5.37 -339 851 -540 2.110 21 " "
5.37 -333 839 -543 2.112 22 " "
5.37 -332 846 -551 2.115 24 " "
5.37 -340 845 -552 — 26 Dec 77
5.37 -332 846 -555 — 27 "
5.38 -341 842 -537 — 29 " "
5.36 -338 837 -536 — 36 "
5.37 -343 854 -566 — 31
5.37 -343 854 -560 — 1 Jan 78
5.37 -336 850 -544 2.109 14 Apr 79
5.38 -330 840 -529 2.111 15 "

41176 6 02 20 -02 28.5 7.1 AC

~~7.1 -647 836 -225 2.255~~

7.14 -694 825 -220 2.305 237 80 60"
7.14 -692 828 -224 2.254 24" " "
7.14 -697 836 -226 2.257 26" " 40"
7.11 -692 827 -206 2.256 27" " "
7.17 -705 2.250 28"
7.15 -699 837 -233 2.252 3 mon 80 36"
7.15 -698 836 -220 2.258 2" " 40"
7.14 -692 834 -224 2.250 5" " 36"
7.17 -696 830 -222 2.257 6" " 40"
7.16 -706 850 -233 2.260 7" " "
7.16 -706 850 -240 2.257 8"
7.16 -700 840 -228 2.257 10

7.16 -702 847 -239 2.258 11 mon 80
7.14 -701 841 -217 2.261 12"
7.16 -706 852 -231 2.255 13
7.15 -695 829 -221 2.266 2 mo 80
7.16 -692 840 -242 2.257 3"
7.15 -693 818 — 2.251 4 3 mo 80 ctrl 80
7.15 -693 825 -218 2.250 11 6 mo 80
7.15 -695 827 -225 2.247 17"
7.15 -693 827 -217 2.249 19"
7.14 -697 827 -230 2.252 20"
7.15 -696 828 -216 2.256 21"
7.15 -694 824 -234 2.252 22"
7.15 -697 831 -231 2.255 23"
7.15 -690 828 -220 2.255 5 ctrl 3
7.17 -695 822 -202 2.254 6"

2007 5 47 35 24 05

5.54 -317 912 -525 2.120 160.RTO 0.6 NPAG
5.58 -313 912 -530 2.117 27 RTO 40"

5.54 -313 906 -519 (30)
5.58 -314 907 -519 (80)
5.58 -318 ±3 907 ±5 -522 ±7 (25) 2.115 (15)
5.54 -313 907 -520 2.115

5.54 -314 917 -518 2.123 27" " "
5.54 -322 918 -515 2.125 25 " " "
5.56 -310 908 -522 2.114 3 MAX RTO 36"
5.54 -323 918 -525 2.124 2" " 40"
5.57 -309 911 -517 2.115 5 " " 36"

5.58 -312 899 -515 2.118 102 RTO 36"
5.57 -309 901 -517 2.109 " " "
5.56 -313 906 -515 2.115 12" "
5.57 -312 908 -522 2.119 13"
5.58 -309 902 -514 2.118 14"
5.57 -313 905 -523 2.112 15
5.58 -316 914 -528 2.122 25 RTO 40"
5.58 -314 916 -522 2.117 26" "

5.58 -317 915 -524 2.120 6" " 40"
5.54 -321 918 -513 2.117 7" " "
5.58 -319 917 -521 2.125 8"
5.54 -314 921 -530 2.120 10"
6.00 -320 916 -514 2.125 11
5.54 -316 913 -524 2.127 12
5.58 -316 913 -524 2.125 13
5.58 -307 904 -519 2.118 9 Clear 80 NPAG 16" DY
5.58 -314 909 -519 2.111 4 Clear RTO " 1.3 mm

		49 07		40.2	1845
CV Cyg	19	50.45	+37	47.0	1902
		52.33		54.8	1960
		53 00		56.6	1962

Var*'s 6 no. # page 209

d
0.98 10.7
F8III 10.1-11.1

A. Starikowa

(2) 7B (6) A. Sitschewa

1947 Var Stn 4, 209

AK Cyg 21 42 30 +51 02.5

}20" 85°

60"

ADS14926 21 20.9 +57 21

21.2 24 1942

8.0-9.2 0.8" 345°

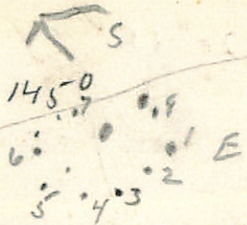
8.3 MO 15" ~~South~~ W

15" South

1

15434 21 52.7 +62 25 1962

B3 7.1 } 62" 145°
Ho 8.8



15679 22 07.4 +44 39
Vd B9 7.2 } 27" 110°
8.7 } 23" 165°
1962

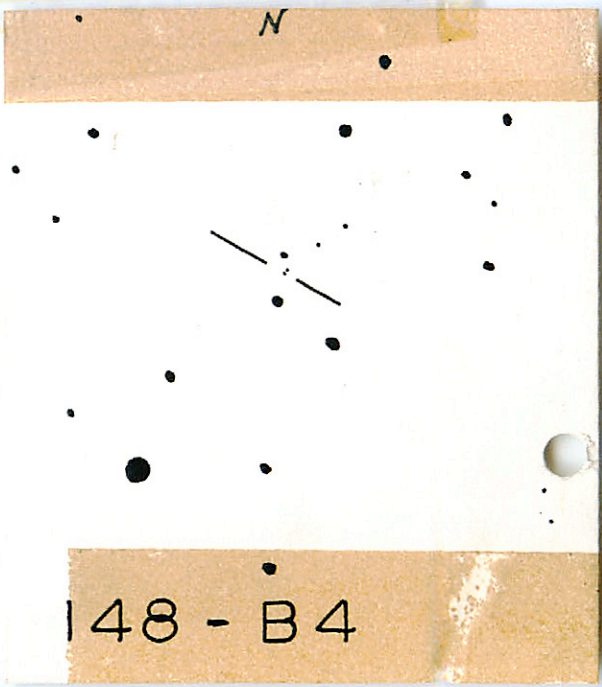
X

15601 22 02.5 +59 37 1962

7.5 192" 34°

B3 5.9 } 11" 300°
(B) 10.6
(D) 7.5
154" 72°
(C) 9.5 } 90" 39°

(E) 237" 37° 6.7



148 - B4

HENRY L. GIOLAS
LOWELL OBSERVATORY
FLAGSTAFF, ARIZONA, U.S.A.

1950

12 15 03 +32 21.9

15 42 +32 17.7

1963

15.4

Red

200"

1

Blue

14.3 +3

14.7 0 8"

M		04	00		17	1955
MR Cao	00	06.	18	+57	32	1900
S4669660		8	53		48.7	1950
		9	30		52.7	1962

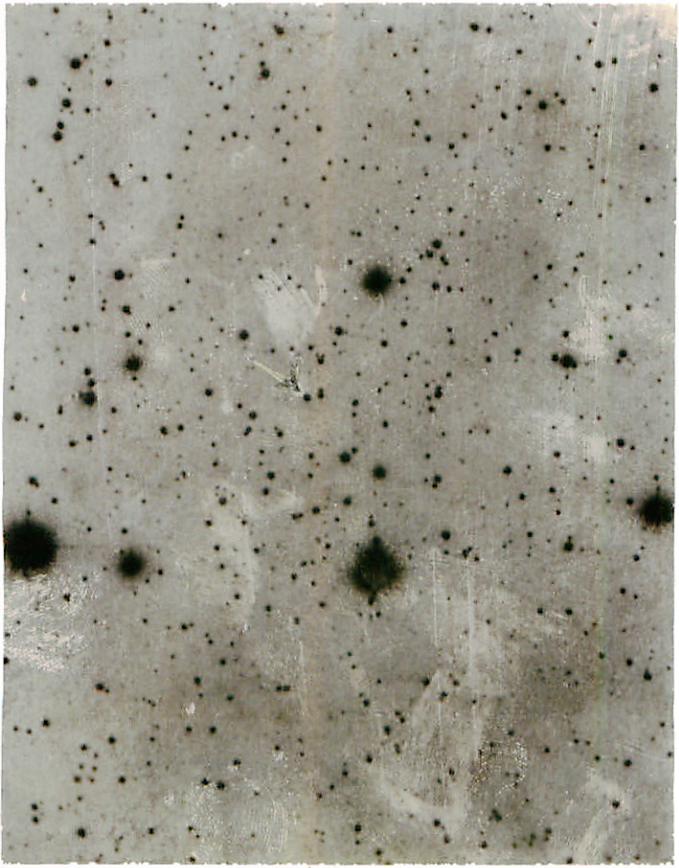
14.5 - 15.3
15.1

d
0.36

Moll

Haro Lun #4

G 99-44 5 52 40 -4 09.2 1950

n=2.44

14.5 in