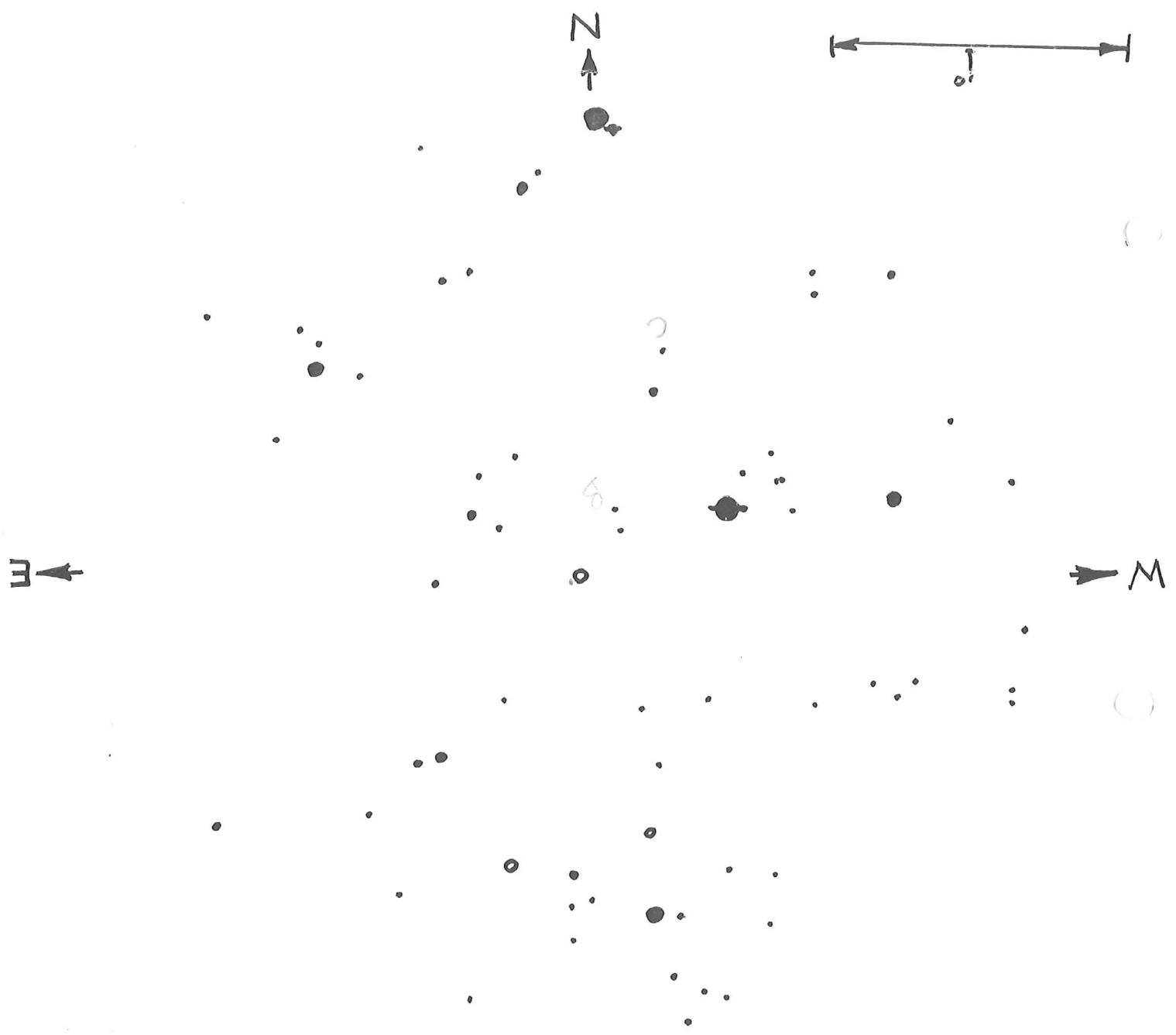


B & C chosen
 N.B. Extra star added in close to DM Del to assist identification 1987 Sept 17

SAO	RA	Dec.	m _v	Sp.
B 106351	20 ^h 37 ^m	14° 29'	8.5	
C 106340	20 ^h 36 ^m	14° 58'	8.7	



DM Del D.B.3
 8.6 - 9.1
 20^h 37^m 3
 14° 15'
 1950
 0.84^d

E →

165452

AI DRACONIS

EA

7.1 - 8.9

1.20^d

D.B.2

S

16^h 55.2^m

52° 46'

1950

W-

E.

B

A

D

COMPARISON

C
CHECK

N



SAO

030200

030195

030172

030153

030134

E

D

C

B

A

RA

17^h 00^m

16^h 59^m

16^h 56^m

16^h 54^m

16^h 51^m

Dec.

52° 41'

53° 07'

51° 58'

52° 03'

53° 01'

mv

6.7

7.2

7.9

7.9

8.4

SP

A0

K0

K0

K0

A3.

Use

B+C



JWF

SAO	RA	Dec.	mv	Sp.	AO	AO
C 017139	16 ^h 33 ^m	61° 20'	7.2	AO	AO	AO
B 017204	16 ^h 44 ^m	61° 04'	7.89	AO	AO	AO
			7.89			
			6.89			



N

TX DM 7.9-10.2

YF

(RS CVN)

4^d 63
 16^h 38^m 4
 60° 48'
 1950

S

8.3-9.5 EA Dra WW

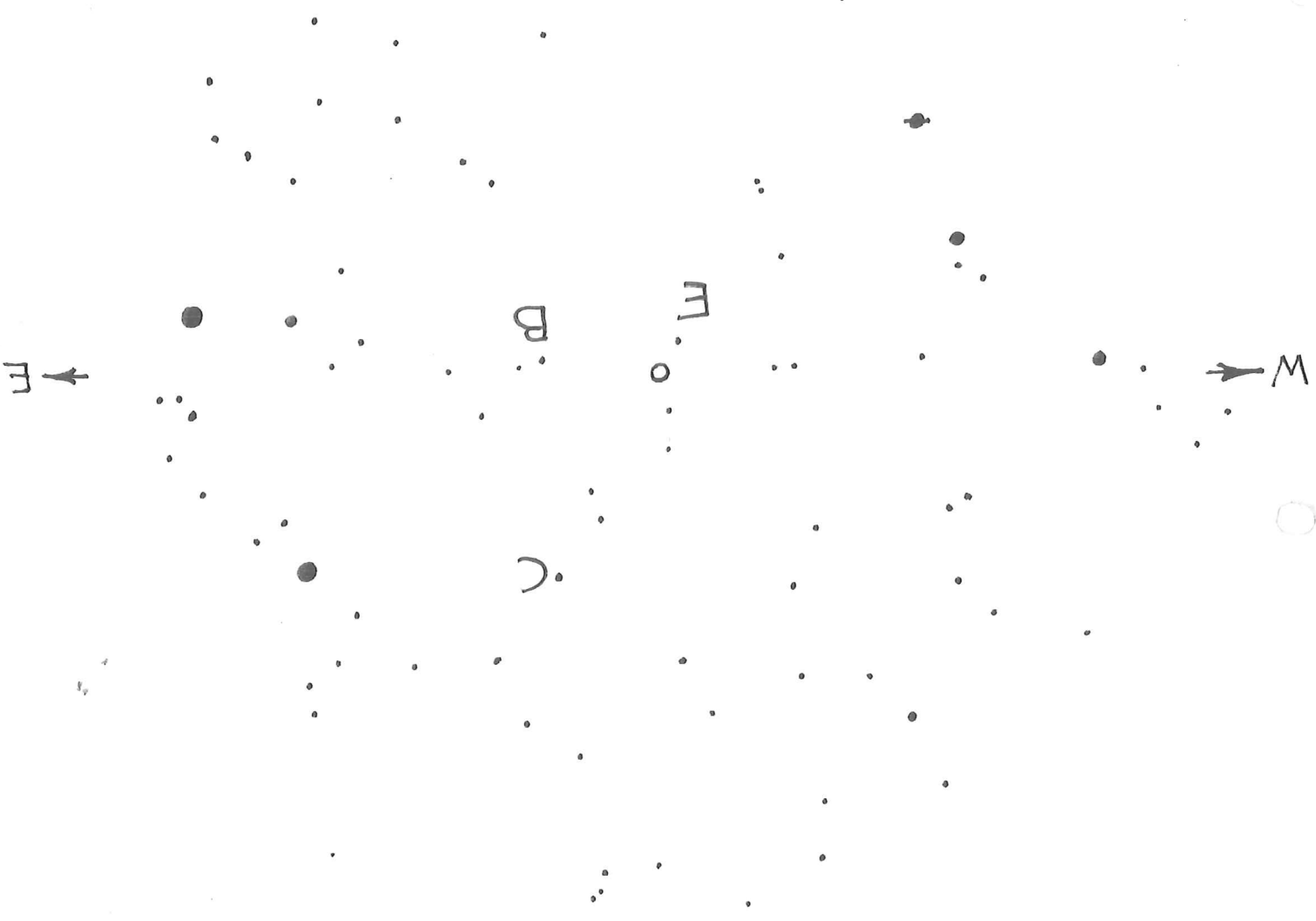
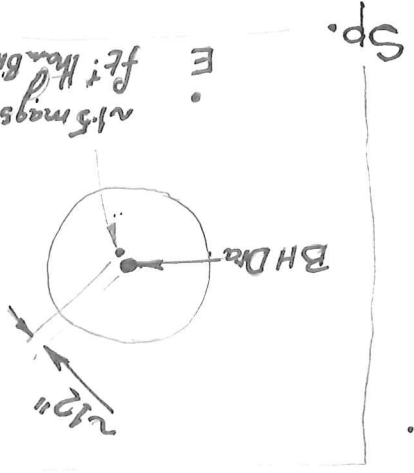
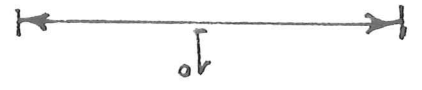
DB8

Rev. DB 11

W

1985 Dec 8. Comes of 2 other stars added.

SAO	RA	Dec.	m _v	Sp.
E 031355	19 ^h 02 ^m	57° 28'	8.7	K2
C 031382	19 ^h 05 ^m	56° 46'	8.1	K0
B 031388	19 ^h 05 ^m	57° 26'	8.3	K5

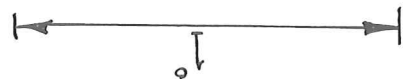


BH Dta	EA	8.0 - 8.5	19 ^h	57°	23'	1950
D.B. 3			2 ^m 8			
						1 ^d .82

JWE 1986 Jan

B+C added 1986 Oct

SAO	RA	Dec.	m _v	Sp.
C 009609	20 ^h 02'	72° 46'	8.8	-
B 009616	20 ^h 03 ^s	72° 51'	9.2	-



B.
C.



BS Dra
D.B.3

9-1 - 9-9

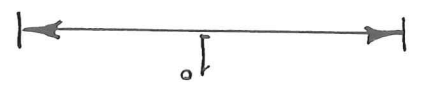
19^h 57^m 29^s
73° 29'

1950

3-36^d

111E 1982

SAO RA Dec. mv Sp.



N ↑



E →

W →

15h 10m 8 62° 03' 1950.

0.29d 8.6-9.1

BW Dra

15h 10m 8 62° 02' 1950

↓ S

7.9-8.5

BV Dra

0.35d

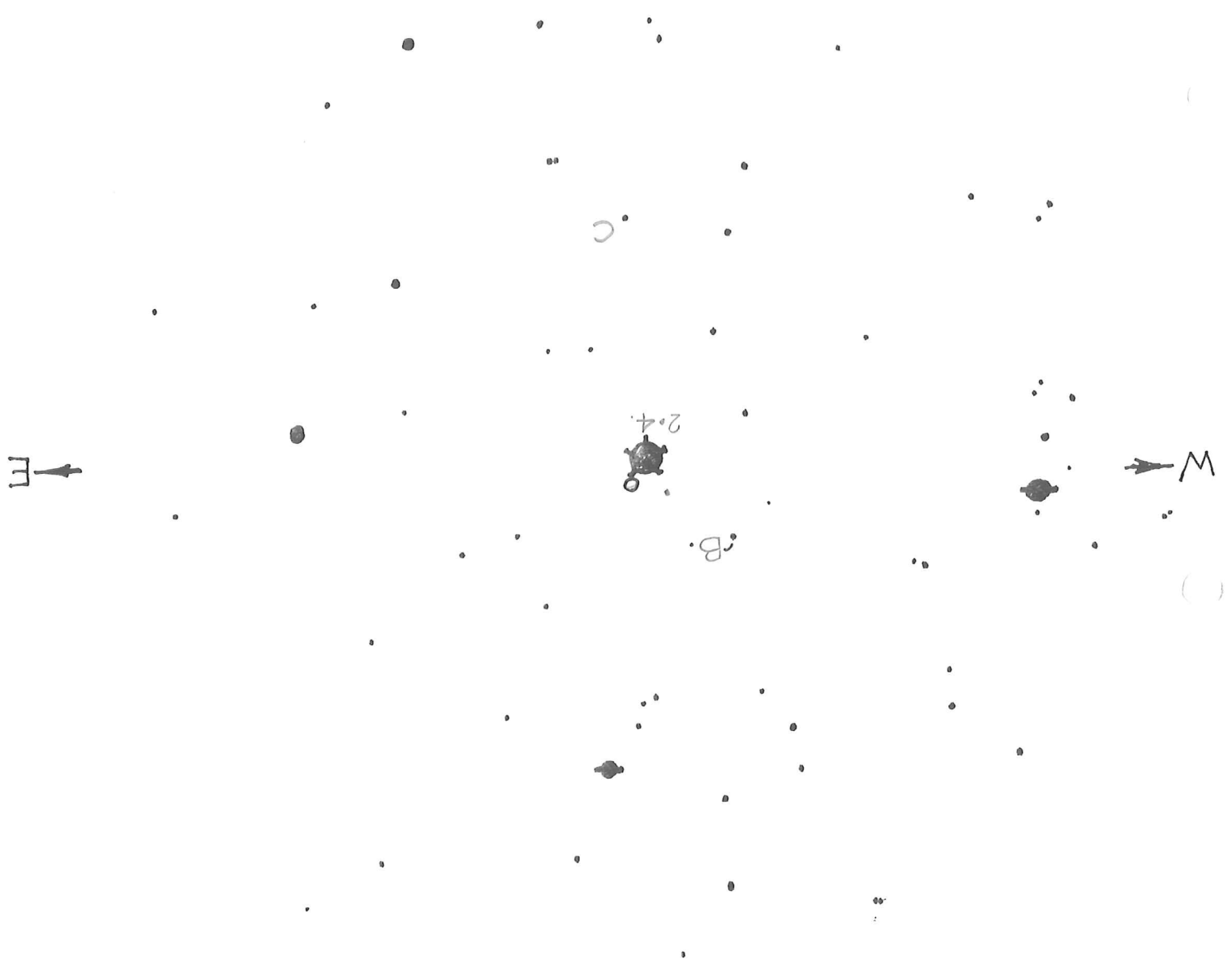
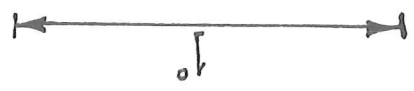
Not an APT programme - too close!

B+C added 1987 Jan 12

5 faint stars / added posⁿ of YY Gem moved slightly to aid identification 1987 Feb 15

SAO	RA	Dec	mv	Sp.
B	07 ^h 30 ^m	31° 48'	8.7	
C	07 ^h 32'	32° 45'	8.6	

Stars E, B, C are only ~100" from S, brighter
 Stars A, D, E, B, C are very carefully
 positioned in pin-hole.



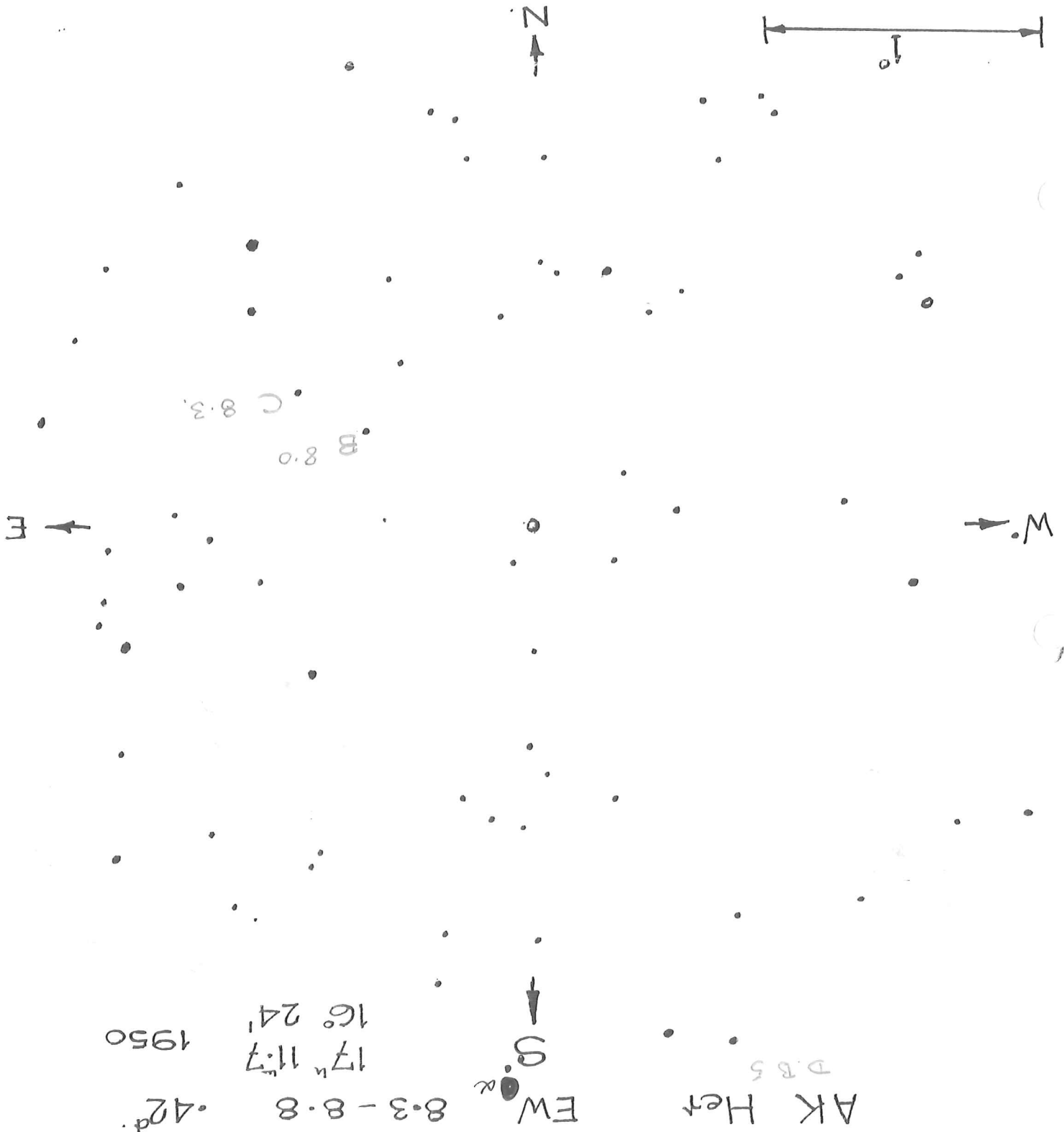
YY Gem	RA	Dec	mv	Sp.
E A	9.3 - 9.8	7 ^h 31 ^m 4	31° 59'	1950
	8.9	9.6		



D.B.3

JWE

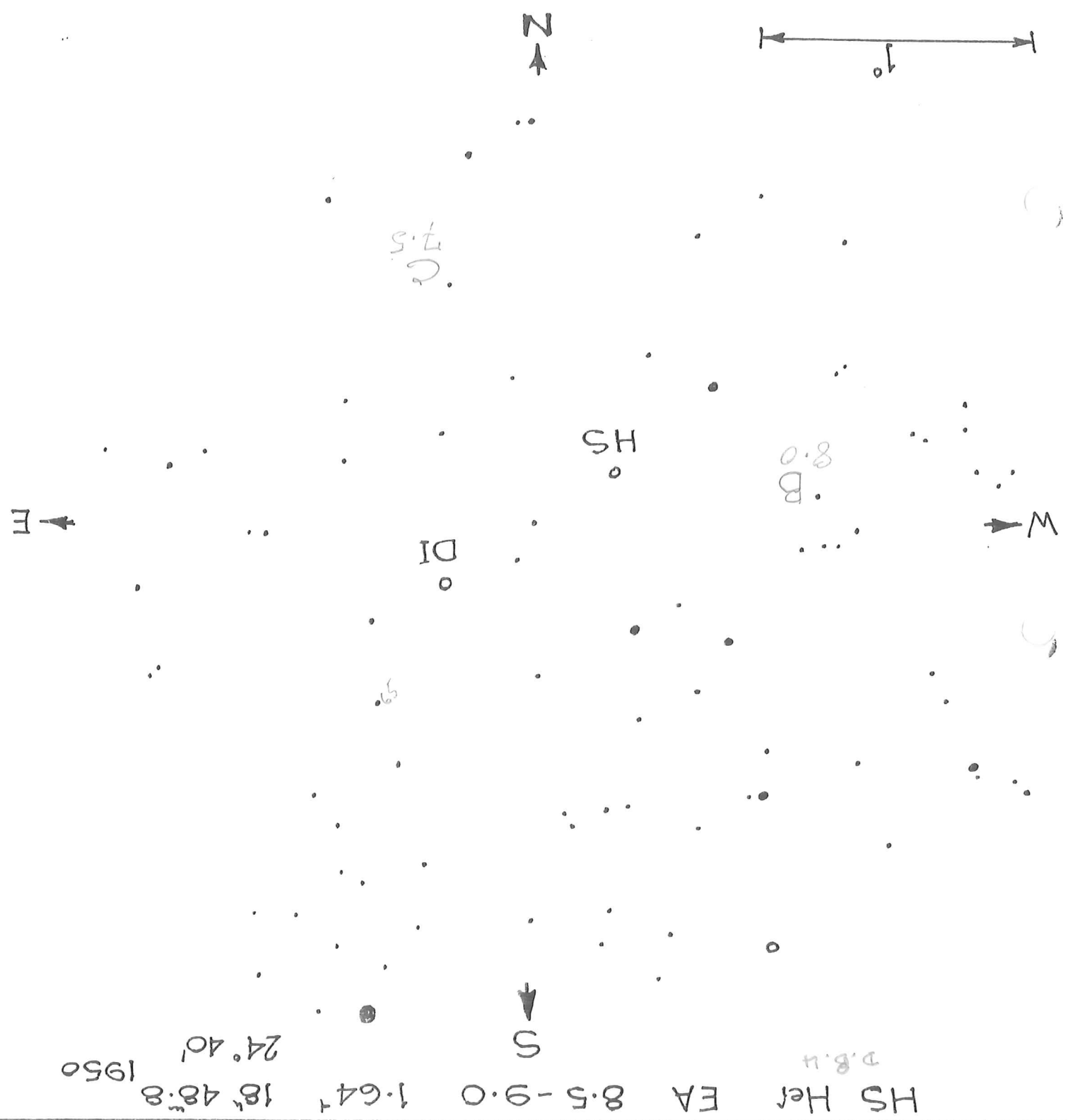
SAO	RA	Dec.	mv	Sp.
B 102701	17 ^h 14 ^m	16° 43'	8.0	AO
C 102715	17 ^h 15 ^m	16° 52'	8.3	—



1950
-42^d

True

SAO	RA	Dec.	m _v	Sp.
C 086543	18 ^h 51 ^m	25° 19'	7.5	G5
B 086438	18 ^h 45 ^m	24° 35'	8.0	G5



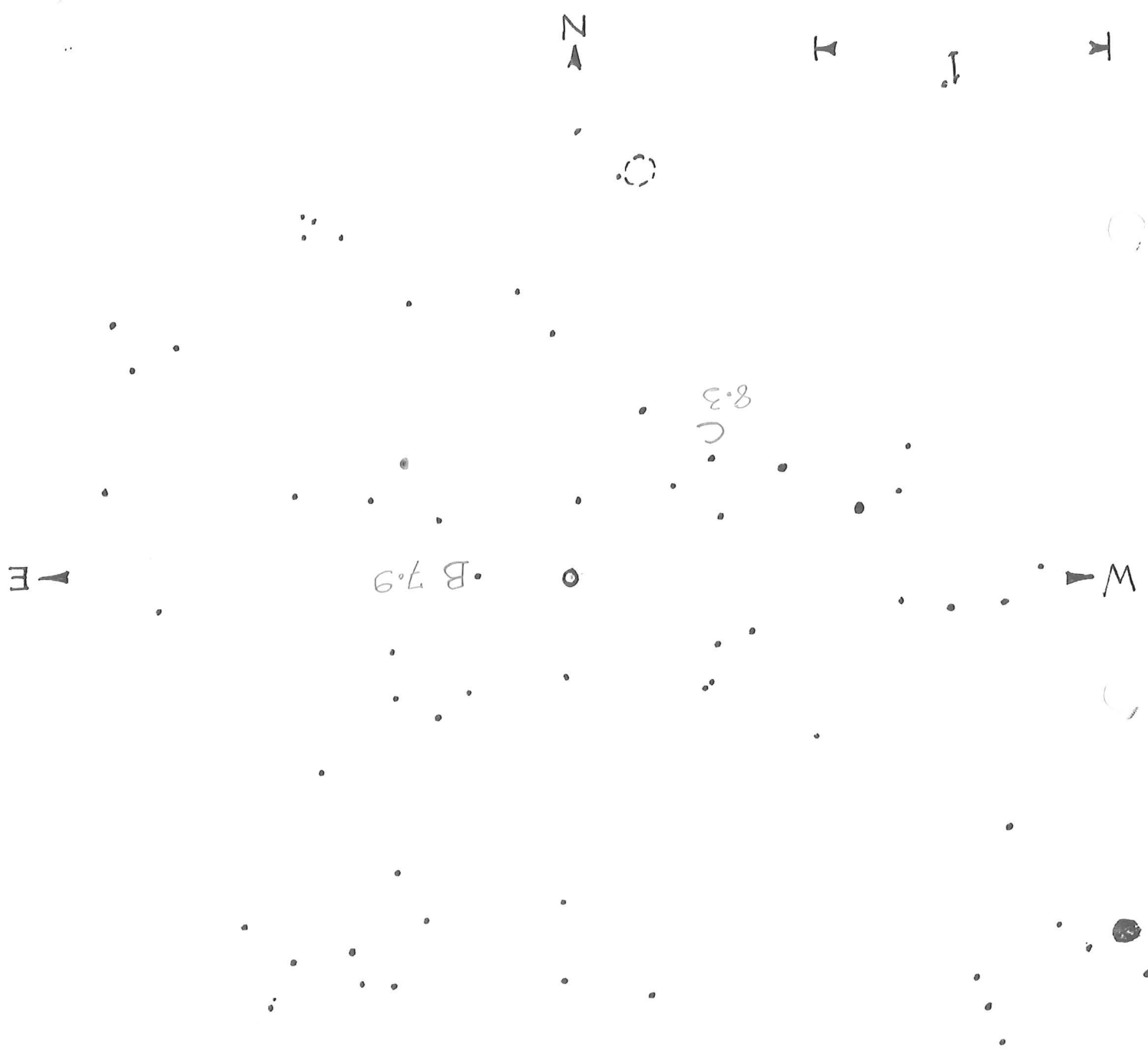
DI Her	EA	8.3-8.9	10.55	18° 51.4'	24° 13'	1950
HS Her	EA	8.5-9.0	1.64 ^t	18° 48.8"	24° 40'	1950

d.B.H

d.B.H

JWF

SAO	RA	Deco	mv	Sp.
C	17 ^h 15 ^m	42° 19'	8.3	A5
B	17 ^h 19 ^m	41° 55'	7.9	A2



TX Her DB5
 EA 8.5-9.3
 17^h 17^m 41° 56' 1950
 17^h 17^m 41° 56' 1950

S

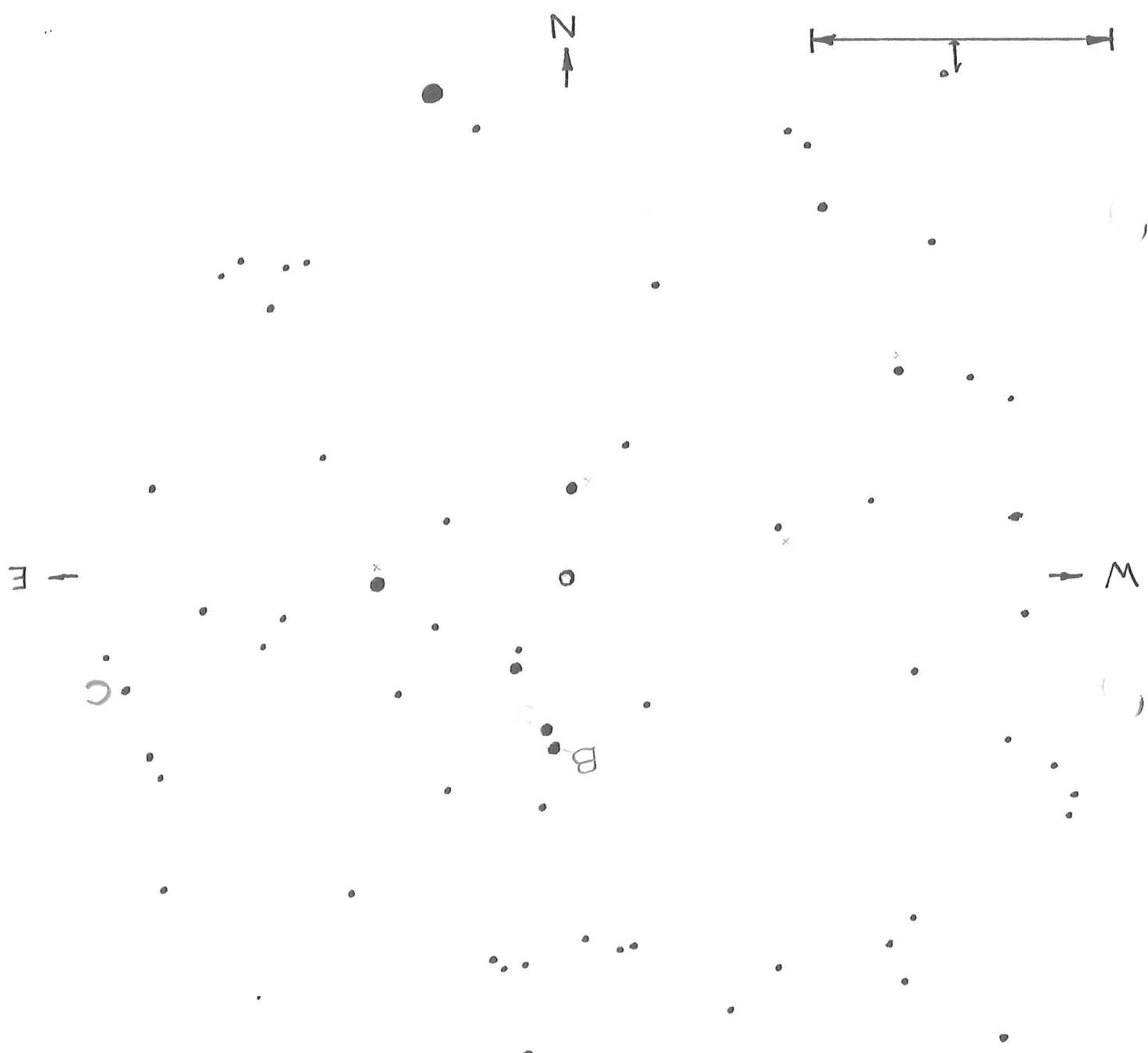
W

E

N

JWE

SAO	RA	Dec.	mv	Sp.
B 103258	17 ^h 56 ^m	14° 31'	7.3	A0
C 103349	18 ^h 02 ^m	14° 47'	7.9	A0



Z Het DBL

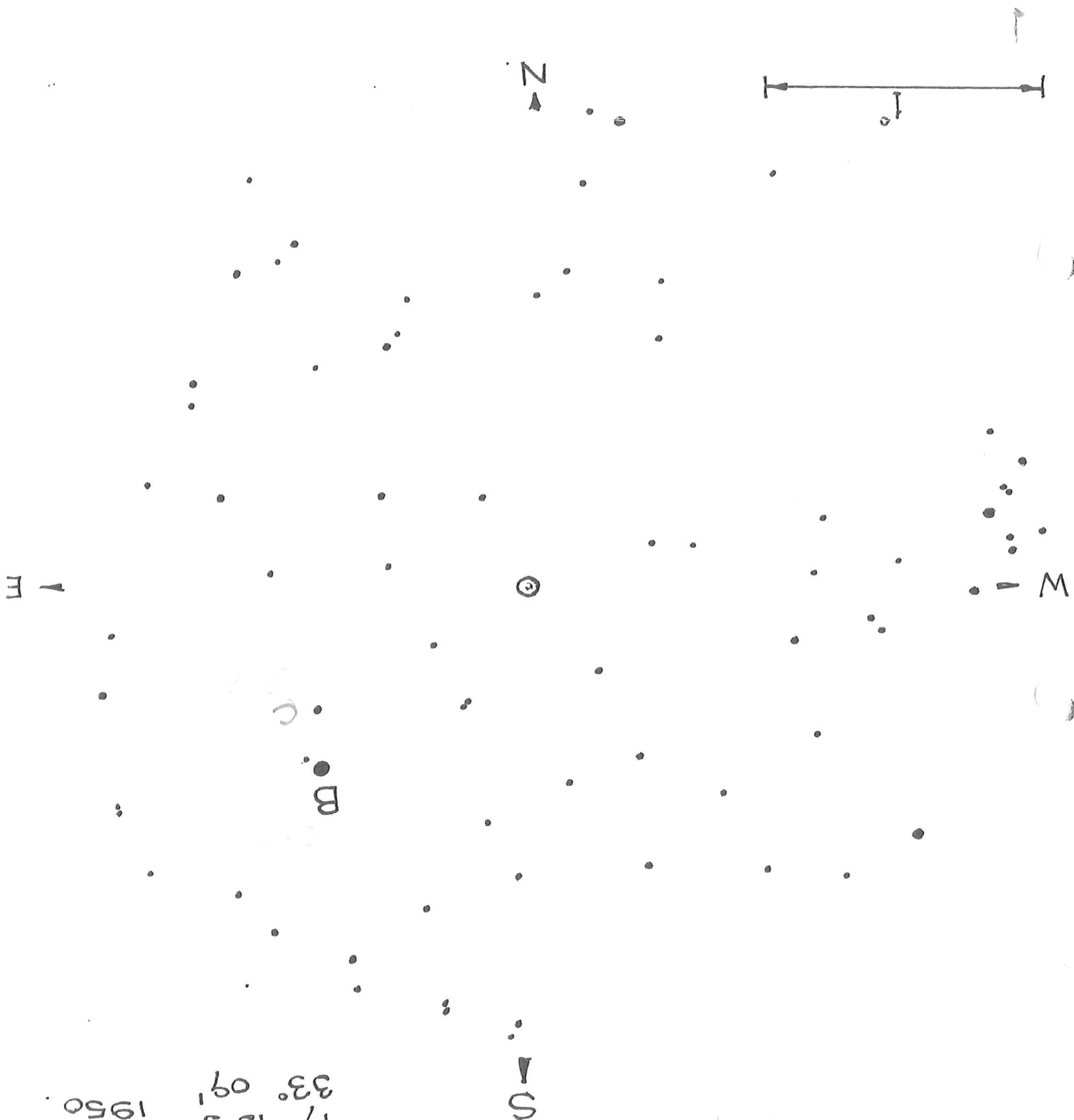
EA S

7.3 - 8.1
~~17^h 56^m 2~~
 15^h - 9^m

3.99d
 1950

JWE

SAO	RA	Dec.	mv	Sp.
B	17 ^h 19 ^m	32°32'	5.4	G0
C	17 ^h 19 ^m	32°43'	6.8	A0

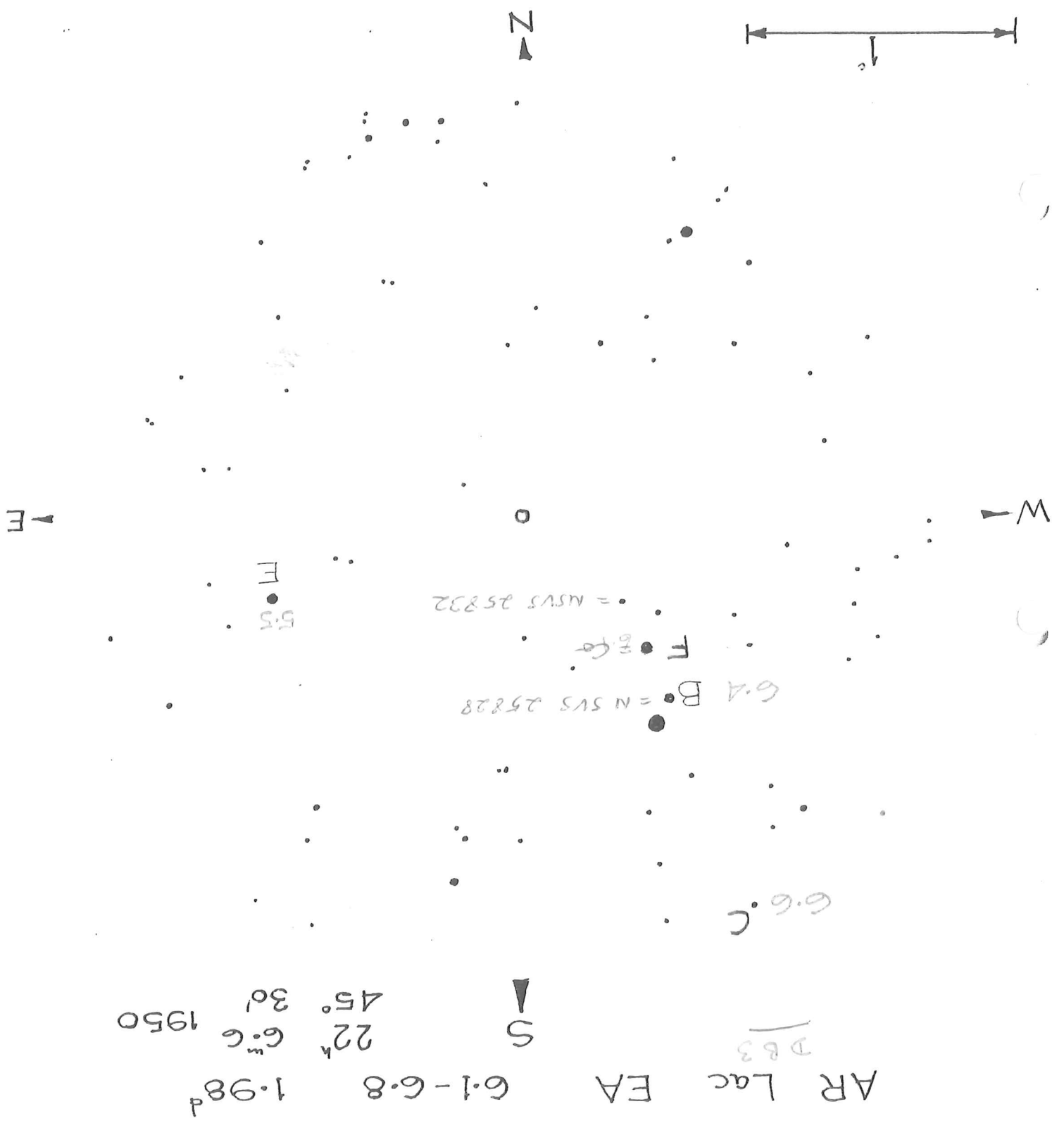


68 u Her DB4

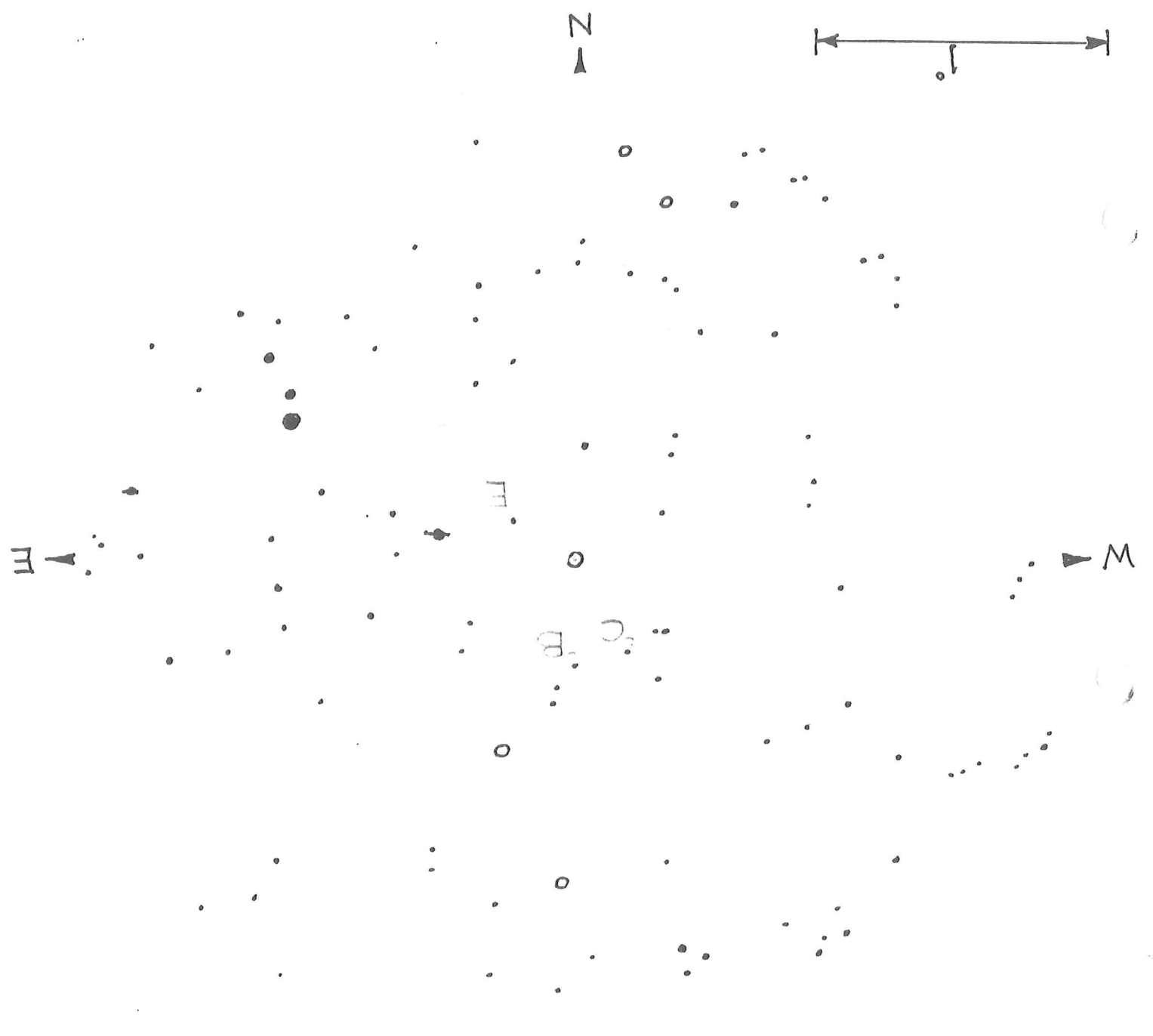
EB 4.6-5.3 17^h15.5 33° 09' 1950.
2.05^d

S

SAO	RA	Dec.	mv	Sp.
B	22 ^h 04 ^m	44° 52'	6.4	A0 = MSVS 25828
C	22 ^h 02 ^m	44° 06'	6.6 6.56	A2 = check
E	22 ^h 12 ^m	45° 12'	5.5	A0 -
F	22 ^h 04 ^m	45° 00'	6.4 6.19	A2 = Comp

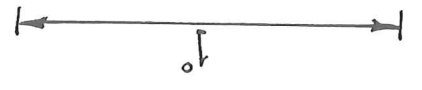


SAO	RA	Dec.	m _v	Sp.
B	21 ^h 58 ^m	43° 57'	8.9	
C	21 ^h 57 ^m	44° 00'	8.8	
E	21 ^h 59 ^m	44° 26'	8.3	



CM Lac
 EA 8.2-9.2 1.6^d
 S ↓ 21^h 58^m 1 44° 19'
 D. 8.4

SAO RA Dec. mv Sp.



N

E

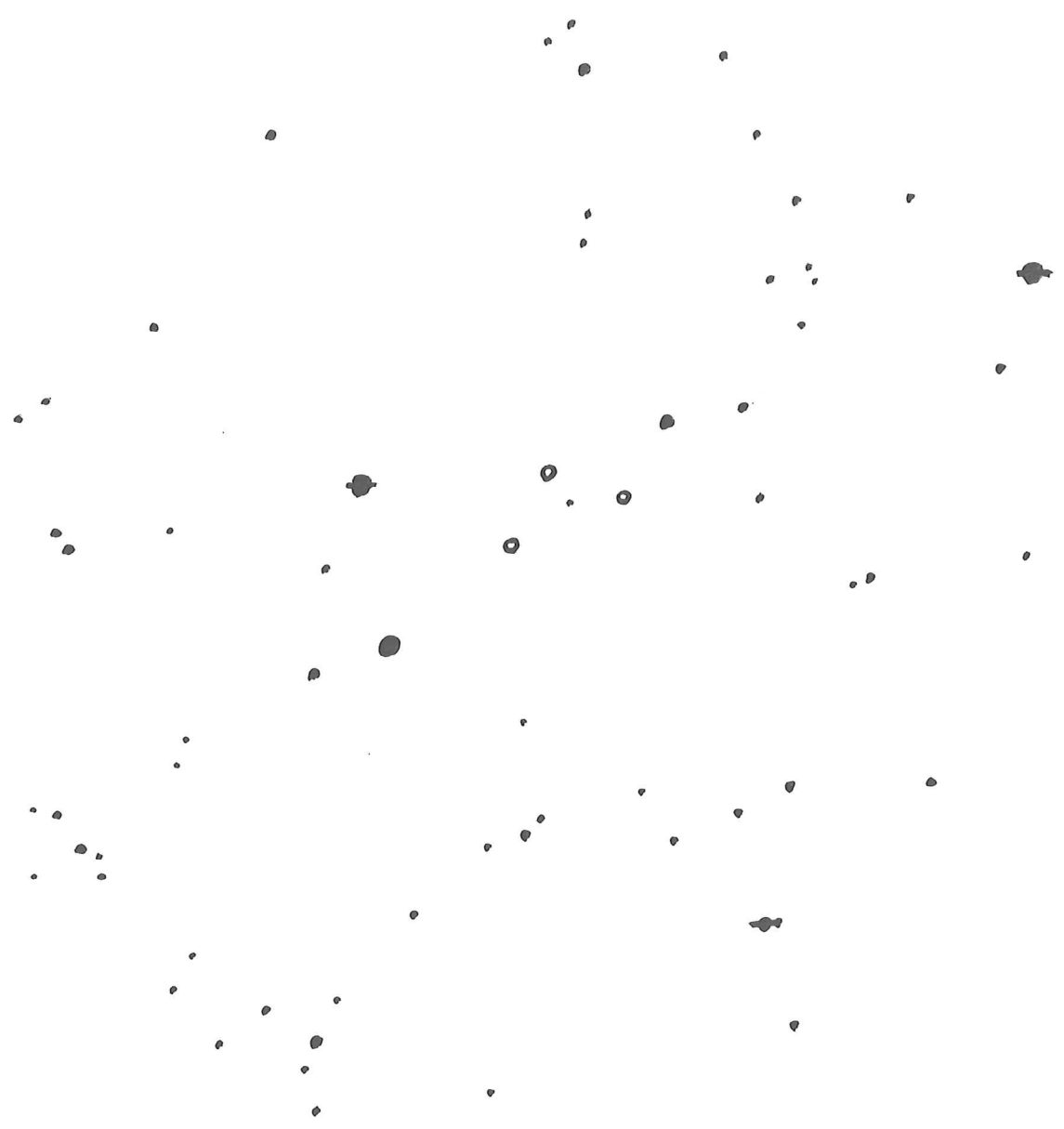
W

3.8^d
21^h 57^m 7
42° 20'

S

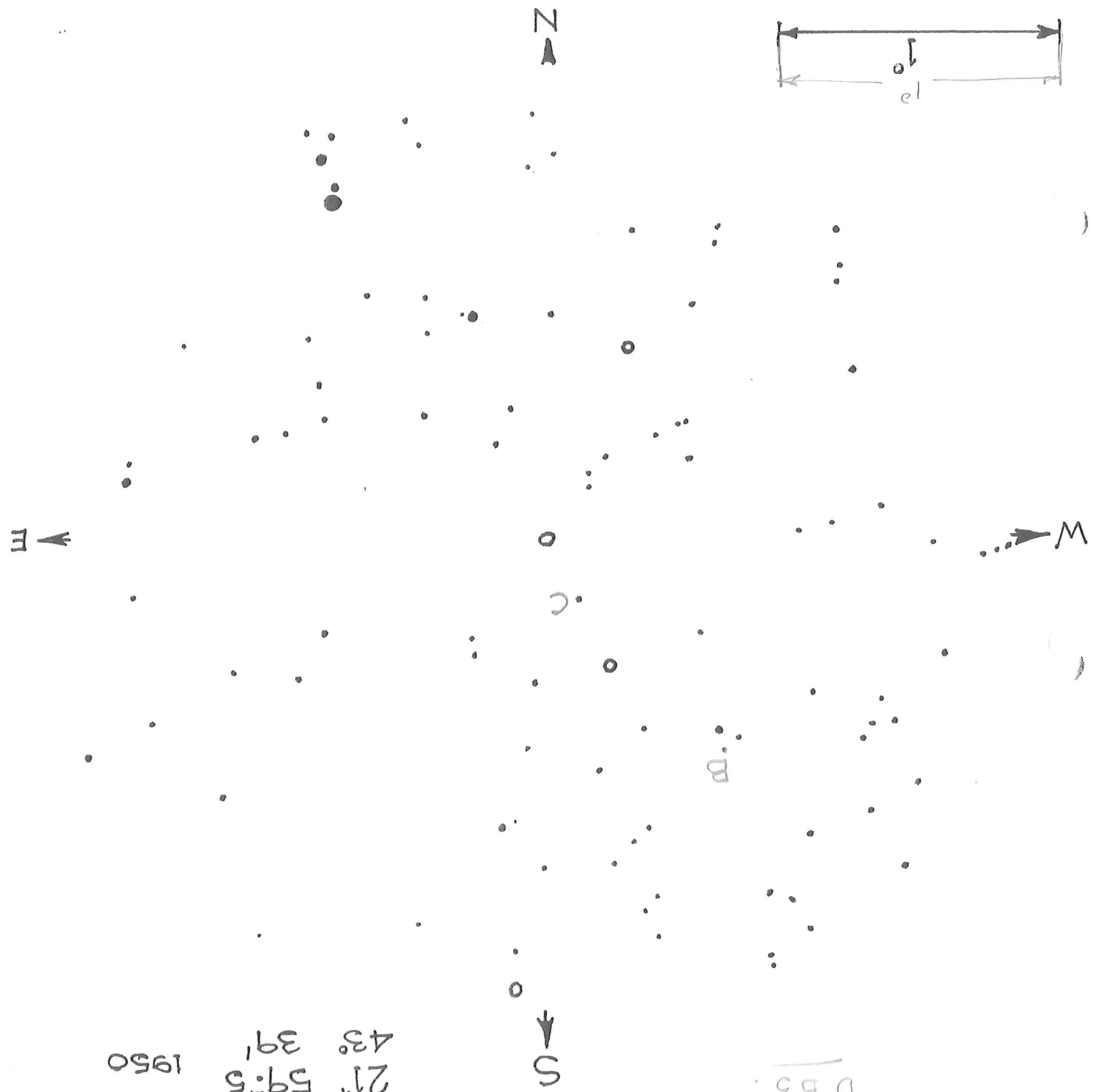
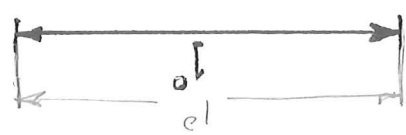
9.3 - 9.7

CS Lac



JWF

SAO	RA	Dec.	mv	Sp.
B 051489	21 ^h 56 ^m	42° 55'	8.1	A2
C 051552	21 ^h 59 ^m	43° 24'	7.6	A5

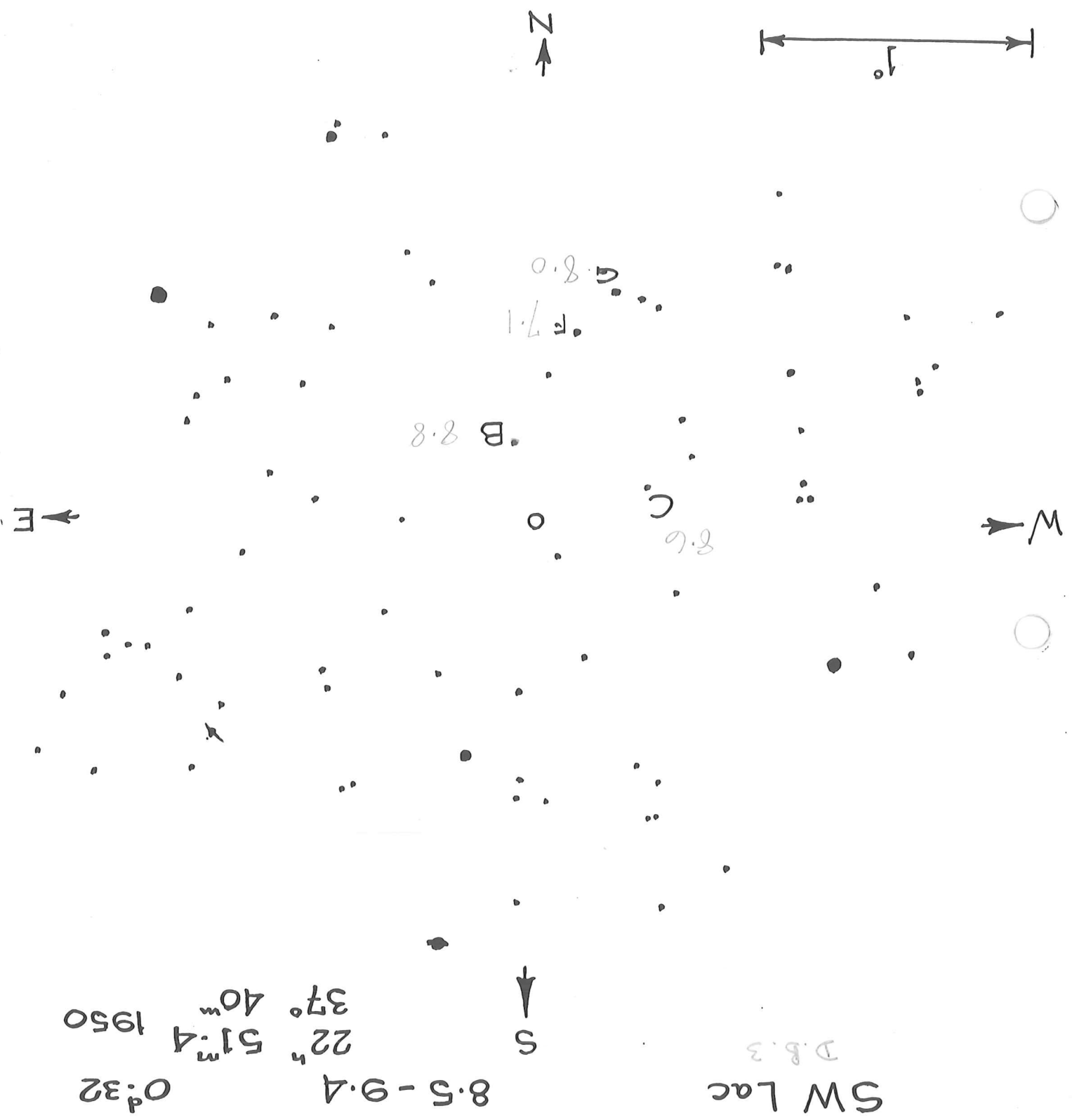


RT Lac	EB	8.8-9.9	5.0-0.7
DB5		21 ^h 59 ^m 39'	1950
		43°	

J.W. used Brad check & F as comparison. FILE 1005 1

SAO	RA	Dec.	mv	Sp.
B 072826	22 ^h 52 ^m	37° 57'	8.8	—
C 072793	22 ^h 50 ^m	37° 48'	8.6	—
F 072806	22 ^h 51 ^m	38° 21'	7.1	Mo
G 072799	22 ^h 50 ^m	38° 29'	8.0	Ab.

B+C added 1986 Oct 4



SAO RA Dec. m v Sp.



N



W

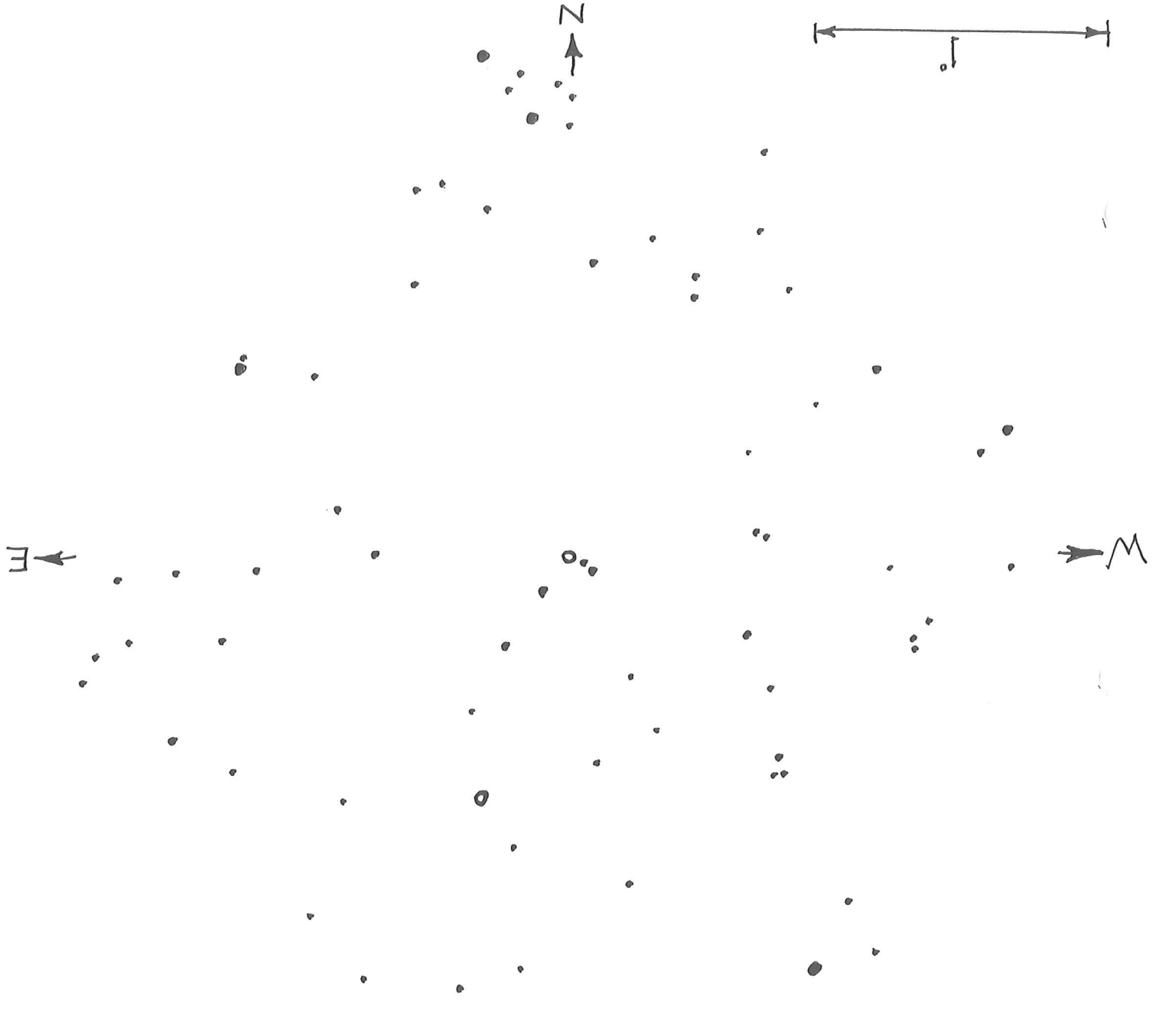
E

S

V364 Lac

9.3 - 9.7
22^h 50.0
38° 29'

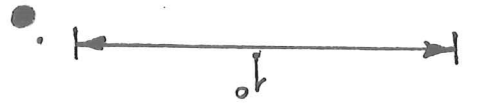
7.35^d
1950



JWE

SAO	RA	Dec.	m _v	Sp.
B 099421	11 ^h 01 ^m	18° 13'	8.2	K2
C 118592	10 ^h 55 ^m	09° 56'	8.5	G5

N



B

E

W

C

S

0.37^d
1950

10^h 59^m 6
10° 10'

8.0-8.7

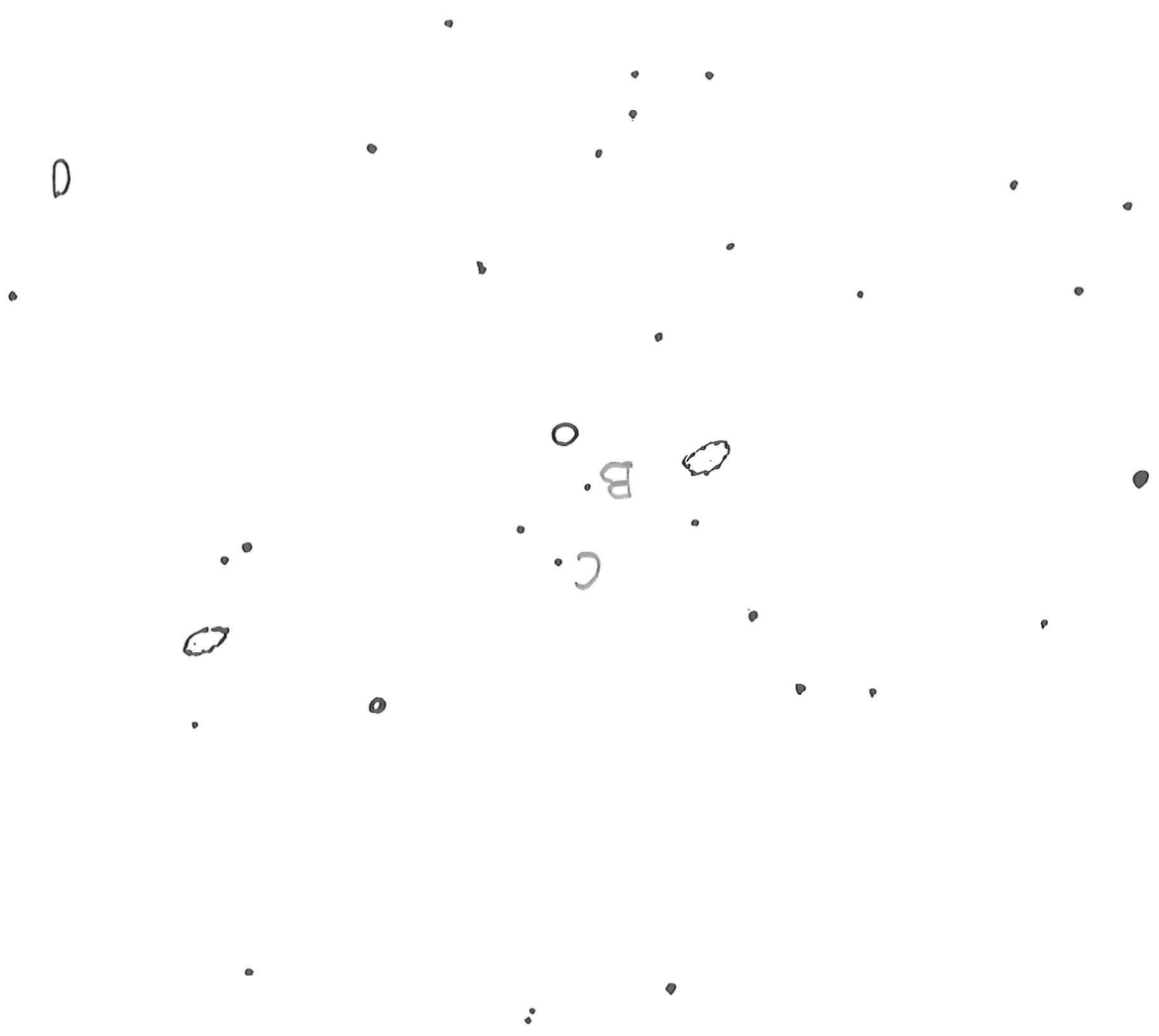
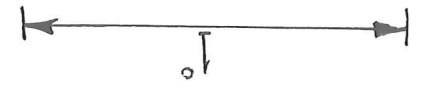
EW

AM Leo
DSC

JWE 1986 Jan

B7C added 1986 Mar 31

SAO	RA	Dec	mv	Sp.
B 099221	10 ^h 35 ^m	14° 23'	8.9	KO
C 099223	10 ^h 36 ^m	14° 13'	8.3	F5

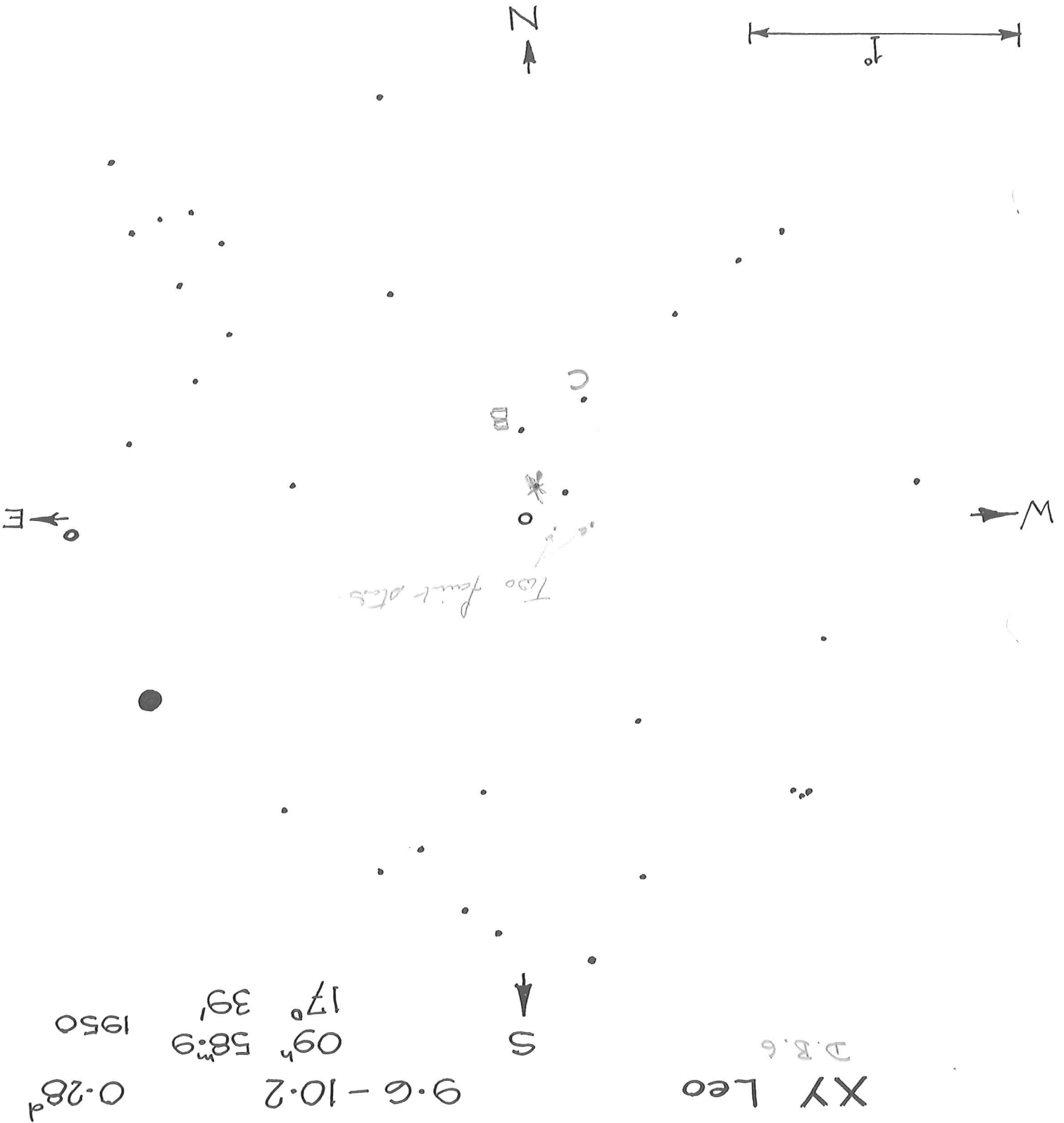


UV Leo 236
 8.9 - 9.6
 S
 10^h 35^m 4 14° 32'
 1950
 0.6

JWF 1986 Jan

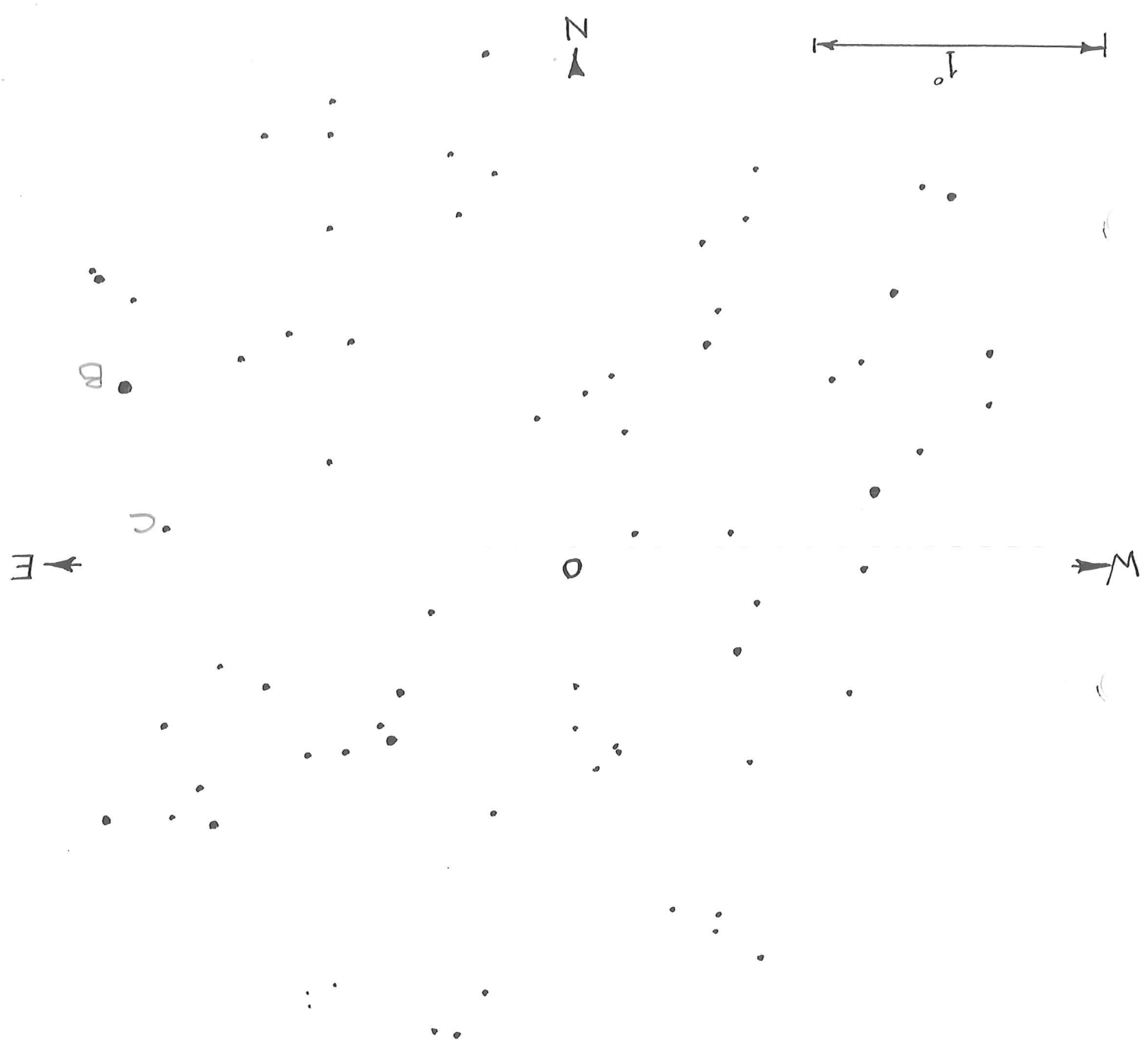
B & C + 2 faint stars added 1988 Mar 22.

SAO	RA	Dec.	mv	Sp.
B 098904	09 ^h 59 ^m	17° 59'	9.1	
C 098895	09 ^h 58 ^m	18° 06'	9.3	



B&C added 1988 Dec 18

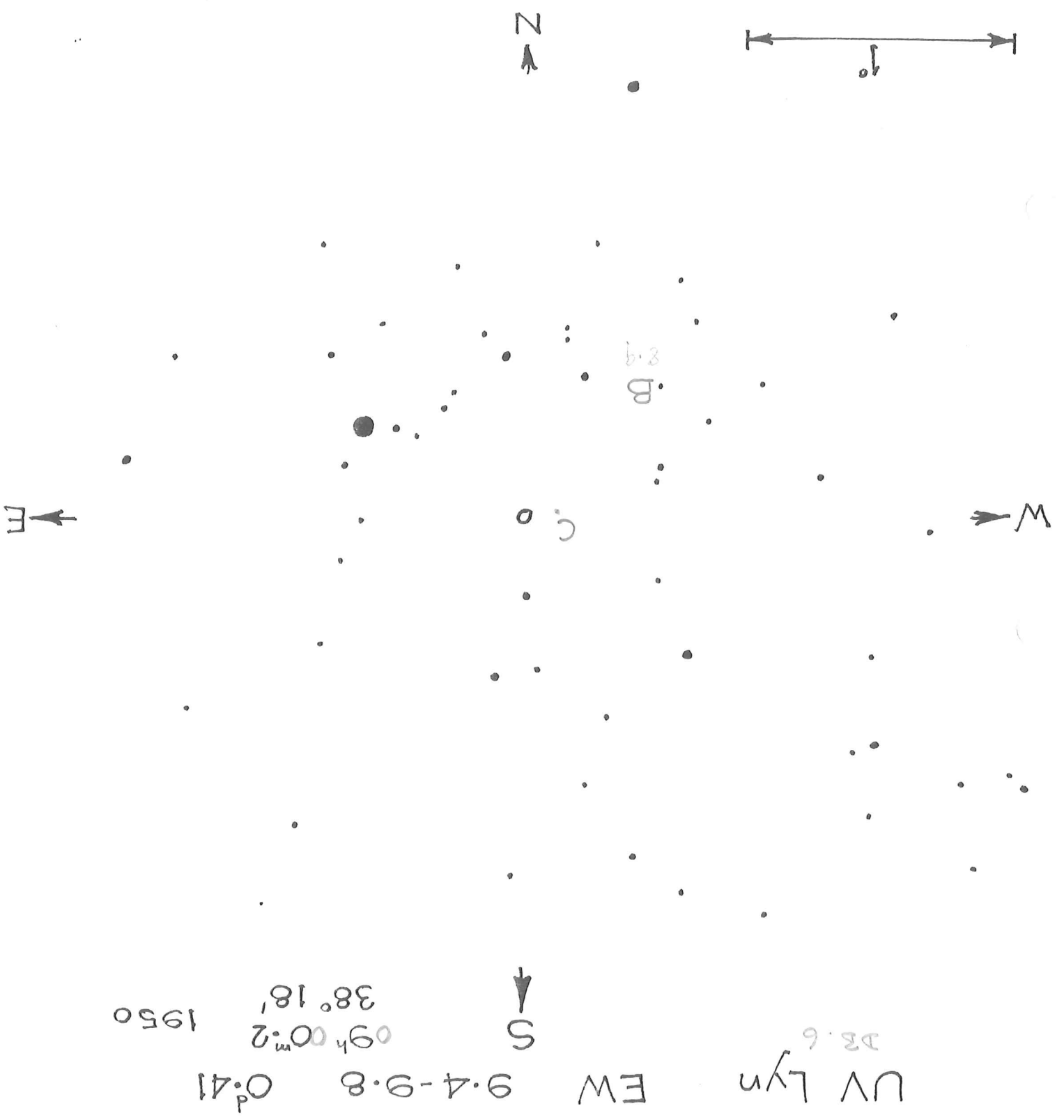
SAO	RA	Dec.	m_v	Sp.
B 025842	$06^h 33^m$	$56^{\circ} 54'$	5.7	A0
C 025829	$06^h 32^m$	$56^{\circ} 26'$	6.5	F2



RR Lyr 1987
 5.5 - 6.0
 $06^h 22^m 2$
 $56^{\circ} 19'$
 1950
 9.95d

C not shown on SAO or AVSO, added to chart at telescope.
 Stars B & C chosen 1988 Mar 3. J.W.F.

SAO	RA	Dec.	m_v	Sp.
B 061195	$08^h 58^m$	$38^{\circ} 46'$	8.9	—
C	$08^h 59^m$	$38^{\circ} 20'$	—	—



SAO

RA

Dec.

m_v

Sp.



W

S

E

NSV 04031 Lyn

8.0 - 8.8

8⁵ 19^m5

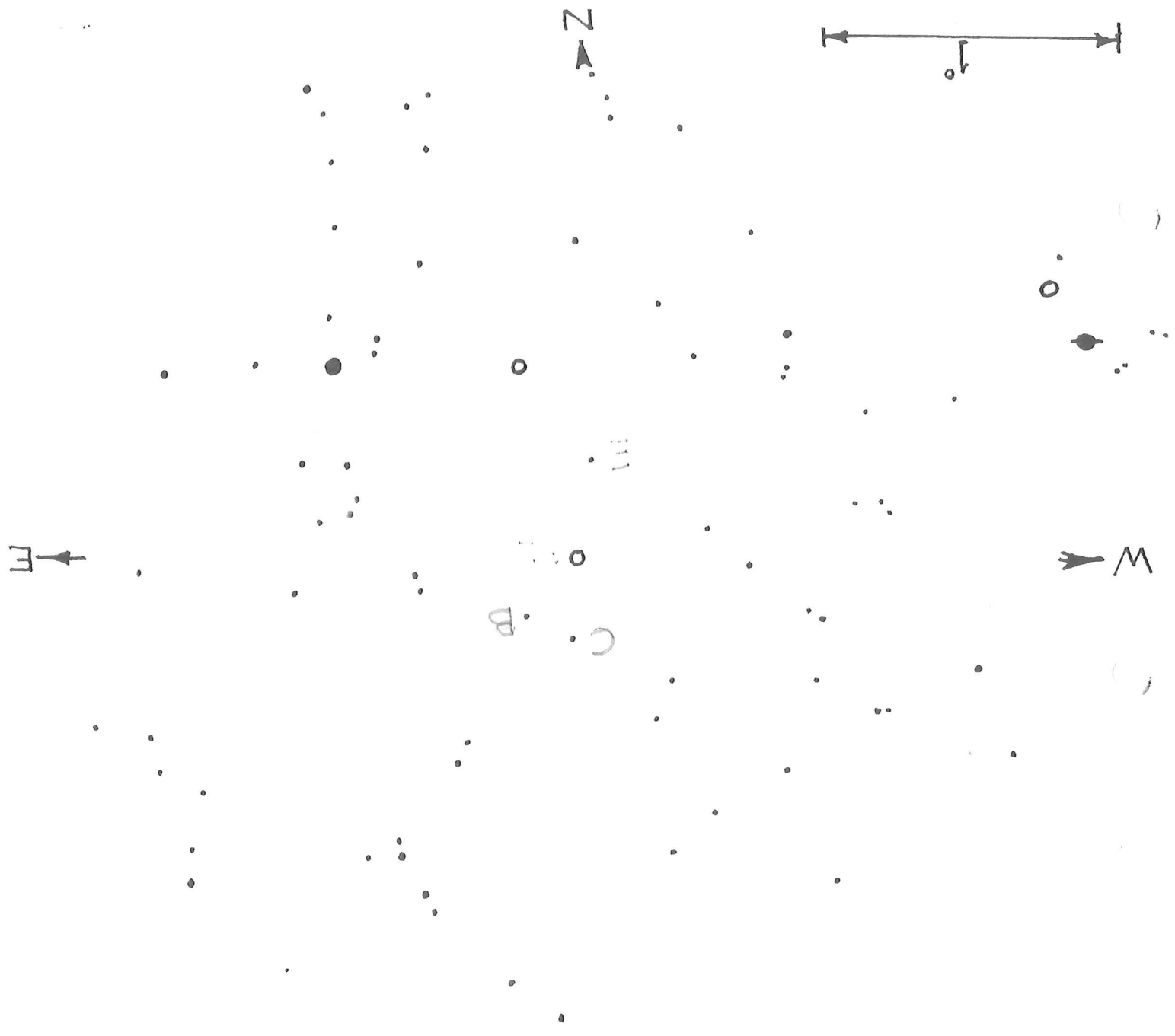
45° 37'

1950

Feb

Excluded from prediction list.

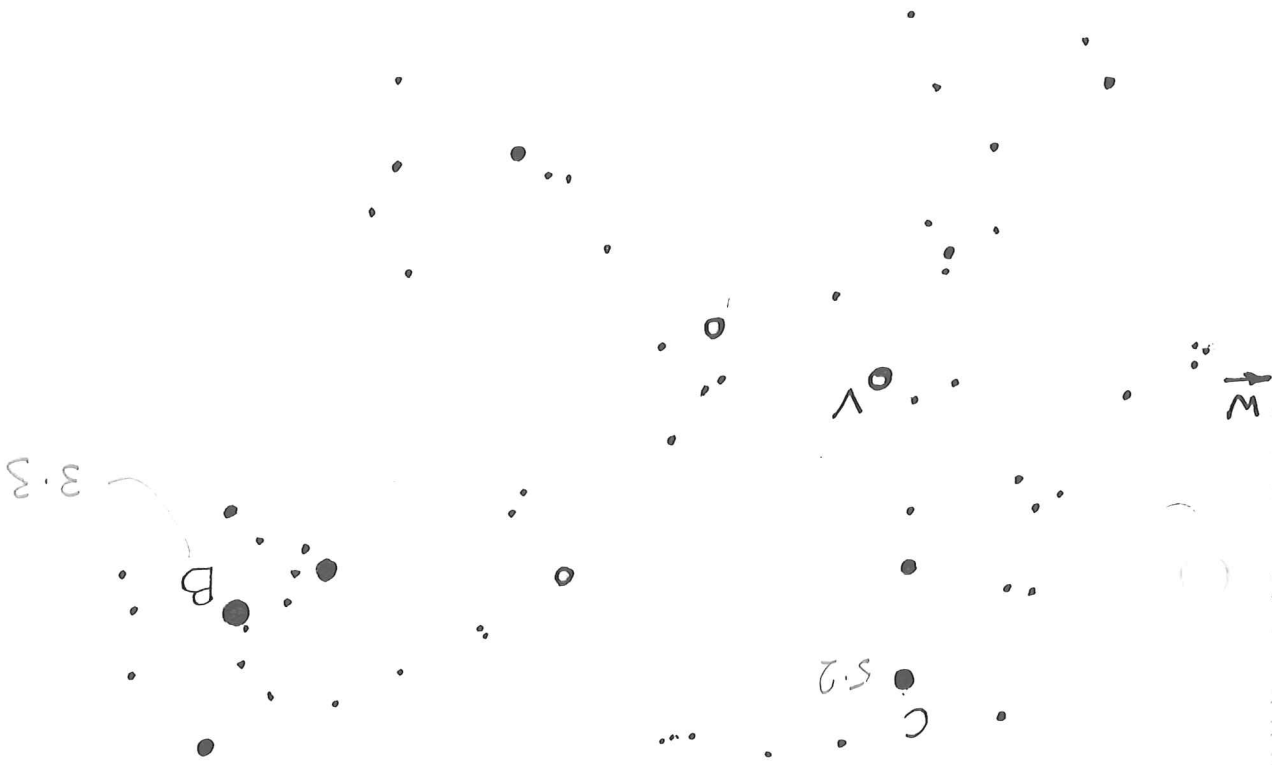
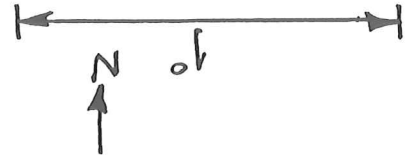
SAO	RA	Dec	m_v	Sp.
048180	19 ^h 10 ^m	46° 34'	8.8	K
048197	19 ^h 11 ^m	45° 57'	9.1	
048212	19 ^h 12 ^m	45° 02'	8.9	



FL Lt D.86
 EA 8.7-9.3
 2d.18
 19h 10m.6
 46° 14'
 1950

JWE

SAO	R.A.	Dec.	m _v	Sp.
C 067446	18 ^h 48 ^m	32°30'	5.2	A2
B 067663	18 ^h 57 ^m	32°37'	3.3	A0



12.9
18^h48^m
33°18'
1950

OFF-CENTRE !!

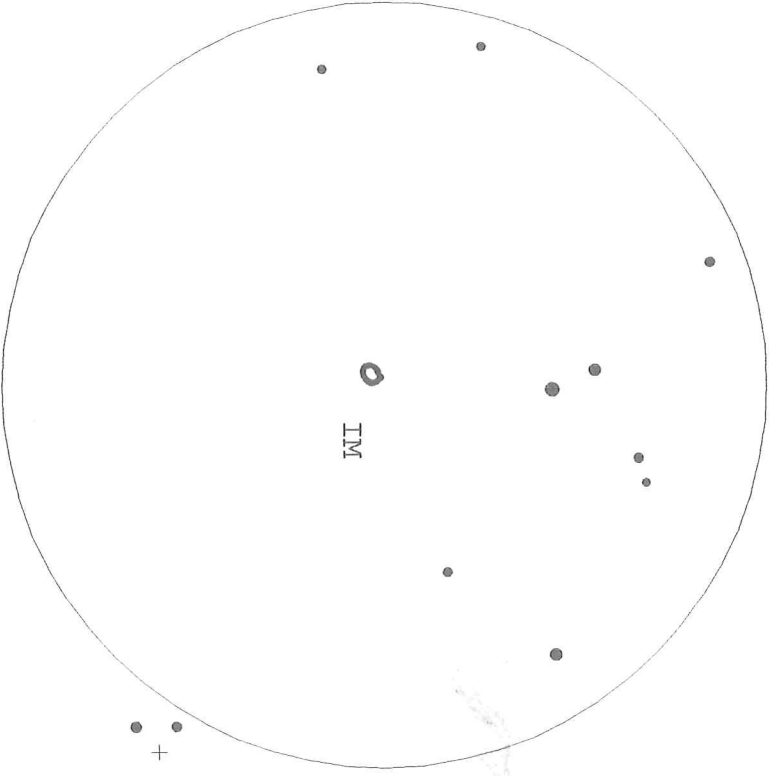
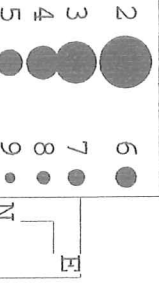
3.3 - 4.4

EB

β Lyr.



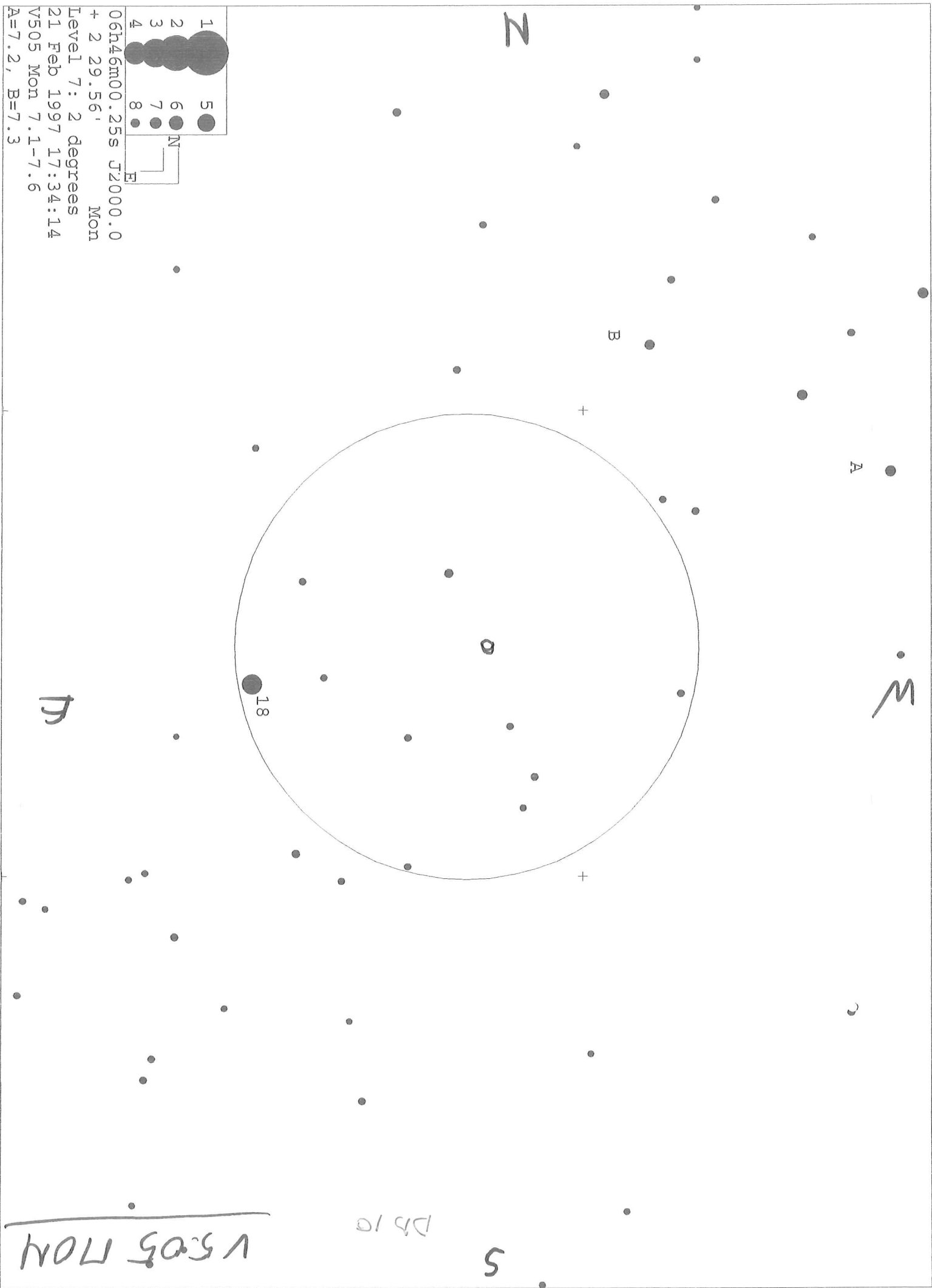
06h23m05.25s J2000.0
 - 3 17.76'
 Level 7: 2 degrees
 16 Feb 1997 17:44:38
 IM Mon 6.4 - 6.49
 A=Comp=7.0
 B=Check=6.5



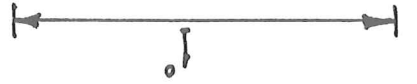
IM MON
 BB 10

A

B



SAO RA Dec. m_v Sp.



N
↓

← E

← W

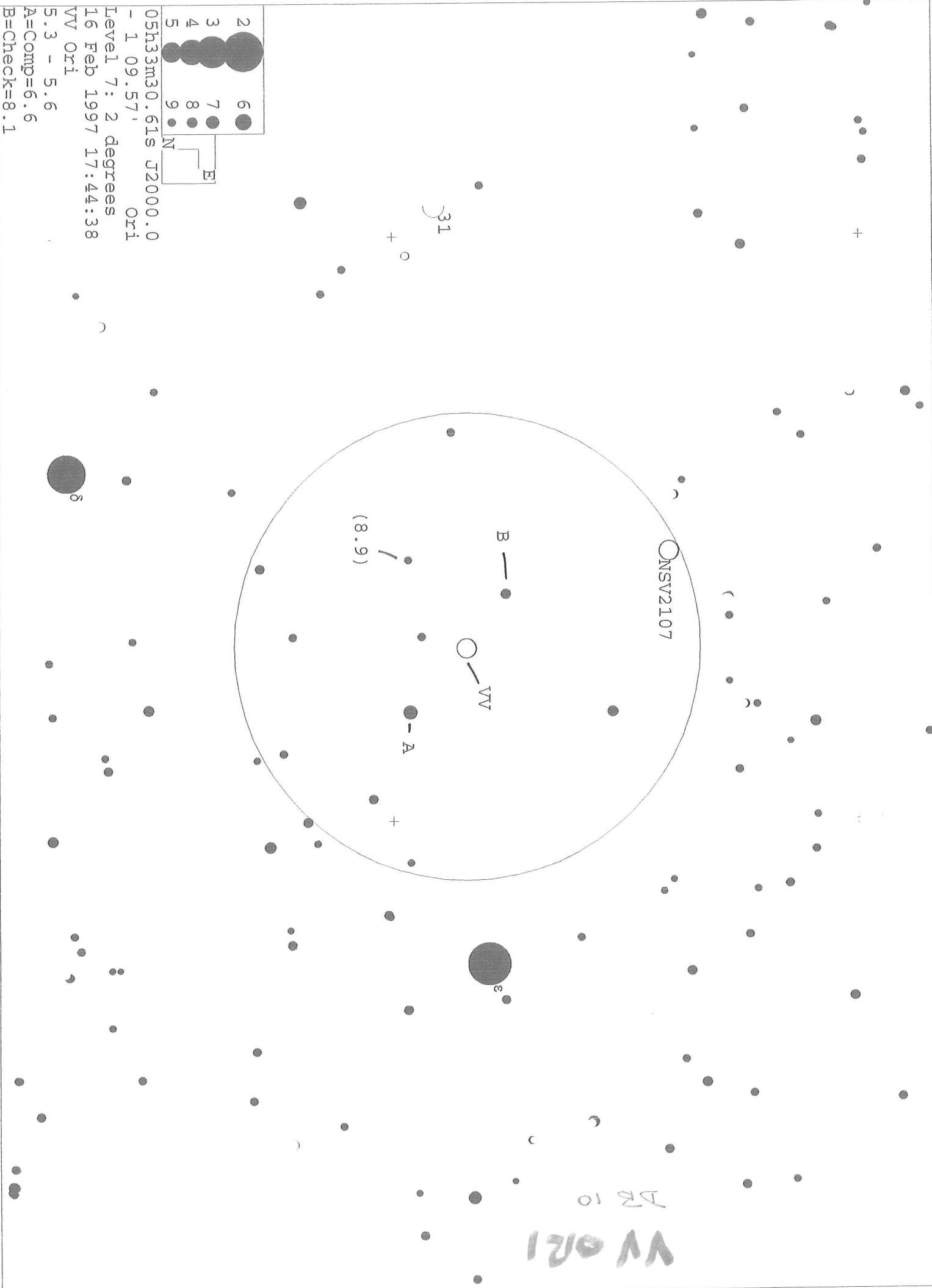
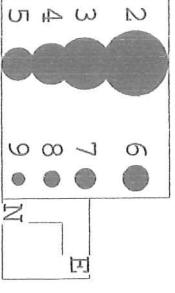
1950

3^d 15
6^h 11^m 0
21° 27'

S
↓

FT O+ EA 9.1 - 9.9

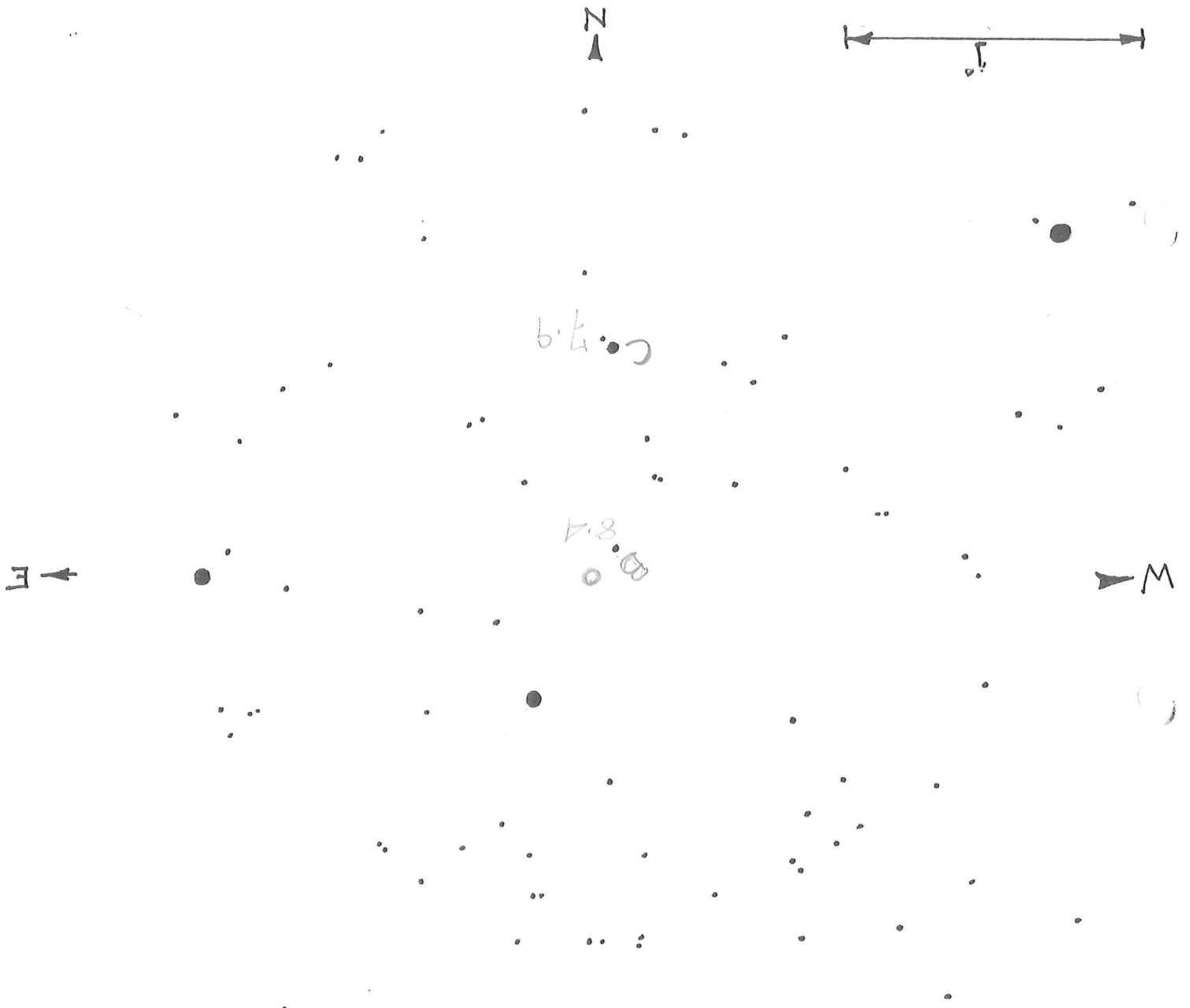
05h33m30.61s J2000.0
 - 1 09.57' Ori
 Level 7: 2 degrees
 16 Feb 1997 17:44:38
 WV Ori
 5.3 - 5.6
 A=Comp=6.6
 B=Check=8.1



WV ORI
 BR 10

JWE

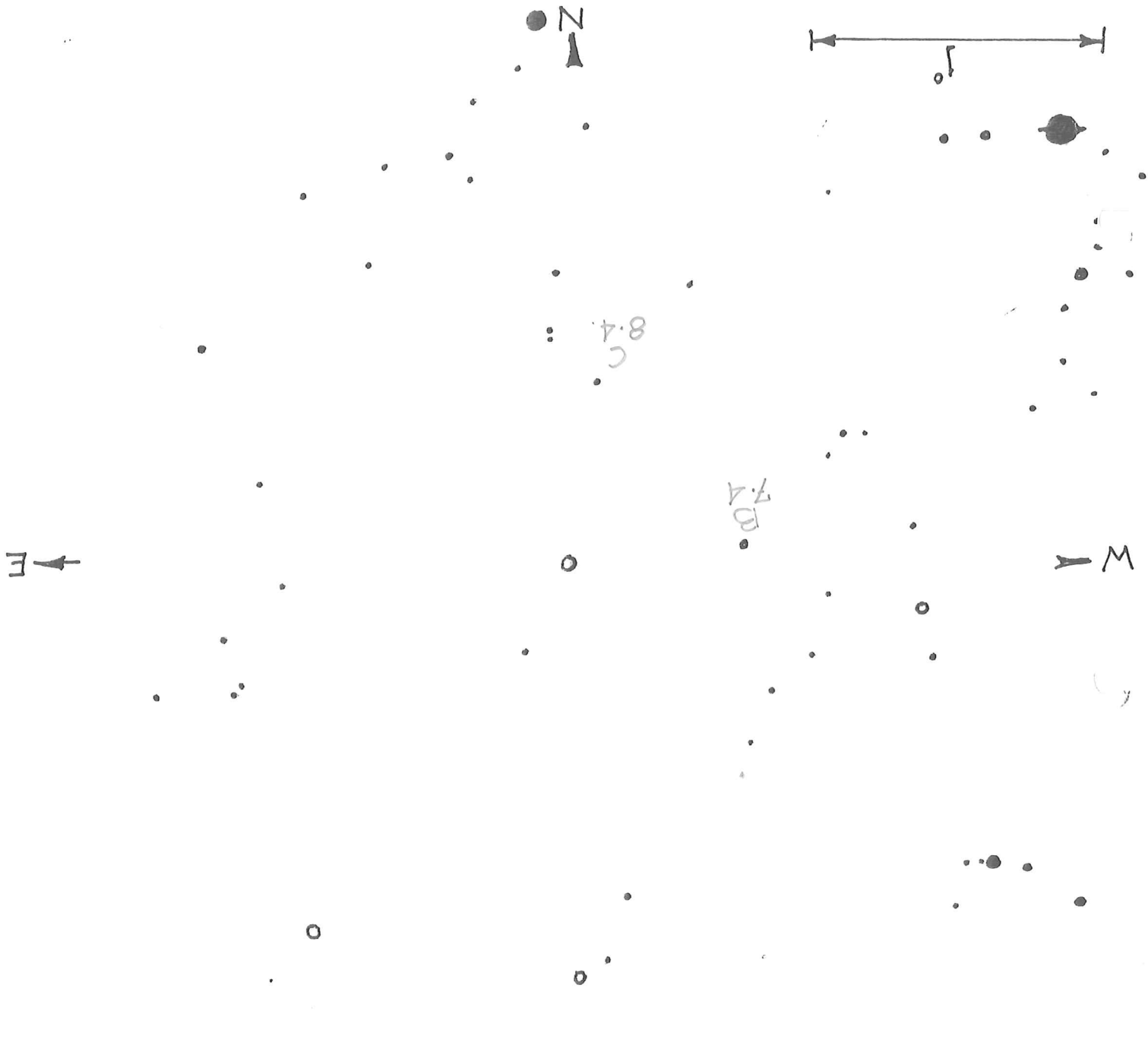
SAO	RA	Dec.	mv	Sp.
B 103760	18 ^h 27 ^m	10° 57'	8.4	A2
C 103763	18 ^h 27 ^m	11° 37'	7.9	G0



V 451 Op. 7.9-8.5
 18^h 26^m 9
 10° 51'
 1950
 S
 EA
 D. 8.4

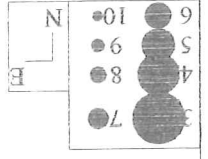
JWE

SAO	RA	Dec.	m _v	Sp.
C 090055	21 ^h 50 ^m	24° 27'	8.4	G5.
B 090034	21 ^h 47 ^m	23° 51'	7.4	K5

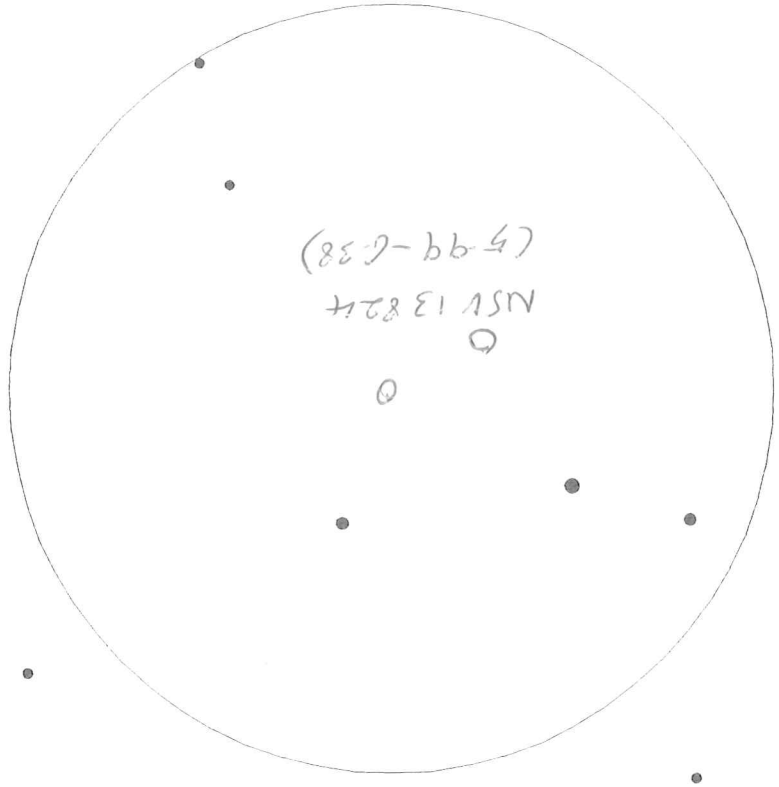


AW Peg	EA	RA	Dec.	m _v	Sp.
		7.4-8.6	7.8-9.2	10 ^d .62	
		21 ^h 50 ^m	23° 48'	1950	

23 Dec 1999 17:33:15
Level 7: 2 degrees
Alt 41.405 Az 221.343
+ 9 11.06 Peg
21h40m01.76s 12000.0



Comp = HD 20 6675 = 7.79 = 60
Check = HD 20 6527 = 8.20 = 100



Comp

Check

EE Peg

D 8 11

21h44m

21h42m

21h40m

21h38m

N 10

N 9 30

N 9

N 8 30

N 8

1987 Nov 15. J.W.F.

Field as shown - faint star added near star to assist identification.

SAO	RA	Dec.	m _v	Sp.
107452	21 ^h 47 ^m	14° 53'	8.8	
107444	21 ^h 49 ^m	14° 57'	8.9	
107456	21 ^h 50 ^m	14° 56'	9.1	K5



N

E

W

B
C
E

S

1950

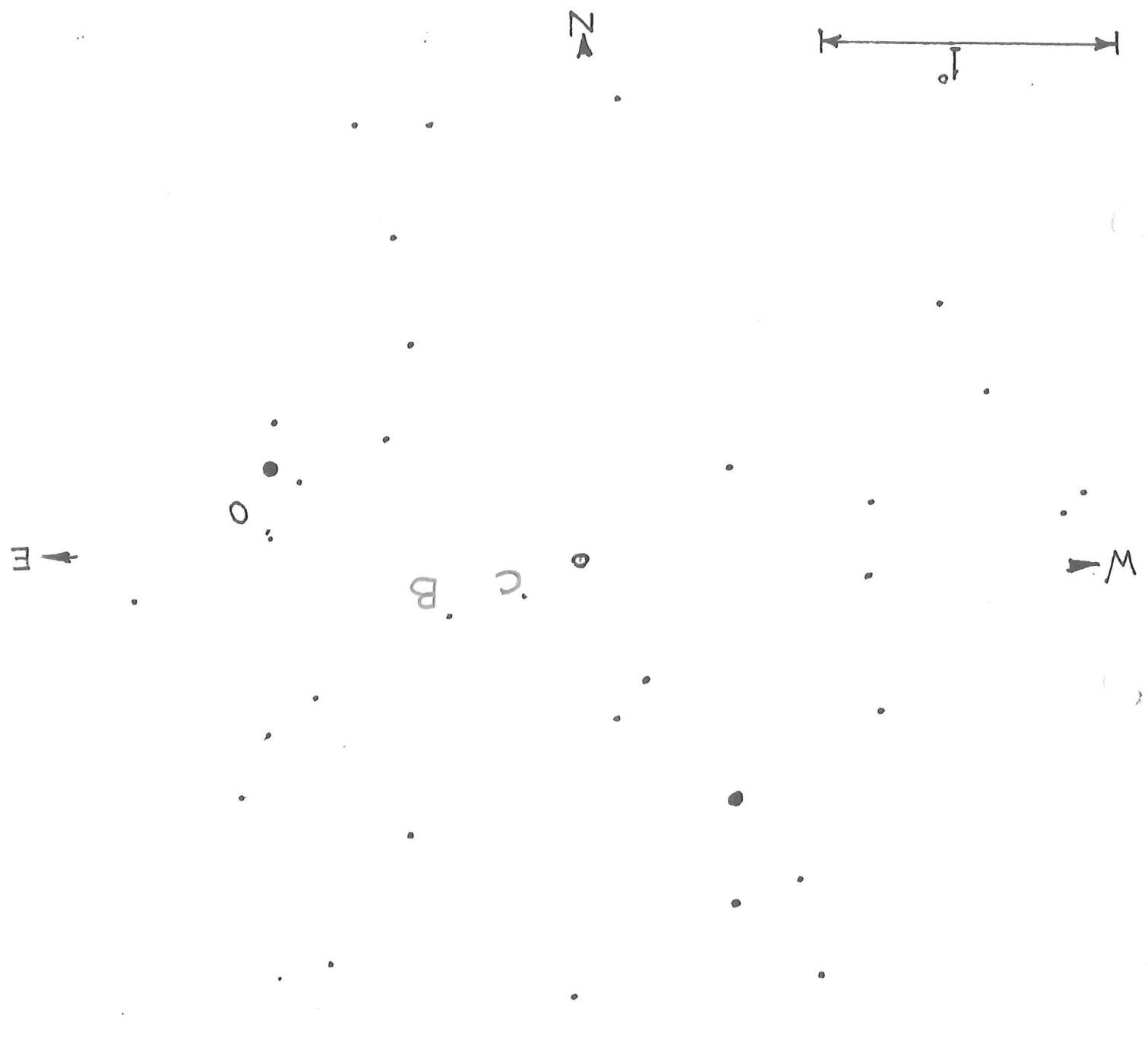
2^d 56
21^h 48^m 15^s 00'

EA 8.8 - 9.3

GH Reg DB6

1985 Dec. B. rechenen.

SAO	RA	Dec	m_v	Sp
108949	23 ^h 57 ^m	15° 30'	8.8	A
108942	23 ^h 56 ^m	15° 34'	8.8	;



U Peg 9.2-9.8 EW 0.37
 D84 23^h 55^m 4 15° 40' 1950
 S ↓

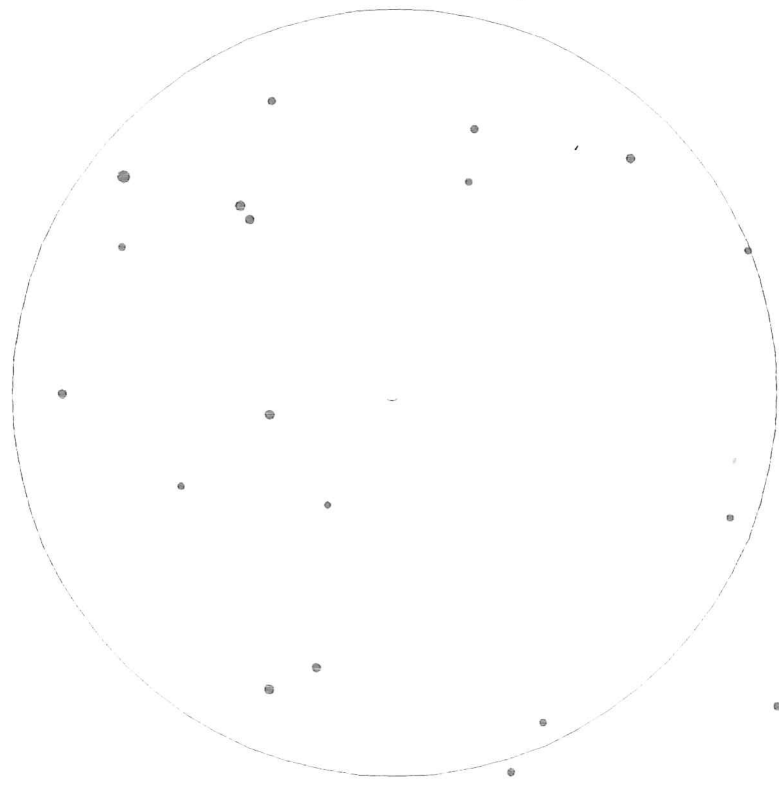
13 Jan 2000 15:30:50
Level 7: 2 degrees
Alt 33.378 Az 76.397
+33.2676 Per
4h06m54.69s J2000.0

6	●
10	●
5	●
9	●
4	●
8	●
7	●

N
E

Comp = HD 26311 = 5.73 = K0
Check = HD 25539 = 6.88 = B3

[Faint handwritten notes]



Comp

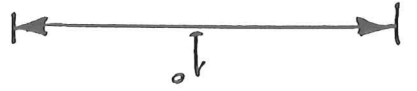
Check

AG Per

DB 11

JWE

SAO	R.A.	Dec.	m _v	Sp.
B 056047	02 ^h 56 ^m	39° 28'	4.6	A2
C 056224	03 ^h 08 ^m	39° 25'	4.8	K0



2.87
 03^h 04^m 9
 40° 46' 1950

2.1-3.4

EA

Per

✓ 3

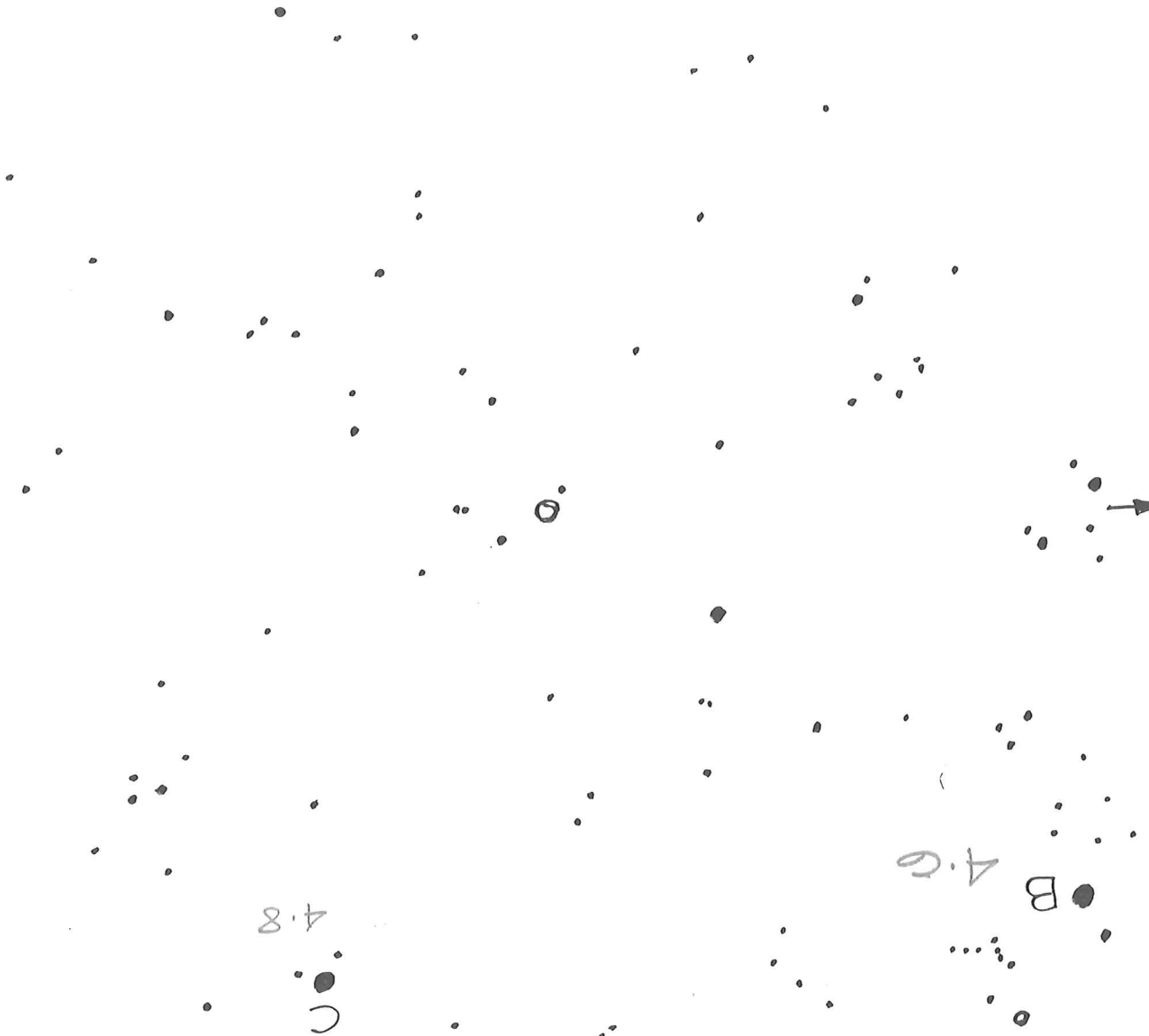
DBT

4.6

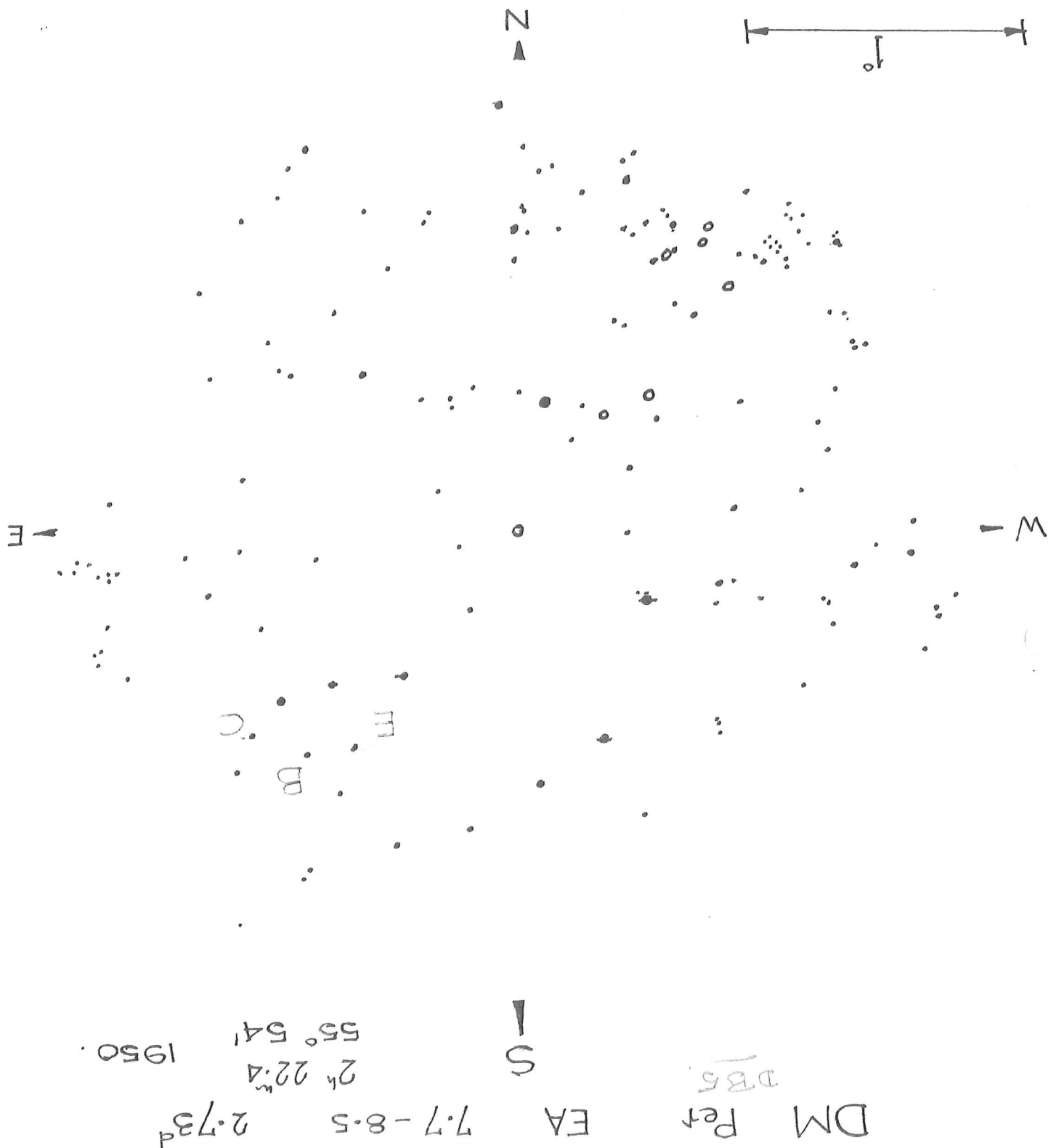
B

4.8

C



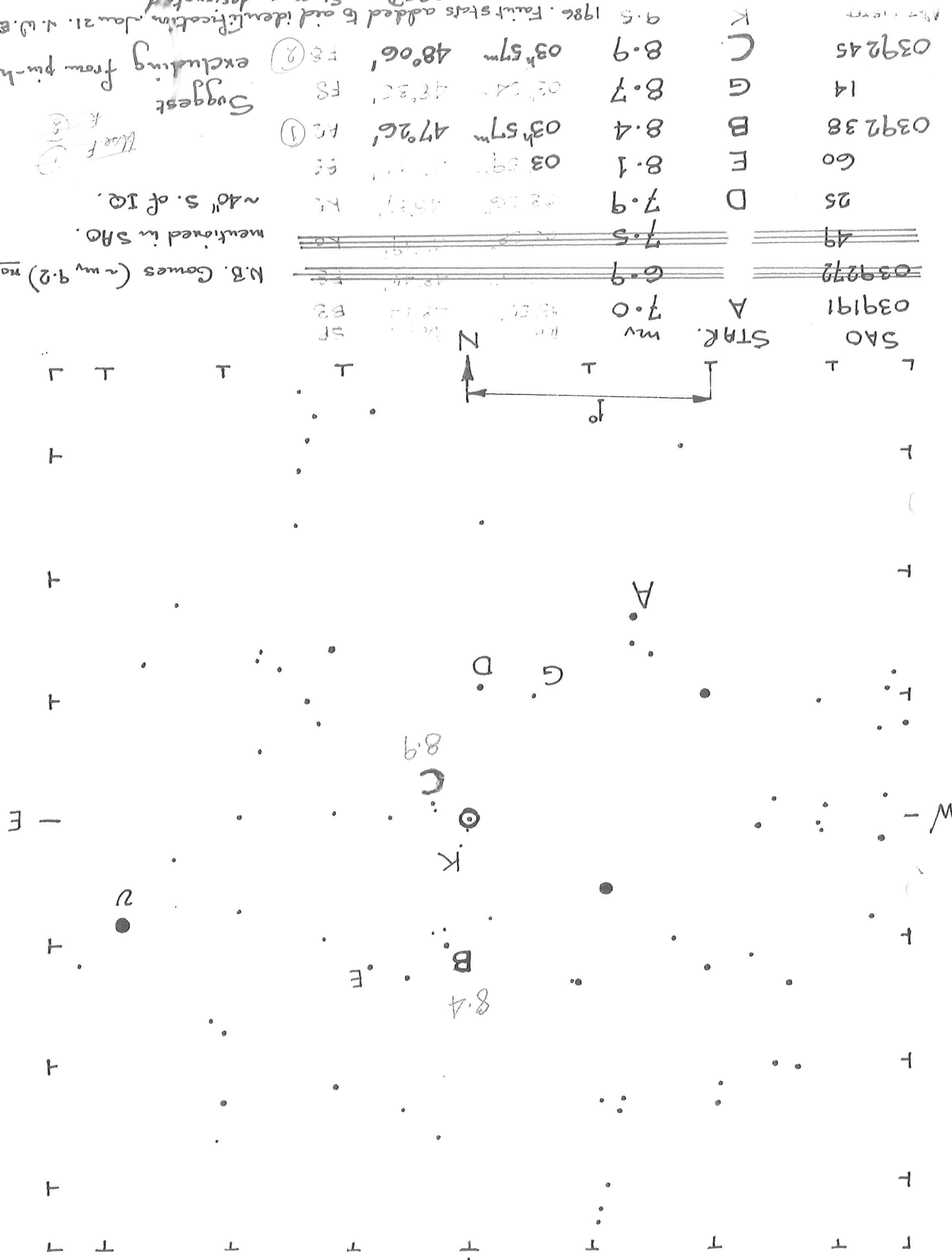
SAO	RA	Dec.	m _v	Sp.
B	02 ^h 28 ^m	55° 04'	8.2	A0
C	02 ^h 29 ^m	55° 06'	8.4	B2
E	02 ^h 27 ^m	55° 07'	8.0	K0



035247 IQ PERSEI 8.0-8.7 EA 1.74^d

N.B. C-file sequence does not centre on IO because of comas

RA. 03^h56^m.1 } 1950
Dec. +48° 01'



039245	C	8.9	03 ^h 57 ^m 48°06'	FS 2
14	G	8.7	03 ^h 57 ^m 48°30'	FS
039238	B	8.4	03 ^h 57 ^m 47°26'	FS 1
60	E	8.1	03 ^h 59 ^m 47°11'	FS
25	D	7.9	03 ^h 58 ^m 46°57'	M
49		7.5		
039272		6.9		
039191	A	7.0		FS

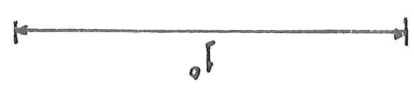
N.B. Comas (~mv 9.2) not mentioned in SAO.
~40' S. of IQ.

Suggest excluding from pin-hole

1986. Faint stars added to old identification. Jan 21. N.W.E.
1985 Dec Stars re designated.

JWE

RA	Dec	SP	MV	SAO	MU
B 01 ^h 29 ^m	54° 14'	B8	8.9	022371	8.9
C 01 ^h 27 ^m	53° 23'	A2	8.8	022344	8.8

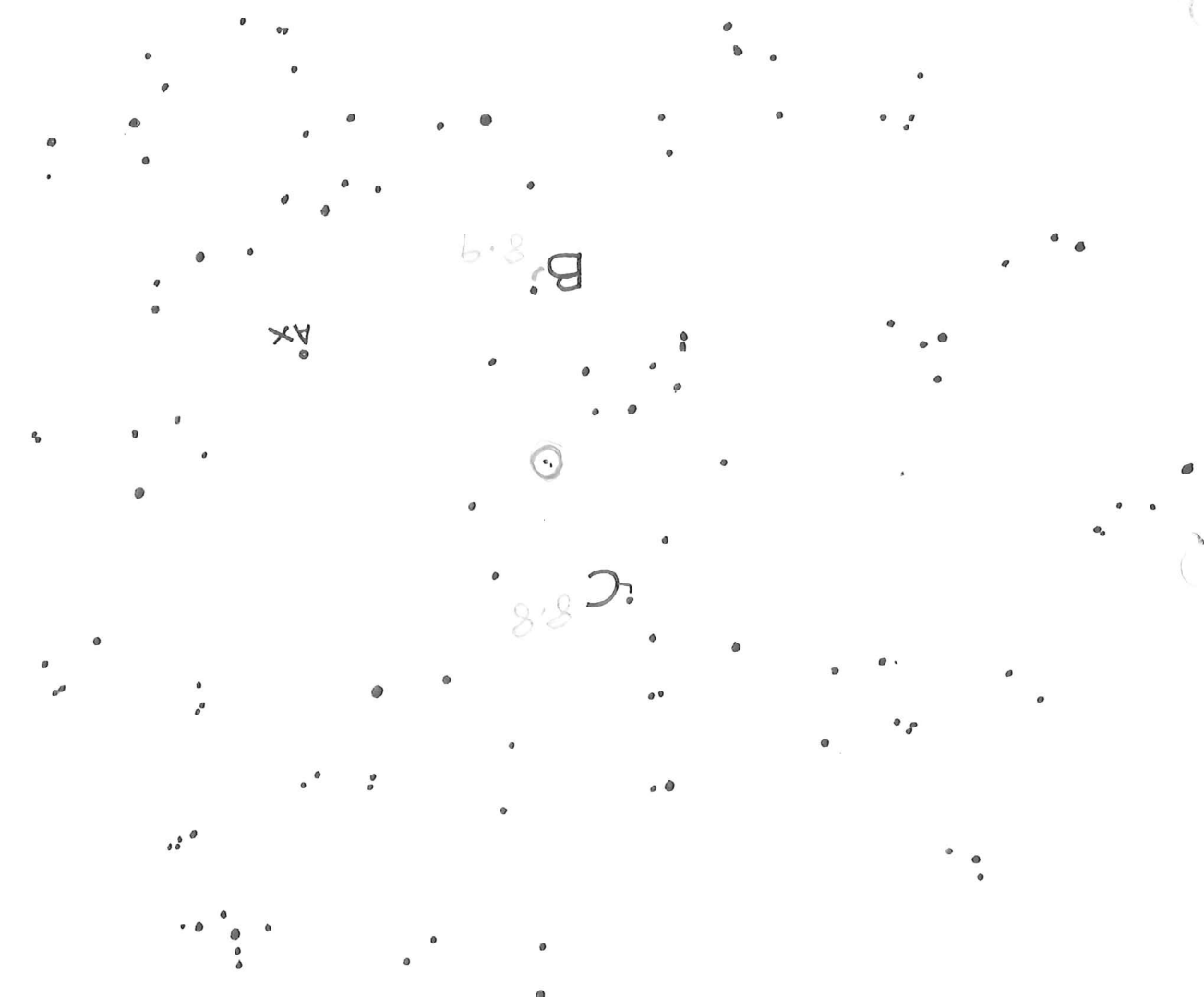


N

S

-E

W



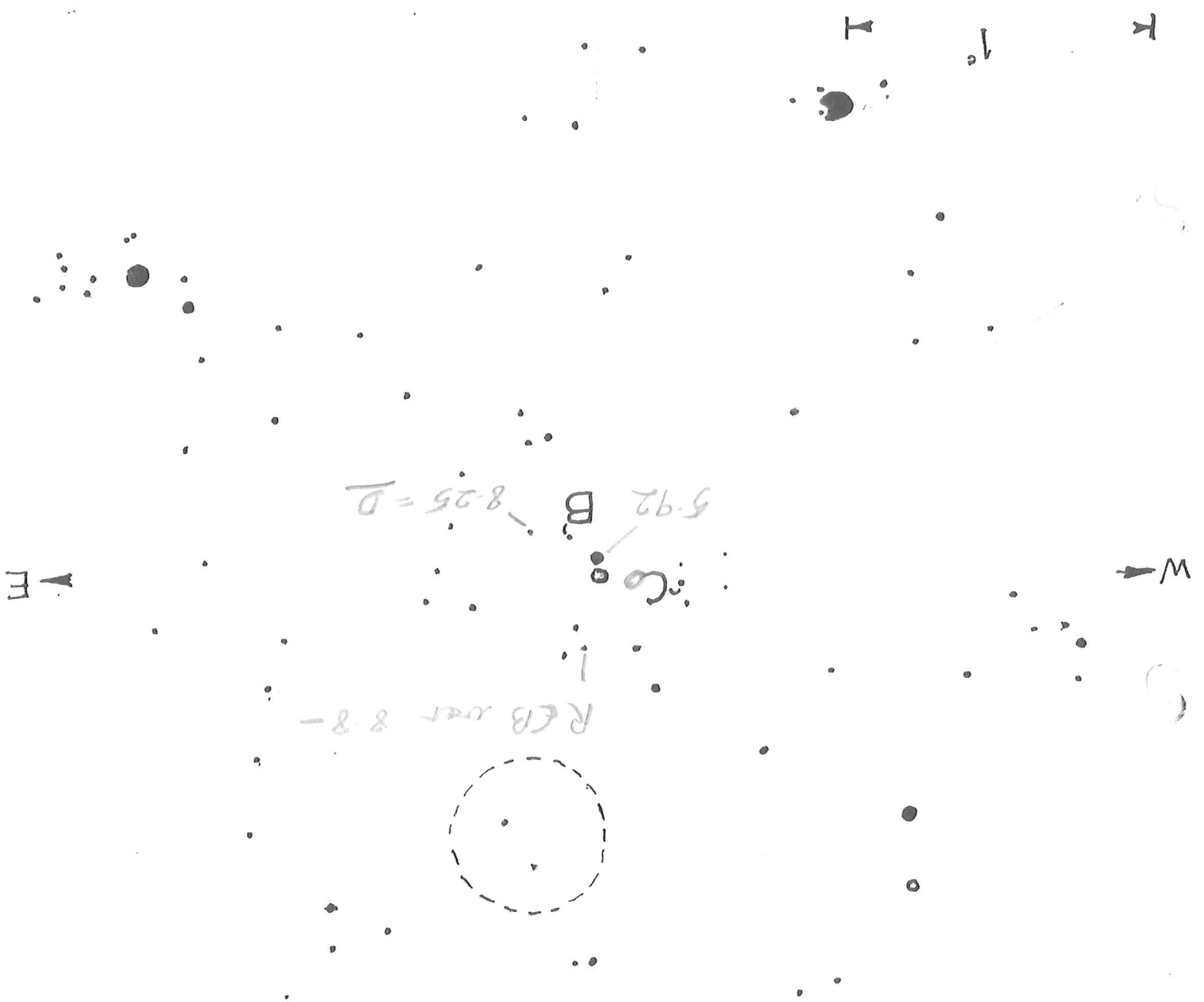
R.A. 01^h 28^m 9
 Dec 53° 46' 1950.

D. 86

IZ PERSEI 7.8-9.0 EA 3.69^d

1986 Jan 26. B+C chosen. Some faint stars added to aid identification. J.W.E.

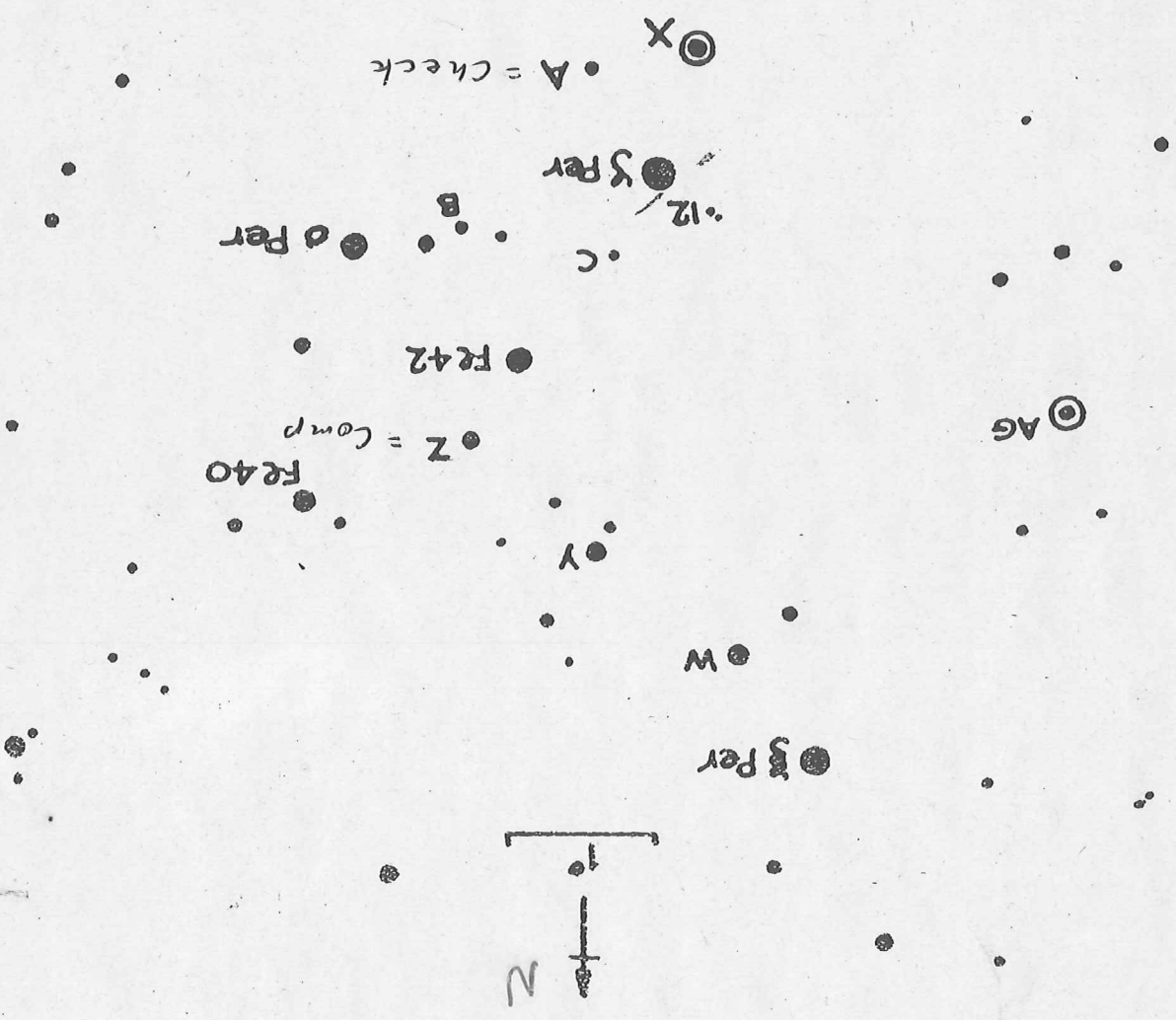
	SAO	RA	Dec.	mv	Sp.
B	038660	03 ^h 11 ^m	48° 06'	8.8	
C	038628	03 ^h 08 ^m	47° 52'	8.8	FO = Ca
D	38673	03 15	48 17	8.25	KO = check



8^d 04
 03^h 09^m 8
 47° 55'
 1950
 (RS CVn)

LX Per EA 8.2-9.2
 DB 6
 See Revised above on sep. sheet II

ERUPTIVE
 GC
 034930 X Persei 6.0 - 7.0V GC 09.5
 (1950) $03^h 52.2^m + 30^s 54'$
 N.5



Sources:
 BS, Hagen, JEI.

BAA
 VSS

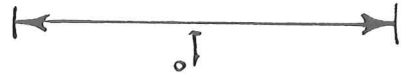
JEI 1969 July 14
 Redman MDT
 1972 May 27 and
 1984 April 8.

R40 5.04 Y 5.73 Z 6.36
 R42 5.10 A 6.1 C 6.6
 W 5.48 B 6.23 12 8.2

AG Per, 6.7-7.0V, EA, 2.0^d.

Z V MAG = 6.57
 Z B MAG = 6.65

SAO RA Dec. mv Sp.



N

E

W

S

V 436 Per

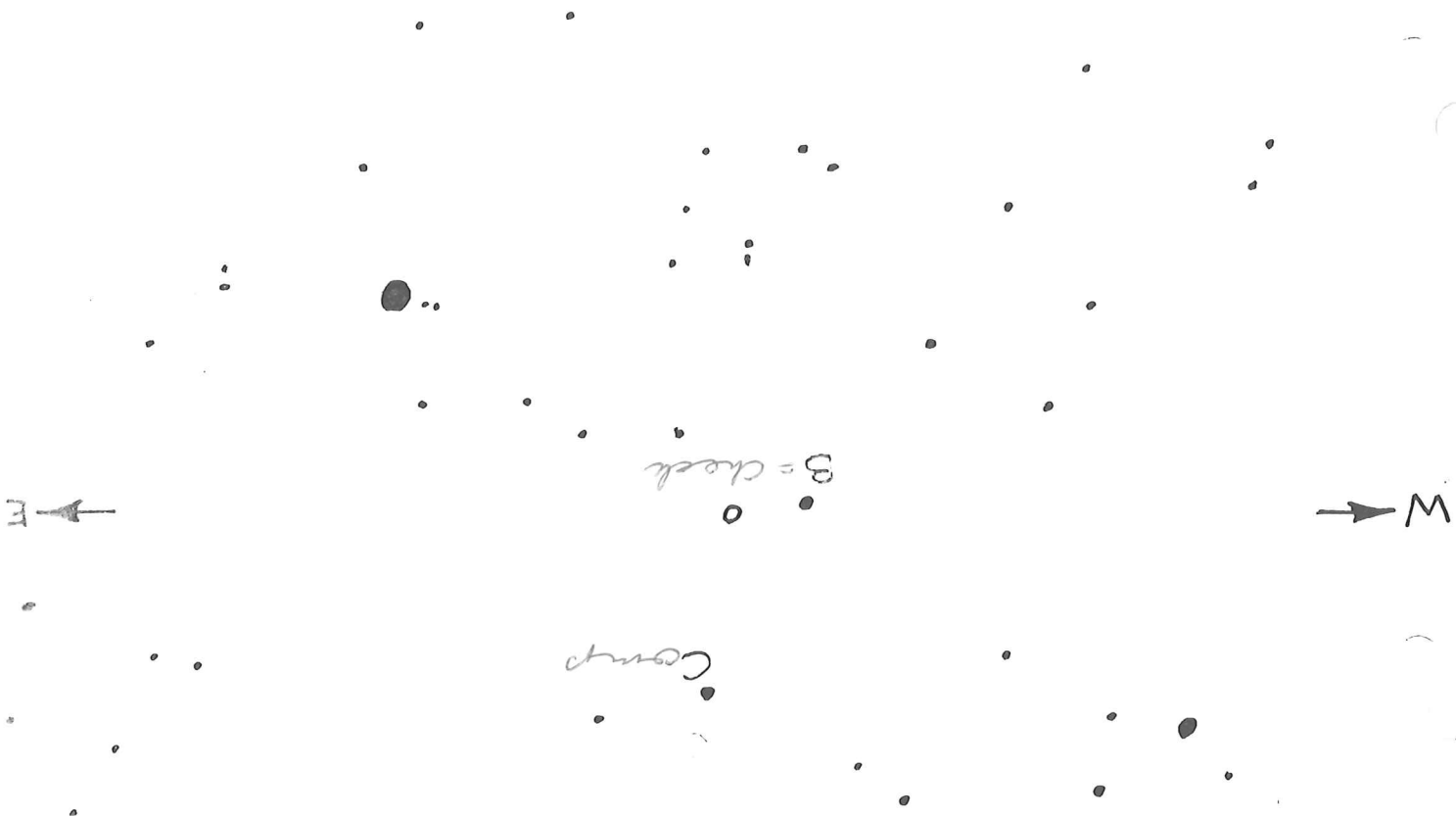
5.5 - 5.9

25^d 9
 1950 48^m 7
 54' 54" 1950

*Deleted from
 prediction list
 1989 Jan 27.*

Jue

SAO	RA.	Dec.	m_v	Sp.	Notes
C 128046	$23^h 11^m$	$01^{\circ} 56'$	8.0	F2	Comp
B 128034	$23^h 10^m$	$02^{\circ} 25'$	8.2	G5	check
			7.73		



Rev DB 11

DB7

SZ Psc EA

7.2-7.7

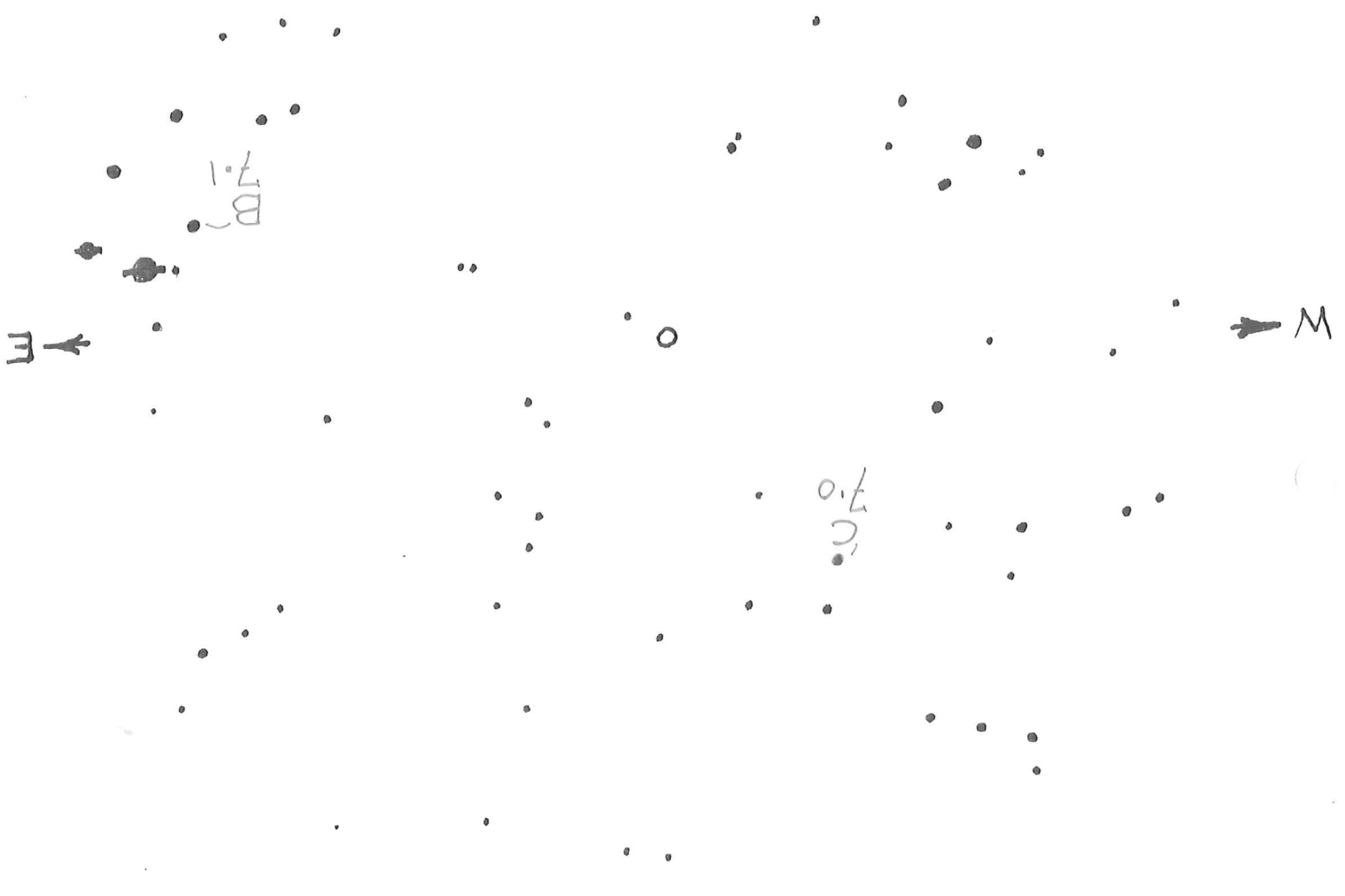


3.96^d
 $23^h 11^m$
 $02^{\circ} 24'$ 1950
 (RS CVn)

JUL

SAO	RA	Dec.	mv	Sp
C 104678	19 ^h 15 ^m	18° 53'	7.0	GO
B 104806	19 ^h 23 ^m	19° 50'	7.1	AO

N



E

W

U Sge EA	DS &	S	3d 38	19 ^h 16 ^m 6	19° 31'	1950
6.6 - 9.2		↓				

987 Feb 22 II 9.5 46° 11' W. (Sunday)

6.8 mag A.D.E.

6.6 Ms. duration

JUNE

Checked to errors in SAO list

SAO	RA	Dec.	mv	Sp.
07705u	05 ^h 12 ^m	20° 02'	8.0	50-
07706u	05 ^h 13 ^m	20° 04'	8.0	K2

x.9

N

E

S

W

C 3m 17.6 18.00
15.5m 17.83

as plotted on HAVSO chart.

accidents to SHO cal cards

(CD Tau) V

CHECK

7.7

E

W

COMPARISON
09u 6.8
05m 6.8 (AD)

3.44d
5h 14m 6
20° 05'

S

7.3-7.9
6.8-7.3

CD Tau EA DB5

Mag range does not agree with BAA vs EBR 1986 data

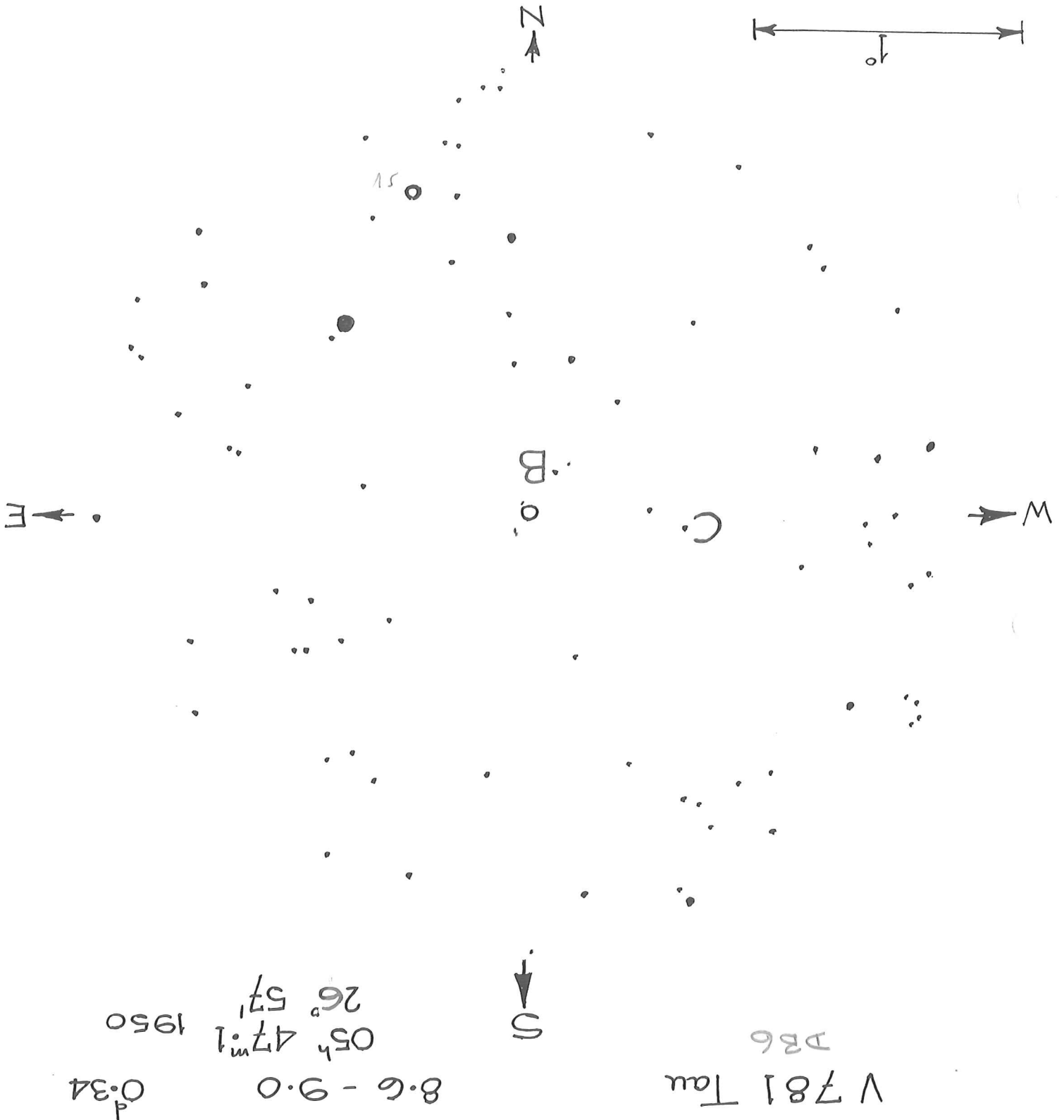
C	094021	04 ^h 33 ^m	19° 52'	7.2	F8
B	094022	04 ^h 33 ^m	19° 47'	6.6	F8
	SAO	RA	Dec.	mv	Sp.



HU Tau
 DBS
 EA
 S
 5.9-6.7
 2.06^d
 4^h 35^m 3
 20° 35'
 1950

B+C designated - 3 faint stars added to assist identification.
 Dec: corrected. J.W.E. 1986 Jan 20.
 1987 1

SAO	RA	Dec.	mv	Sp.
B 077608	05 ^h 47 ^m	27° 07'	9.0	K2
C 077561	05 ^h 45 ^m	26° 54'	8.7	K0



15 Nov 1999 20:30:36
Level 7: 2 degrees
Alt 30.440 Az 100.860
+16 56.89' Tau
4h17m38.56s J2000.0

4	●	8
5	●	9
6	●	10
7	●	11

Comp = HD 27383 = 6.86 = G0
check = HD 27110 = 8.33 = G0

N 17 30'

N 17

N 16 30'

N 16



V818

all = HD 27110

Ca = 6.86 = HD 27383

V985

(RES Clin)

DB 11

V 818 Tau

04h18m

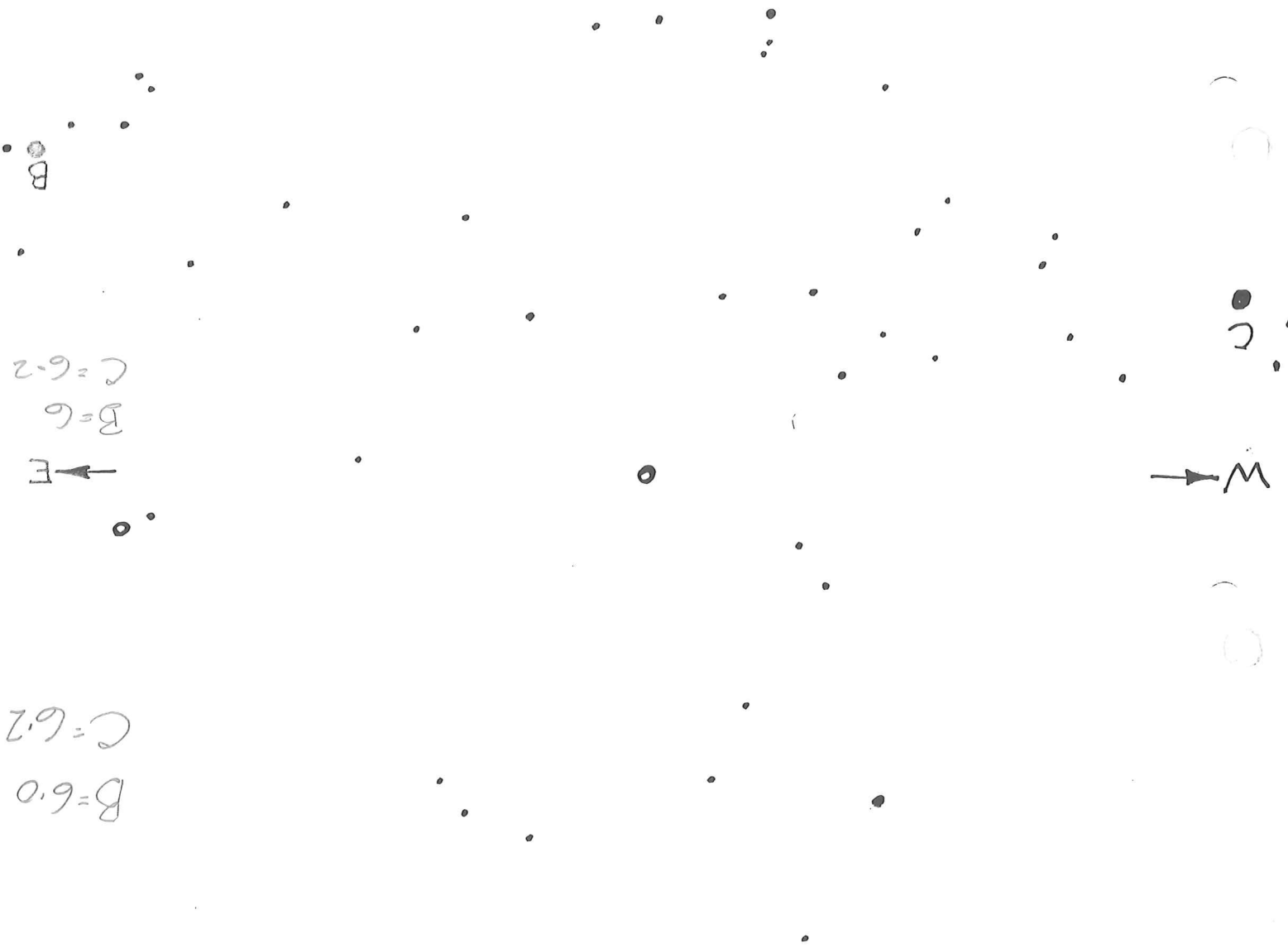
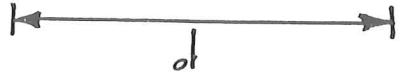
04h18m

04h16m

04h14m

JWE

SAO	R.A.	Dec.	m.v	Sp.
B 093784	04 ^h 06 ^m	13° 16'	6.0	B9
C 093637	03 ^h 48 ^m	12° 54'	6.2	B9



B
 B=6
 C=6.2
 E →

B=6.0
 C=6.2



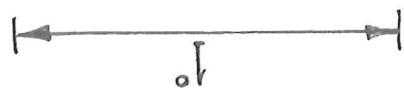
3.95
 03^h 58^m
 12° 21'
 1950

3.4-3.9

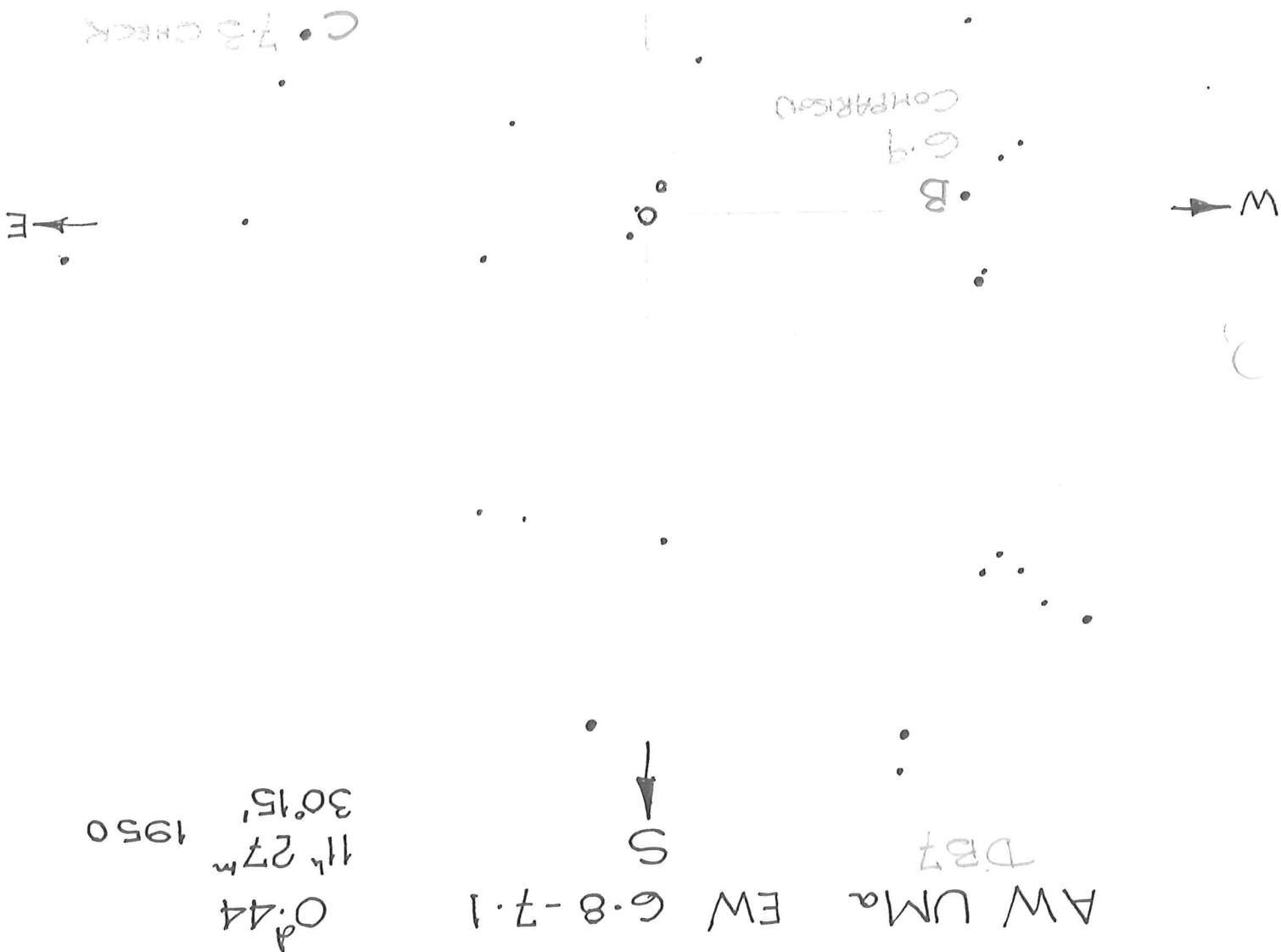
λ Tau EA
 DBZ

Tue

SAO	RA	Dec.	mv	Sp.
B 062550	11 ^h 23 ^m	30° 16'	6.9	F0
C 062611	11 ^h 32 ^m	30° 47'	7.3	K0



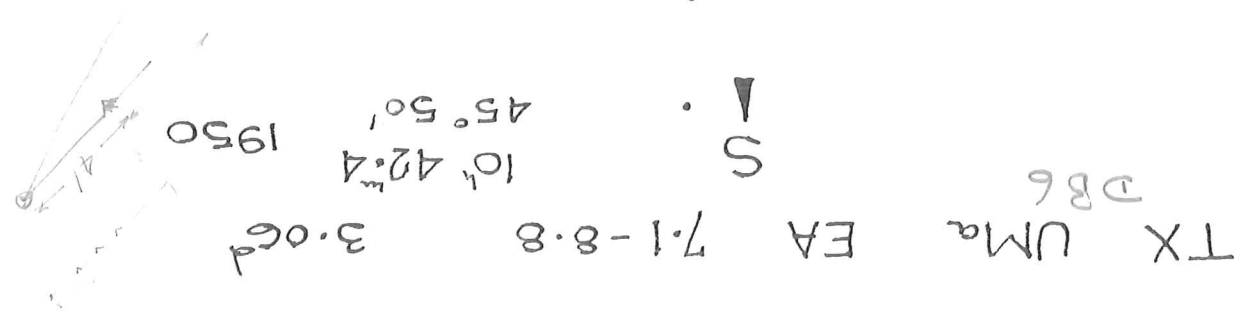
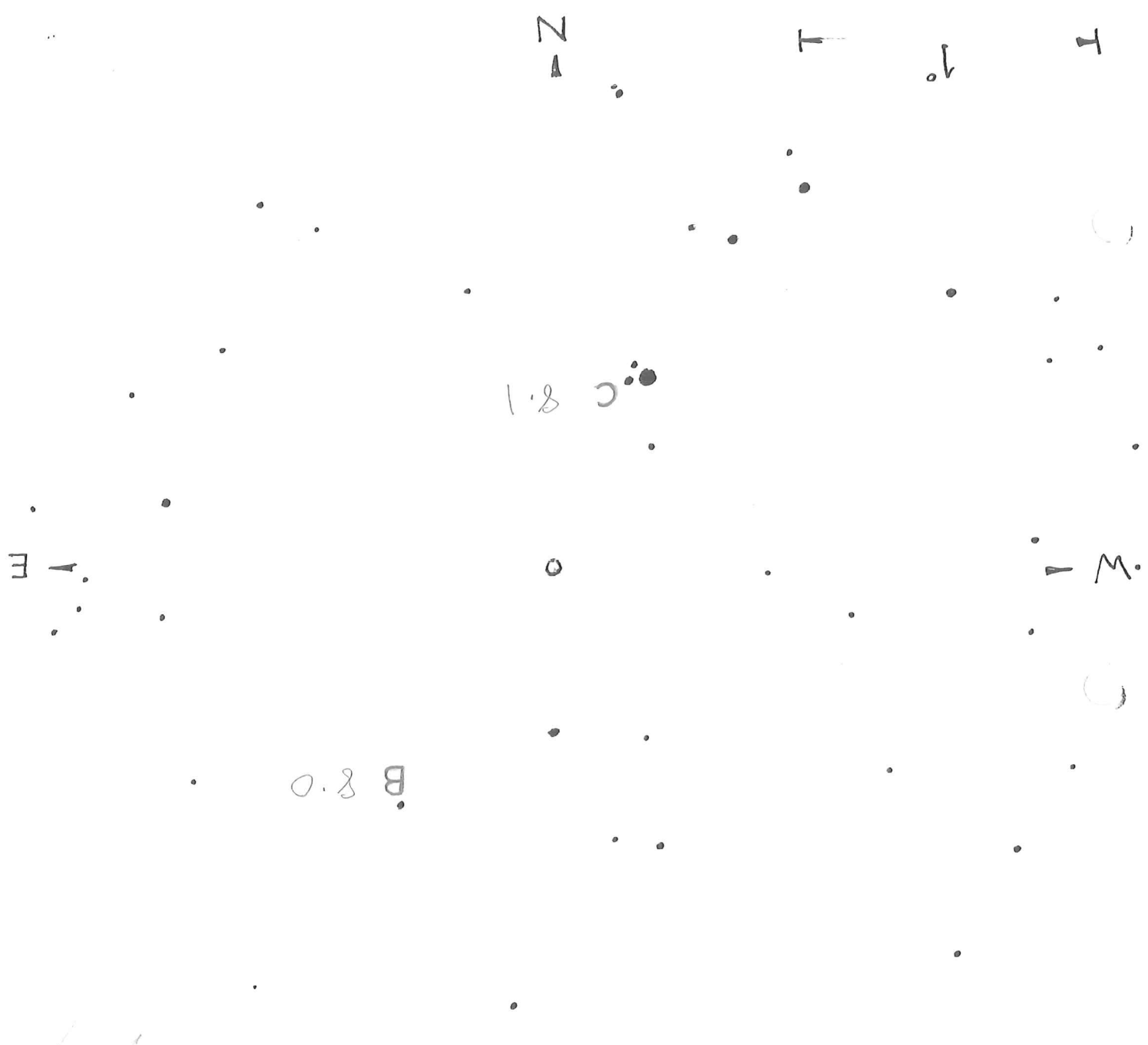
TAKE CARE IN ALIGNING.



WHEELS

B + C added 1987 Feb 24

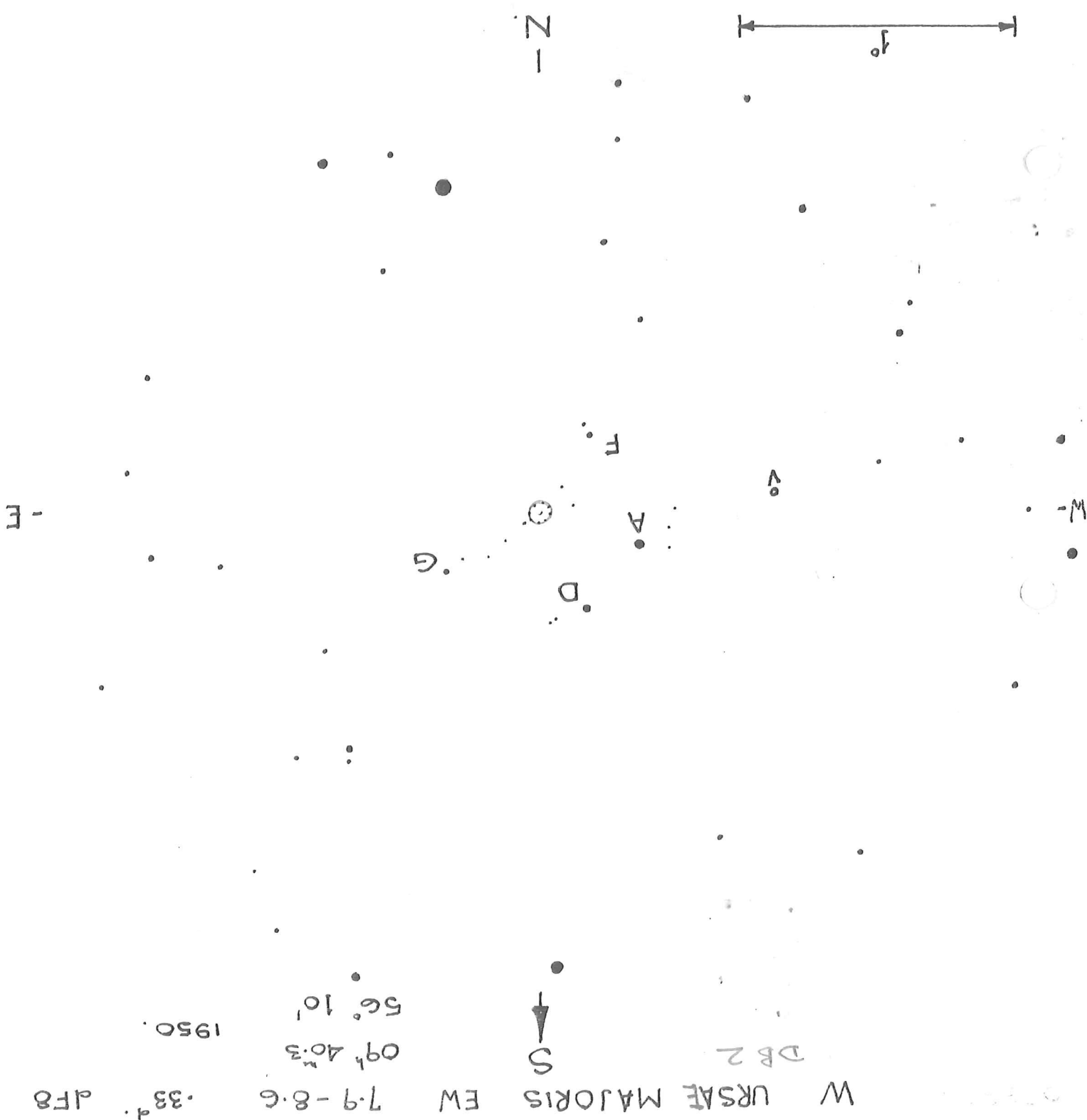
SAO	RA	Dec	m_v	Sp.
043476	$10^h 45^m$	$45^{\circ} 04'$	8.0	KO
043449	$10^h 41^m$	$46^{\circ} 28'$	8.1	F8



G	027376	09° 43'	55° 59'	9.1	KO
F	027353	09° 39'	56° 25'	9.0	K2
D	027354	09° 29'	55° 54'	8.8	KO
A	027340	09° 38'	56° 00'	6.7	KO

540

②
③



AFB .33

7.9-8.6

09° 40.3

56° 10'

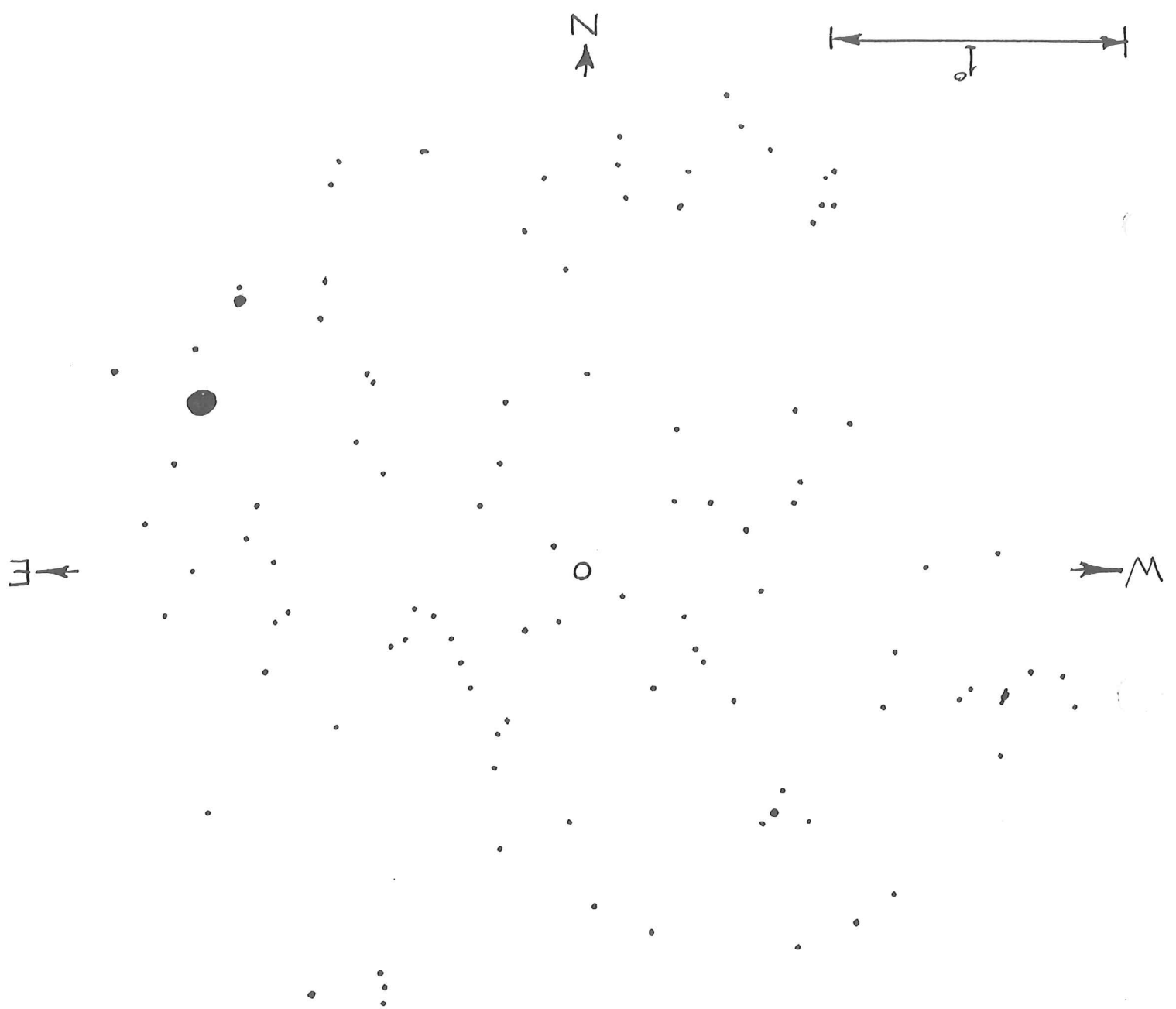
1950

S

DB 2

W URSAE MAJORIS EW

SAO RA Dec. mv Sp.



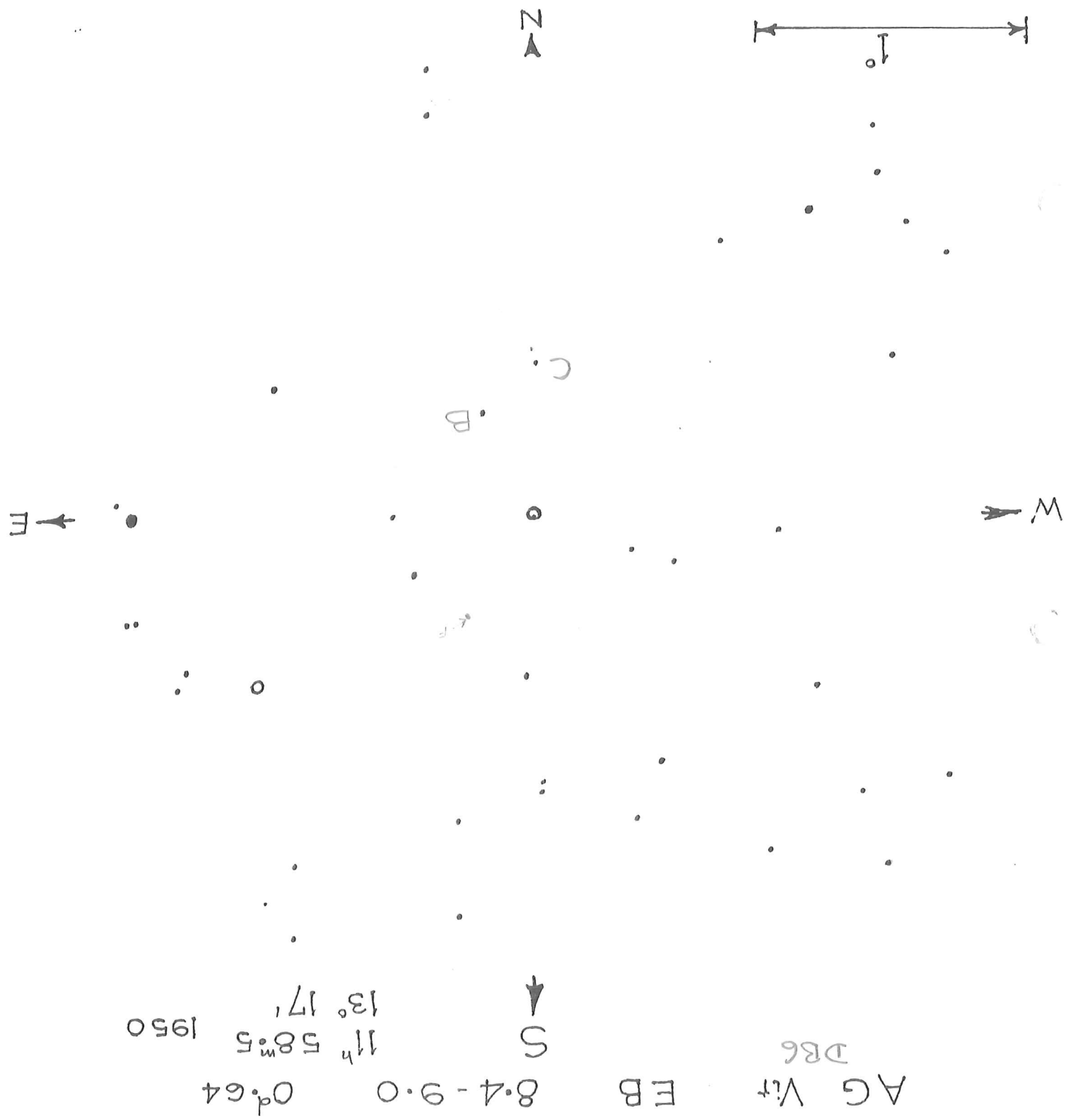
1950
 1.7^p
 20^m:8
 16^h
 86° 20'
 8.5 - 9.6
 8.7 - 9.8
 W UMi
 S

JWF

am surprised that one of these methods F is not on SAO chart
F is ~ 9.0 mag.

B+C chosen 1987 Mar 22 - Two stars added to assist identification -

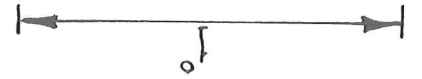
SAO	RA	Dec.	mv	Sp.
B 099915	11 ^h 59 ^m	13° 41'	8.8	G5
C 099907	11 ^h 58 ^m	13° 55'	8.9	



AG Vit DB6
 EB 8.4-9.0
 S 11^h 58^m.5 13° 17' 0^d.64 1950

11/F 1986 hrs

SAO RA Dec. mv Sp.



N ↑

← E

→ W

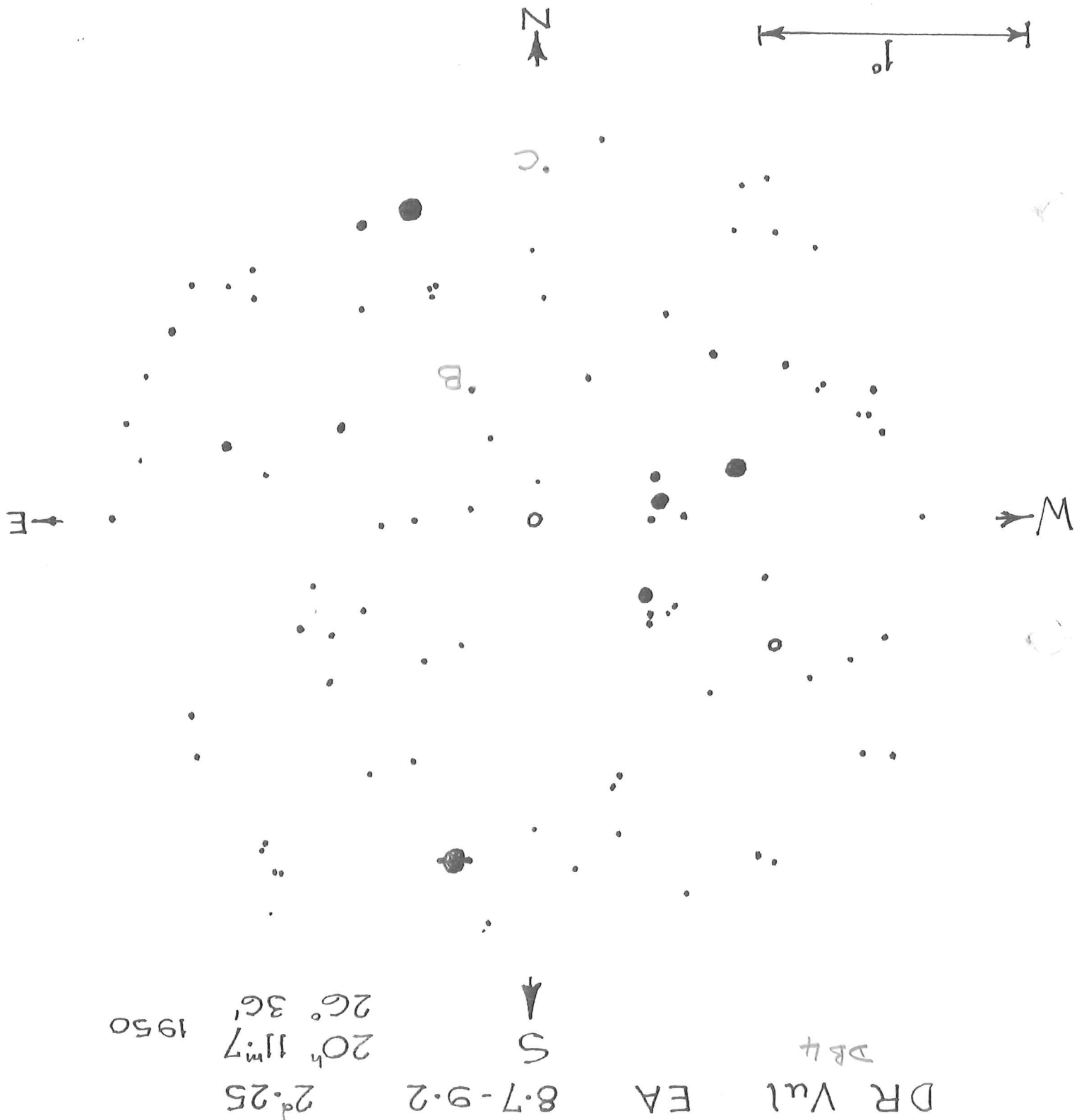
↓ S

AH Vit

9.2 - 9.7
12h 11m 8
12° 06'
0.41
1950

B&C added 1988 Sept. 8. JWG.

SAO	RA	Dec.	mv	Sp.
B 088399	20 ^h 13 ^m	27° 06'	8.3	A0
C 088378	20 ^h 11 ^m	27° 49'	8.3	A2



DR Vu1 EA 8.7-9.2 2^d 25
 DB4 20^h 11^m 7 26° 36' 1950
 S

DI
 9.20

C	27027	180811	1917	2226	7.91	B9	check
B	87102	181751	1921	2212	6.56	B8	Comp

SAO

HP

RA

Dec.

mv

Sp.

N

→

↓

→

← E

← W

B = Comp

~~check~~

D89

↓ S

19h 15:5
22° 26'
1950

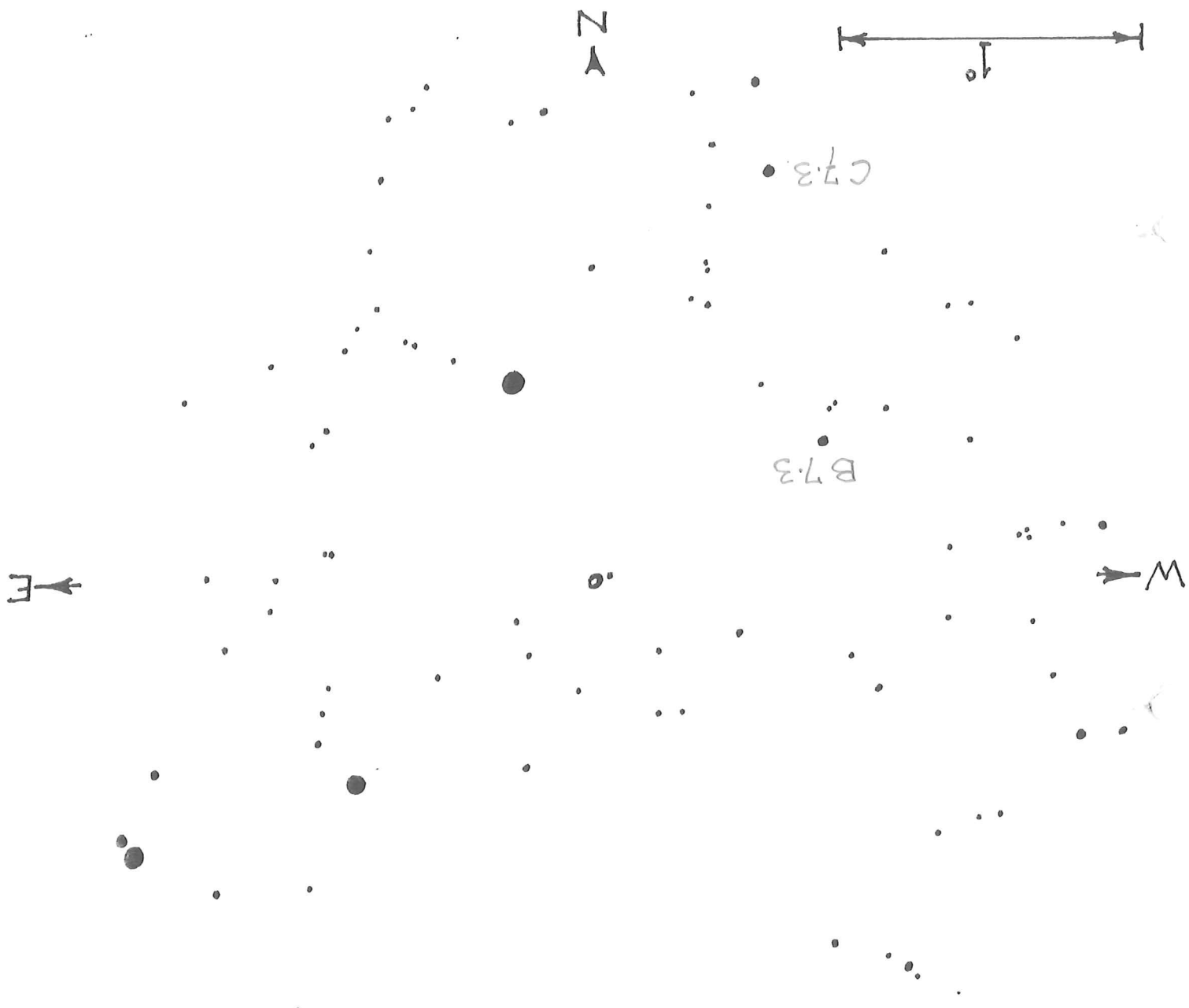
RS Val EA EA Val EA

6.9-7.6

4.48^d

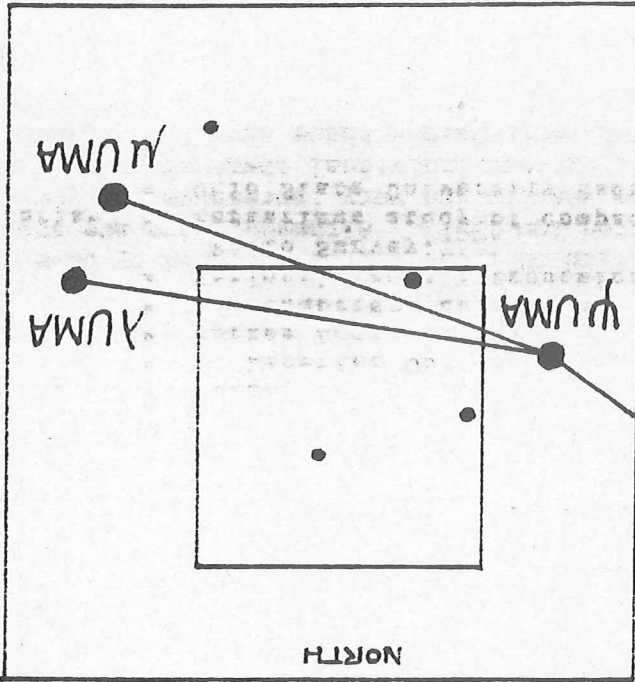
Jue

SAO	RA	Dec.	mv	Sp.
B 087053	19 ^h 16 ^m	25° 58'	7.3	B5
C 087062	19 ^h 17 ^m	26° 20'	7.3	A2

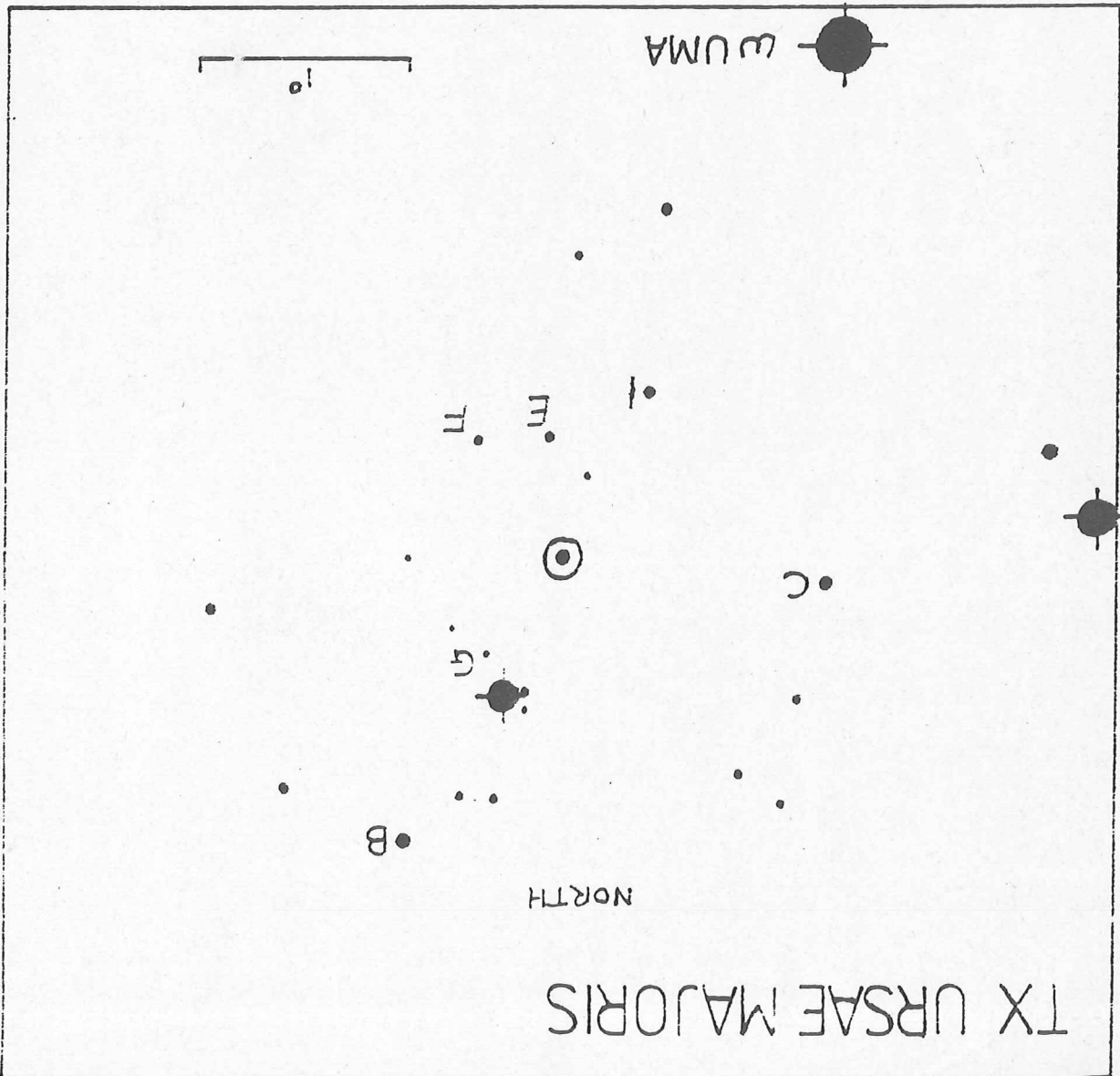


Z Vul	EA	7.4-9.2	S	2 ^d .46	19 ^h 19 ^m .6	25° 29'	1950

DB8



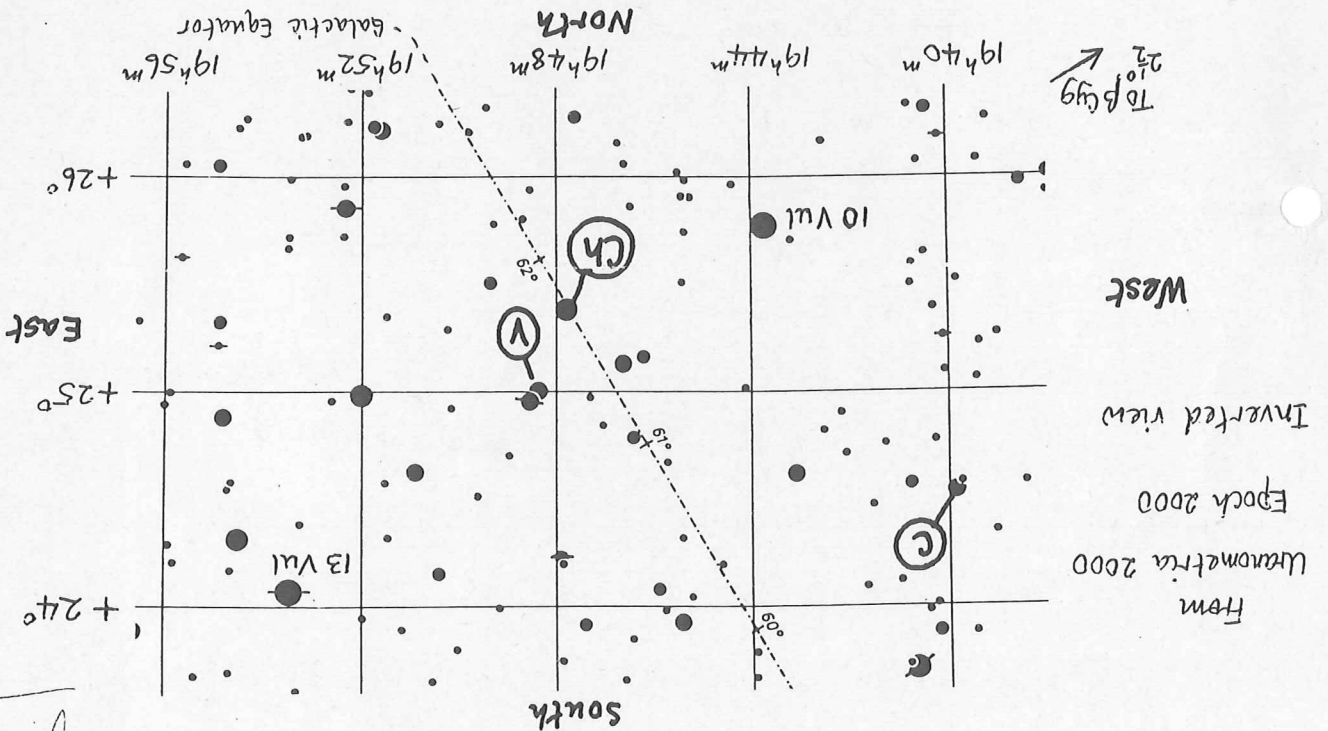
TX UMa: EA 7.06(7.13)8.80V
 D=9.4h
 Min=2445105.359+3.063305XE
 (SAC 63)
 (1950) 10h 42m 24s +45° 49' 8
 (2000) 10h 45m 20s +45° 34' 0
 Sequence:
 B = 7.3 E = 8.1
 C = 7.4 F = 8.6
 I = 7.7 G = 8.9
 T. Breistaff 1993 Jan 10



Search for New 5 Aurigae Binaries

HD 187299 VULPECULA Best writer

Roger



HD 187299 is a promising candidate for a 5 Aur system. It consists of a very large and luminous 6-type supergiant with a mid-B companion in a 1900-day orbit. The mass function is more than 1.5 solar masses - more than that of 5 Aur itself. This system is probably more than a kiloparsec away and, being right in the Galactic plane, is doomed and heavily reddened by interstellar obscuration.

We discovered the nature of this system and published its orbit (Observatory 97, 169, 1977) and a preliminary spectroscopic investigation (Monthly Notices of the R.A.S. 187, 91, 1979) long ago, but no watch has been made for eclipses. The radial velocities show that conjunction is due on 1997 June 4, with an uncertainty of the order of a week. An eclipse, which would be shallow in V but several tenths of a magnitude deep in U, could last many days. Unfortunately the system is a moving object at the critical time; it will be more favourably placed at ensuing conjunctions, but they do not occur until 1997 August and 2002 November.

The proposed comparison star is well matched to HD 187299 in both V and B (and maybe U, but that is unknown); however, the proposed check star could be used as the comparison if its proximity is a convenience.

Star	HR	HD	α 1900 S	α 2000 S	V	B-V	U-B	Sp.
V	-	187299	$19^{\text{h}}44^{\text{m}}10^{\text{s}} + 24^{\circ}45'35''$	$19^{\text{h}}48^{\text{m}}21^{\text{s}} + 25^{\circ}00'35''$	7.12	1.60	1.37	G+B
C	-	185781	$19^{\text{h}}35^{\text{m}}39^{\text{s}} + 24^{\circ}18'27''$	$19^{\text{h}}39^{\text{m}}51^{\text{s}} + 24^{\circ}32'13''$	7.04	1.45	-	K3III
Ch	7540	187193	$19^{\text{h}}43^{\text{m}}37^{\text{s}} + 25^{\circ}08'13''$	$19^{\text{h}}47^{\text{m}}48^{\text{s}} + 25^{\circ}23'02''$	5.95	0.99	-	K0III