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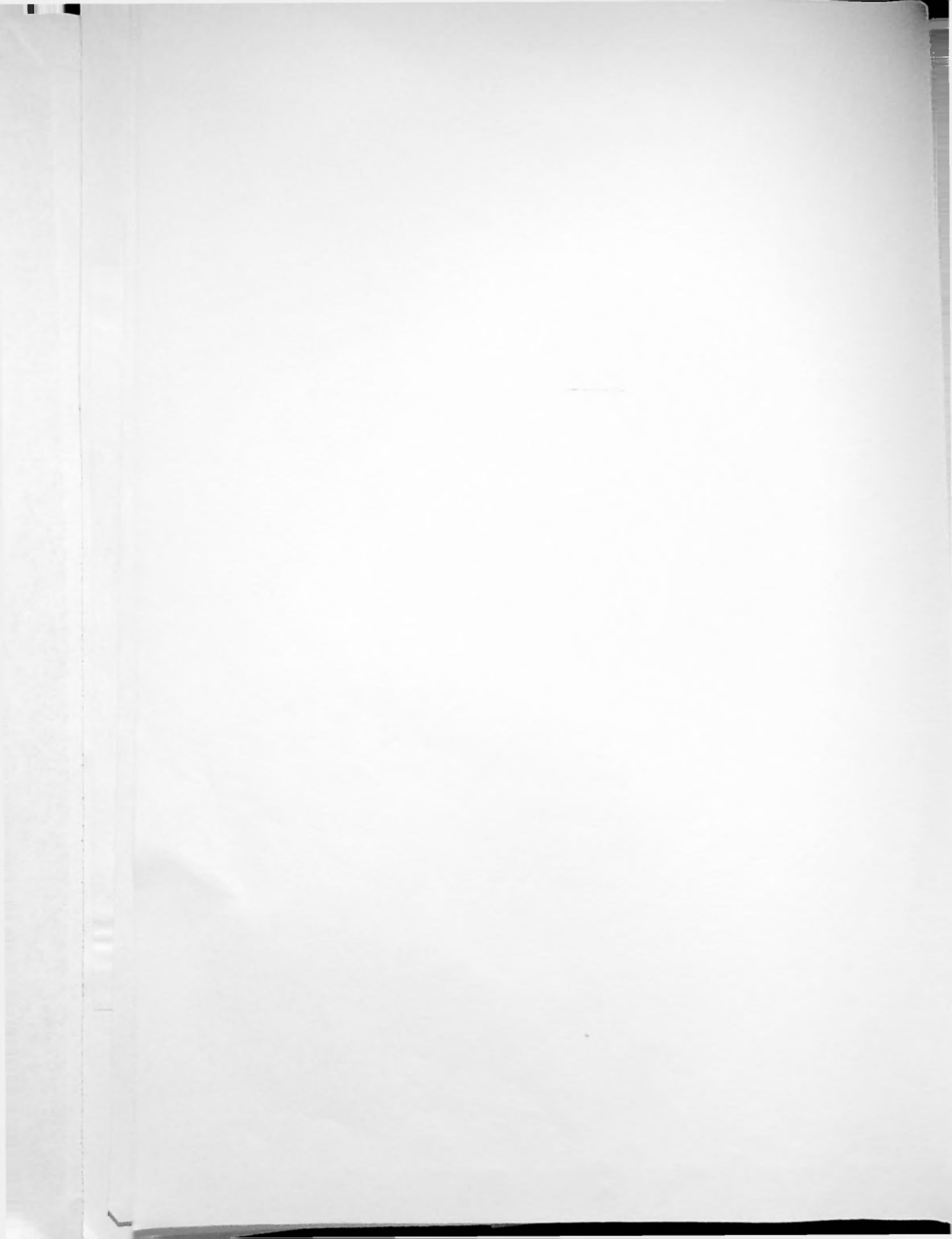
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Ph.D. 10117

VOLUME II

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TABLES



Tables 3.I to 3.III are in the text.

Tables 3.1 to 3.11 are in the text.

<u>Type</u>	<u>Number of graves in which it occurred</u>
1. Decorated Bell Beaker	98
2. Decorated Handled Bell Beaker	7
3. Undecorated Bell Beaker	33
4. Undecorated Handled Bell Beaker	34
5. Undecorated Jug	267
6. Decorated Jug	15
7. Undecorated Bowl	203
8. Decorated Bowl	17
9. Polypod Bowl	20
10. 'Topf'	45
11. Handled 'Topf'	27
12. Other vessel (not belonging to any of the defined types)	16
13. Arrowhead	33
14. Stone Axe	9
15. Flint Flake	27
16. Bone Pendant	10
17. Copper Awl	12
18. Copper Dagger	25
19. Wrist-guard	48
20. V-perforated Button	22
21. Bone Awl	6
22. Animal Bones	28
23. Ear-rings	5
24. Copper Sheet	6
25. Amber Button	8
26. Amphora	13
27. Flint Blade	33
28. Sherds	11
29. Flint Scraper	11
30. Boar's Tusk	7
31. Urn	9
32. Whetstone	4

Table 3.1V A list of the object types used in the analysis of the grave associations, together with their frequencies.

(A comment on the word 'Topf': there seems to be no really adequate English translation of this German term, although it does in fact describe a quite specific pottery form - see, for example figure 3.1; the German word has therefore been retained.)

COEFFICIENTS MATRIX

S 2	0.154	0.000	0.207	0.243	0.353	0.215	0.064	0.055	0.037	0.009	0.050	0.057	0.213	0.337	0.189	0.000
S 3	0.203	0.000	0.290	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 4	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 5	0.356	0.220	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 6	0.077	0.105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 7	0.273	0.222	0.300	0.215	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 8	0.242	0.101	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 10	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 11	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 12	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 13	0.304	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 14	0.425	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 15	0.308	0.000	0.102	0.031	0.227	0.104	0.232	0.096	0.044	0.089	0.075	0.050	0.213	0.337	0.189	0.000
S 16	0.221	0.000	0.000	0.065	0.364	0.084	0.315	0.159	0.075	0.000	0.069	0.000	0.196	0.000	0.000	0.000
S 17	0.320	0.000	0.057	0.112	0.218	0.000	0.177	0.000	0.000	0.212	0.121	0.072	0.057	0.000	0.000	0.000
S 18	0.362	0.000	0.000	0.138	0.263	0.107	0.158	0.149	0.000	0.094	0.039	0.052	0.247	0.152	0.000	0.000
S 19	0.116	0.140	0.185	0.075	0.332	0.008	0.271	0.120	0.071	0.044	0.029	0.084	0.333	0.264	0.000	0.000
S 20	0.232	0.242	0.157	0.457	0.419	0.113	0.202	0.053	0.164	0.339	0.124	0.000	0.030	0.000	0.000	0.000
S 21	0.089	0.000	0.258	0.000	0.000	0.000	0.172	0.000	0.000	0.000	0.204	0.115	0.107	0.000	0.000	0.000
S 22	0.069	0.000	0.125	0.104	0.094	0.107	0.407	0.095	0.043	0.145	0.073	0.000	0.133	0.000	0.000	0.000
S 23	0.110	0.000	0.120	0.152	0.085	0.032	0.102	0.000	0.000	0.000	0.000	0.132	0.116	0.000	0.000	0.000
S 24	0.000	0.000	0.142	0.240	0.111	0.000	0.000	0.000	0.000	0.000	0.102	0.000	0.000	0.000	0.000	0.000
S 25	0.000	0.000	0.125	0.108	0.168	0.211	0.000	0.203	0.000	0.295	0.082	0.000	0.078	0.000	0.000	0.000
S 26	0.000	0.000	0.114	0.000	0.238	0.096	0.240	0.161	0.000	0.146	0.000	0.000	0.100	0.000	0.000	0.000
S 27	0.000	0.000	0.110	0.104	0.203	0.000	0.236	0.000	0.000	0.000	0.057	0.070	0.334	0.071	0.000	0.000
S 28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 29	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 31	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 32	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 3.V Matrix of the similarities between the thirty-two object types used in the analysis.

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Cycle Number	Edge removed	Number of clusters	Within-group similarities	Between-group similarities	Total similarity
1	1 - 5	2	32.725	19.212	51.937
2	1 - 5 1 - 32	3	26.285	25.653	51.937
3	1 - 5 1 - 32 5 - 7	4	18.256	33.681	51.937
4	1 - 5 5 - 7 13 - 32 19 - 30	5	16.098	35.839	51.937

Table 3.VI Summary of the groups produced by DNDRIT on the thirty-two Bell Beaker artifact types

Cluster I

- | | |
|--------------------------|-------------------|
| 1. Decorated Bell Beaker | 23. Ear-ring |
| 13. Arrowhead | 25. Amber Button |
| 14. Stone Axe | 28. Sherds |
| 15. Flint Flake | 29. Flint Scraper |
| 17. Copper Awl | 30. Boar's Tusk |
| 18. Copper Dagger | 32. Whetstone |
| 19. Wrist-guard | |

Cluster II

- | | |
|------------------------------------|-------------------------|
| 2. Decorated Handled Bell Beaker | 12. Pot (type unknown) |
| 3. Undecorated Bell Beaker | 16. Bone Pendant |
| 4. Undecorated Handled Bell Beaker | 20. V-perforated Button |
| 5. Undecorated Jug | 21. Bone Awl |
| 6. Decorated Jug | 22. Animal Bones |
| 7. Undecorated Bowl | 24. Copper Sheet |
| 8. Decorated Bowl | 26. Amphora |
| 9. Polypod Bowl | 27. Flint Blade |
| 10. 'Topf' | 31. Urn |
| 11. Hnadled 'Topf' | |

Table 3.VII A list of the members of the two clusters produced after the first cycle of the program DNDRIT

MODE ANALYSIS

DISTANCE THRESHOLD = AVERAGE OF 2K LARGEST SIMILARITIES

PROGRAM SELECTS STANDARD K = 2
PROGRAM SELECTS STANDARD MINFUS = 2

PROGRAM PARAMETERS ARE -

DENSITY LEVEL K = 2.0
MINIMUM NUMBER OF CLUSTERS CONTROL MINC = 1
MINIMUM ENCLOSURE RATIO = 0.00
MINIMUM CLUSTER SIZE FOR OUTPUT MINFUS = 2

NEW INTRODUCE DENSE POINT	5 AT COEFFICIENT	0.496 AND FORM NEW CLUSTER NUCLEUS	5
NEW INTRODUCE DENSE POINT	7 AT COEFFICIENT	0.486 JOINS CLUSTER	5 AND NEW CLUSTER CODE IS 5
NEW INTRODUCE DENSE POINT	1 AT COEFFICIENT	0.457 AND FORM NEW CLUSTER NUCLEUS	1
NEW INTRODUCE DENSE POINT	13 AT COEFFICIENT	0.420 AND FORM NEW CLUSTER NUCLEUS	13
NEW INTRODUCE DENSE POINT	30 AT COEFFICIENT	0.400 JOINS CLUSTER	13 AND NEW CLUSTER CODE IS 13
NEW INTRODUCE DENSE POINT	32 AT COEFFICIENT	0.398 JOINS CLUSTER	1 FROM FUSION OF CLUSTERS
NEW INTRODUCE DENSE POINT	19 AT COEFFICIENT	0.385 JOINS CLUSTER	1 AND NEW CLUSTER CODE IS 1
NEW INTRODUCE DENSE POINT	10 AT COEFFICIENT	0.381 JOINS CLUSTER	5 AND NEW CLUSTER CODE IS 5

CLASSIFICATIONS PRIOR TO FUSION

MODE NUCLEI GROUP	1	KL=2	8	DENSE	2	CLUSTERS	ENC RATIO	0.63	COEF.	0.381
1	0	0	5	0	5	0	0	1	1	0
5	5	1	5	0	5	0	1	1	1	5
MODE COMPLETE GROUP	1	KL=2	8	DENSE	2	CLUSTERS	ENC RATIO	0.63	COEF.	0.381
1	5	5	5	5	5	5	5	1	1	5
5	5	1	5	5	5	1	1	5	1	5
NEW FUSE CLUSTERS	1	5	AT COEFFICIENT	0.356	NEW CLUSTER CODE IS	1				
NEW INTRODUCE DENSE POINT	15	AT COEFFICIENT	0.355	JOINS CLUSTER	1	AND NEW CLUSTER CODE IS	1			
NEW INTRODUCE DENSE POINT	29	AT COEFFICIENT	0.333	JOINS CLUSTER	1	AND NEW CLUSTER CODE IS	1			
NEW INTRODUCE DENSE POINT	18	AT COEFFICIENT	0.328	JOINS CLUSTER	1	AND NEW CLUSTER CODE IS	1			
NEW INTRODUCE DENSE POINT	27	AT COEFFICIENT	0.327	JOINS CLUSTER	1	AND NEW CLUSTER CODE IS	1			
NEW INTRODUCE DENSE POINT	14	AT COEFFICIENT	0.326	JOINS CLUSTER	1	AND NEW CLUSTER CODE IS	1			
NEW INTRODUCE DENSE POINT	20	AT COEFFICIENT	0.318	JOINS CLUSTER	1	AND NEW CLUSTER CODE IS	1			
NEW INTRODUCE DENSE POINT	25	AT COEFFICIENT	0.302	JOINS CLUSTER	1	AND NEW CLUSTER CODE IS	1			

NUMBER OF CLUSTERS = 1
ENCLOSURE RATIO = 0.82
END CONDITIONS SATISFIED
JOB ENDS

Table 3.VIII Print-out of MODE analysis of grave goods,
all graves included.

The first part of the report
 describes the general situation
 of the country and the
 progress of the work
 during the year. It also
 mentions the various
 projects which have been
 carried out and the
 results obtained. The
 second part of the report
 contains a detailed account
 of the work done in the
 various departments and
 the progress of the
 different projects. It
 also mentions the names
 of the persons who have
 been engaged in the work
 and the amount of money
 which has been expended.
 The third part of the
 report contains a summary
 of the work done and
 the results obtained. It
 also mentions the names
 of the persons who have
 been engaged in the work
 and the amount of money
 which has been expended.

The fourth part of the
 report contains a summary
 of the work done and
 the results obtained. It
 also mentions the names
 of the persons who have
 been engaged in the work
 and the amount of money
 which has been expended.

Cluster I

1. Decorated Bell Beaker
13. Arrowhead
14. Stone Axe
15. Flint Flake
18. Copper Dagger
19. Wrist-guard
23. Ear-ring
29. Flint Scraper
30. Boar's Tusk
32. Whetstone

Cluster II

5. Undecorated Jug
7. Undecorated Bowl
9. Polypod Bowl
10. 'Topf'
20. V-perforated Button
21. Bone Awl
22. Animal Bones
24. Copper Sheet
27. Flint Blade
31. Urn

Table 3.IX Members of the two 'nuclei' clusters produced by
program MODE from the 32 object types used in the analysis

	Bohemia	Moravia
1-grave sites without		
Cluster 1 goods	22	9
1-grave sites with		
Cluster 1 and 2 goods	11	12
Total number of		
1-grave sites	35	22
Sites without Cluster 1		
when 1-grave sites excluded	12	8

Table 3.X Table of 1-grave sites in Bohemia and Moravia

1890

1891

1892

1893

1894

1895

1896

1897

1898

1899

1900

MODE ANALYSIS

DISTANCE THRESHOLD = AVERAGE OF 2K LARGEST SIMILARITIES

PROGRAM SELECTS STANDARD K = 2
PROGRAM SELECTS STANDARD MINPUS = 2

PROGRAM PARAMETERS ARE -
DENSITY LEVEL K = 2.0
MINIMUM NUMBER OF CLUSTERS CONTROL MINC = 1
MINIMUM ENCLOSURE RATIO = 0.80
MINIMUM CLUSTER SIZE FOR OUTPUT MINPUS = 2

NOW INTRODUCE DENSE POINT	5 AT COEFFICIENT	0 567 AND FORM NEW CLUSTER NUCLEUS	5		
NOW INTRODUCE DENSE POINT	7 AT COEFFICIENT	0 520 JOINS CLUSTER 5 AND NEW CLUSTER CODE IS	5		
NOW INTRODUCE DENSE POINT	1 AT COEFFICIENT	0 500 AND FORM NEW CLUSTER NUCLEUS	1		
NOW INTRODUCE DENSE POINT	13 AT COEFFICIENT	0 493 AND FORM NEW CLUSTER NUCLEUS	13		
NOW INTRODUCE DENSE POINT	30 AT COEFFICIENT	0 456 JOINS CLUSTER 13 AND NEW CLUSTER CODE IS	13		
NOW INTRODUCE DENSE POINT	10 AT COEFFICIENT	0 448 JOINS CLUSTER 5 AND NEW CLUSTER CODE IS	5		
NOW INTRODUCE DENSE POINT	19 AT COEFFICIENT	0 439 AND FORM NEW CLUSTER NUCLEUS	19		
NOW INTRODUCE DENSE POINT	14 AT COEFFICIENT	0 425 FORMS CLUSTER 1 FROM FUSION OF CLUSTERS	1 19		
NOW INTRODUCE DENSE POINT	29 AT COEFFICIENT	0 422 FORMS CLUSTER 1 FROM FUSION OF CLUSTERS	1 13		
NOW INTRODUCE DENSE POINT	32 AT COEFFICIENT	0 420 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		

CLASSIFICATIONS PRIOR TO FUSION

MODE NUCLEI GROUP	1	KL= 2	10 DENSE	2	CLUSTERS ENC RATIO	0.75	COEF	0.420			
1	5	0	5	5	5	0	1	1	1	1	5
5	5	1	0	5	0	1	1	5			
MODE COMPLETE GROUP	1	KL= 2	10 DENSE	2	CLUSTERS ENC RATIO	0.75	COEF	0.420			
1	5	5	5	5	5	1	1	1	1	1	5
5	5	1	1	5	5	1	1	1			
NOW FUSP CLUSTERS	1	5	5	5	5	1	1	1			
NOW INTRODUCE DENSE POINT	20 AT COEFFICIENT	0 409 NEW CLUSTER CODE IS	1								
NOW INTRODUCE DENSE POINT	15 AT COEFFICIENT	0 409 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1								
NUMBER OF CLUSTERS =	1										
ENCLOSURE RATIO =	0.82										
END CONDITIONS SATISFIED											
JOB ENDS											

Table 3.XI Print-out of MODE analysis of grave goods,
Moravian graves only.

MODE ANALYSIS

DISTANCE THRESHOLD = AVERAGE OF 2K LARGEST SIMILARITIES

PROGRAM SELECTS STANDARD K = 2
PROGRAM SELECTS STANDARD MINPDS = 2

PROGRAM PARAMETERS ARE -
DENSITY LEVEL K = 2.0
MINIMUM NUMBER OF CLUSTERS CONTROL MINC = 1
MINIMUM ENCLOSURE RATIO = 0.80
MINIMUM CLUSTER SIZE FOR OUTPUT MINPDS = 2

NOW INTRODUCT DENSE POINT	31 AT COEFFICIENT	0.547 AND FORM NEW CLUSTER NUCLEUS	31		
NOW INTRODUCT DENSE POINT	30 AT COEFFICIENT	0.522 AND FORM NEW CLUSTER NUCLEUS	30		
NOW INTRODUCT DENSE POINT	5 AT COEFFICIENT	0.507 AND FORM NEW CLUSTER NUCLEUS	5		
NOW INTRODUCT DENSE POINT	7 AT COEFFICIENT	0.506 FORMS CLUSTER 5 FROM FUSION OF CLUSTERS	5	30	
NOW FUSE CLUSTERS	5	0.505 NEW CLUSTER CODE IS	5		
NOW INTRODUCT DENSE POINT	1 AT COEFFICIENT	0.485 JOINS CLUSTER 5 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	25 AT COEFFICIENT	0.450 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	19 AT COEFFICIENT	0.448 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	13 AT COEFFICIENT	0.420 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	27 AT COEFFICIENT	0.392 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	14 AT COEFFICIENT	0.372 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	15 AT COEFFICIENT	0.354 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	23 AT COEFFICIENT	0.344 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	24 AT COEFFICIENT	0.341 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	3 AT COEFFICIENT	0.340 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	16 AT COEFFICIENT	0.337 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	18 AT COEFFICIENT	0.333 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	29 AT COEFFICIENT	0.328 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	22 AT COEFFICIENT	0.296 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		
NOW INTRODUCT DENSE POINT	10 AT COEFFICIENT	0.286 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS	1		

NUMBER OF CLUSTERS = 1
ENCLOSURE RATIO = 0.81
END CONDITIONS SATISFIED
JOB ENDS

Table 3.XII Print-out of MODE analysis of grave goods,
Bohemian graves only.

Cluster 1

- | | |
|--------------------------|-------------------|
| 1. Decorated Bell Beaker | 19. Wrist-guard |
| 13. Arrowhead | 23. Ear-ring |
| 14. Stone Axe | 28. Sherds |
| 15. Flint Flake | 29. Flint Scraper |
| 17. Copper Awl | 30. Boar's Tusk |
| 18. Copper Dagger | 32. Whetstone |

Cluster 2

- | | |
|----------------------------------|-------------------------|
| 2. Decorated Handled Bell Beaker | 11. Handled 'Topf' |
| 5. Undecorated Jug | 20. V-perforated Button |
| 6. Decorated Jug | 21. Bone Awl |
| 7. Undecorated Bowl | 22. Animal Bones |
| 9. Polypod Bowl | 26. Amphora |
| 10. 'Topf' | 31. Urn |

Table 3.XIII Members of the two 'nuclei' clusters produced by program MODE from the 32 object types used in the analysis. Moravian graves only.

Cluster 1

1. 100% 100%	1. 100% 100%
2. 100% 100%	2. 100% 100%
3. 100% 100%	3. 100% 100%
4. 100% 100%	4. 100% 100%
5. 100% 100%	5. 100% 100%
6. 100% 100%	6. 100% 100%
7. 100% 100%	7. 100% 100%
8. 100% 100%	8. 100% 100%
9. 100% 100%	9. 100% 100%
10. 100% 100%	10. 100% 100%

Cluster 2

1. 100% 100%	1. 100% 100%
2. 100% 100%	2. 100% 100%
3. 100% 100%	3. 100% 100%
4. 100% 100%	4. 100% 100%
5. 100% 100%	5. 100% 100%
6. 100% 100%	6. 100% 100%
7. 100% 100%	7. 100% 100%
8. 100% 100%	8. 100% 100%
9. 100% 100%	9. 100% 100%
10. 100% 100%	10. 100% 100%

Figure 2.10. Results of the two 'cluster' clusters produced by program 1000 from the 35 object types used in the analysis. (Source: 1000)

	Bohemia	Moravia		Bohemia	Moravia		Bohemia	Moravia
1.	36	62	12.	11	5	23.	4	1
2.	5	2	13.	14	19	24	4	2
3.	19	14	14.	5	4	25.	2	6
4.	31	3	15.	9	18	26.	7	6
5.	115	152	16.	6	4	27.	20	13
6.	4	11	17.	4	8	28.	6	5
7.	92	111	18.	9	16	29.	6	5
8.	4	13	19.	23	25	30.	1	6
9.	13	7	20.	5	17	31.	0	9
10.	10	35	21.	2	4	32.	1	3
11.	12	15	22.	12	16			

Table 3.XIV Numbers of the different grave goods found in Bohemia and Moravia

element	element	element	element	element	element		
1	4	2	11	.07	20	22	.1
3	6	.07	13	.07	2	4	.5
5	8	.07	15	.07	24	26	.1
7	10	.07	17	.07	28	30	.1
9	12	.07	19	.07	32	34	.1
11	14	.07	21	.07	36	38	.1
13	16	.07	23	.07	40	42	.1
15	18	.07	25	.07	44	46	.1
17	20	.07	27	.07	48	50	.1
19	22	.07	29	.07	52	54	.1
21	24	.07	31	.07	56	58	.1
23	26	.07	33	.07	60	62	.1
25	28	.07	35	.07	64	66	.1
27	30	.07	37	.07	68	70	.1
29	32	.07	39	.07	72	74	.1
31	34	.07	41	.07	76	78	.1
33	36	.07	43	.07	80	82	.1
35	38	.07	45	.07	84	86	.1
37	40	.07	47	.07	88	90	.1
39	42	.07	49	.07	92	94	.1
41	44	.07	51	.07	96	98	.1
43	46	.07	53	.07	100	102	.1
45	48	.07	55	.07	104	106	.1
47	50	.07	57	.07	108	110	.1
49	52	.07	59	.07	112	114	.1
51	54	.07	61	.07	116	118	.1
53	56	.07	63	.07	120	122	.1
55	58	.07	65	.07	124	126	.1
57	60	.07	67	.07	128	130	.1
59	62	.07	69	.07	132	134	.1
61	64	.07	71	.07	136	138	.1
63	66	.07	73	.07	140	142	.1
65	68	.07	75	.07	144	146	.1
67	70	.07	77	.07	148	150	.1
69	72	.07	79	.07	152	154	.1
71	74	.07	81	.07	156	158	.1
73	76	.07	83	.07	160	162	.1
75	78	.07	85	.07	164	166	.1
77	80	.07	87	.07	168	170	.1
79	82	.07	89	.07	172	174	.1
81	84	.07	91	.07	176	178	.1
83	86	.07	93	.07	180	182	.1
85	88	.07	95	.07	184	186	.1
87	90	.07	97	.07	188	190	.1
89	92	.07	99	.07	192	194	.1
91	94	.07	101	.07	196	198	.1
93	96	.07	103	.07	200	202	.1
95	98	.07	105	.07	204	206	.1
97	100	.07	107	.07	208	210	.1
99	102	.07	109	.07	212	214	.1
101	104	.07	111	.07	216	218	.1
103	106	.07	113	.07	220	222	.1
105	108	.07	115	.07	224	226	.1
107	110	.07	117	.07	228	230	.1
109	112	.07	119	.07	232	234	.1
111	114	.07	121	.07	236	238	.1
113	116	.07	123	.07	240	242	.1
115	118	.07	125	.07	244	246	.1
117	120	.07	127	.07	248	250	.1
119	122	.07	129	.07	252	254	.1
121	124	.07	131	.07	256	258	.1
123	126	.07	133	.07	260	262	.1
125	128	.07	135	.07	264	266	.1
127	130	.07	137	.07	268	270	.1
129	132	.07	139	.07	272	274	.1
131	134	.07	141	.07	276	278	.1
133	136	.07	143	.07	280	282	.1
135	138	.07	145	.07	284	286	.1
137	140	.07	147	.07	288	290	.1
139	142	.07	149	.07	292	294	.1
141	144	.07	151	.07	296	298	.1
143	146	.07	153	.07	300	302	.1
145	148	.07	155	.07	304	306	.1
147	150	.07	157	.07	308	310	.1
149	152	.07	159	.07	312	314	.1
151	154	.07	161	.07	316	318	.1
153	156	.07	163	.07	320	322	.1
155	158	.07	165	.07	324	326	.1
157	160	.07	167	.07	328	330	.1
159	162	.07	169	.07	332	334	.1
161	164	.07	171	.07	336	338	.1
163	166	.07	173	.07	340	342	.1
165	168	.07	175	.07	344	346	.1
167	170	.07	177	.07	348	350	.1
169	172	.07	179	.07	352	354	.1
171	174	.07	181	.07	356	358	.1
173	176	.07	183	.07	360	362	.1
175	178	.07	185	.07	364	366	.1
177	180	.07	187	.07	368	370	.1
179	182	.07	189	.07	372	374	.1
181	184	.07	191	.07	376	378	.1
183	186	.07	193	.07	380	382	.1
185	188	.07	195	.07	384	386	.1
187	190	.07	197	.07	388	390	.1
189	192	.07	199	.07	392	394	.1
191	194	.07	201	.07	396	398	.1
193	196	.07	203	.07	400	402	.1
195	198	.07	205	.07	404	406	.1
197	200	.07	207	.07	408	410	.1
199	202	.07	209	.07	412	414	.1
201	204	.07	211	.07	416	418	.1
203	206	.07	213	.07	420	422	.1
205	208	.07	215	.07	424	426	.1
207	210	.07	217	.07	428	430	.1
209	212	.07	219	.07	432	434	.1
211	214	.07	221	.07	436	438	.1
213	216	.07	223	.07	440	442	.1
215	218	.07	225	.07	444	446	.1
217	220	.07	227	.07	448	450	.1
219	222	.07	229	.07	452	454	.1
221	224	.07	231	.07	456	458	.1
223	226	.07	233	.07	460	462	.1
225	228	.07	235	.07	464	466	.1
227	230	.07	237	.07	468	470	.1
229	232	.07	239	.07	472	474	.1
231	234	.07	241	.07	476	478	.1
233	236	.07	243	.07	480	482	.1
235	238	.07	245	.07	484	486	.1
237	240	.07	247	.07	488	490	.1
239	242	.07	249	.07	492	494	.1
241	244	.07	251	.07	496	498	.1
243	246	.07	253	.07	500	502	.1
245	248	.07	255	.07	504	506	.1
247	250	.07	257	.07	508	510	.1
249	252	.07	259	.07	512	514	.1
251	254	.07	261	.07	516	518	.1
253	256	.07	263	.07	520	522	.1
255	258	.07	265	.07	524	526	.1
257	260	.07	267	.07	528	530	.1
259	262	.07	269	.07	532	534	.1
261	264	.07	271	.07	536	538	.1
263	266	.07	273	.07	540	542	.1
265	268	.07	275	.07	544	546	.1
267	270	.07	277	.07	548	550	.1
269	272	.07	279	.07	552	554	.1
271	274	.07	281	.07	556	558	.1
273	276	.07	283	.07	560	562	.1
275	278	.07	285	.07	564	566	.1
277	280	.07	287	.07	568	570	.1
279	282	.07	289	.07	572	574	.1
281	284	.07	291	.07	576	578	.1
283	286	.07	293	.07	580	582	.1
285	288	.07	295	.07	584	586	.1
287	290	.07	297	.07	588	590	.1
289	292	.07	299	.07	592	594	.1
291	294	.07	301	.07	596	598	.1
293	296	.07	303	.07	600	602	.1
295	298	.07	305	.07	604	606	.1
297	300	.07	307	.07	608	610	.1
299	302	.07	309	.07	612	614	.1
301	304	.07	311	.07	616	618	.1
303	306	.07	313	.07	620	622	.1
305	308	.07	315	.07	624	626	.1
307	310	.07	317	.07	628	630	.1
309	312	.07	319	.07	632	634	.1
311	314	.07	321	.07	636	638	.1
313	316	.07	323	.07	640	642	.1
315	318	.07	325	.07	644	646	.1
317	320	.07	327	.07	648	650	.1
319	322	.07	329	.07	652	654	.1
321	324	.07	331	.07	656	658	.1
323	326	.07	333	.07	660	662	.1
325	328	.07	335	.07	664	666	.1
327	330	.07	337	.07	668	670	.1
329	332	.07	339	.07	672	674	.1
331	334	.07	341	.07	676	678	.1
333	336	.07	343	.07	680	682	.1
335	338	.07	345	.07	684	686	.1
337	340	.07	347	.07	688	690	.1
339	342	.07	349	.07	692	694	.1
341	344	.07	351	.07	696	698	.1
343	346	.07	353	.07	700	702	.1
345	348	.07	355	.07	704	706	.1
347	350	.07	357	.07	708	710	.1
349	352	.07	359	.07	712	714	.1
351	354	.07	361	.07	716	718	.1
353	356	.07	363	.07	720	722	.1
355	358	.07	365	.07	724	726	.1
357	360	.07	367	.07	728	730	.1
359	362	.07	369	.07	732	734	.1
361	364	.07	371	.07	736	738	.1
363	366	.07	373	.07	740	742	.1
365	368	.07	375	.07	744	746	.1
367	370	.07	377	.07	748	750	.1
369	372	.07	379	.07	752	754	.1
371	374	.07	381	.07	756	758	.1
373	376	.07	383	.07	760	762	.1
375	378	.07	385	.07	764	766	.1
377	380	.07	387	.07	768	770	.1
379	382	.07	389				

Table 3.XV Print-out of MODE analysis of grave goods, with
the graves randomly divided into two halves, Group 1.

```

MODE ANALYSIS

DISTANCE THRESHOLD = AVERAGE OF 2X LARGEST SIMILARITIES

PROGRAM SELECTS STANDARD K = 2
PROGRAM SELECTS STANDARD MINPUS = 2

PROGRAM PARAMETERS ARE -
DENSITY LEVEL K = 2.0
MINIMUM NUMBER OF CLUSTERS CONTROL MINC = 1
MINIMUM ENCLOSURE RATIO = 0.80
MINIMUM CLUSTER SIZE FOR OUTPUT MINPUS = 2

NOW INTRODUCE DENSE POINT 5 AT COEFFICIENT 0.556 AND FORM NEW CLUSTER NUCLEUS 5
NOW INTRODUCE DENSE POINT 7 AT COEFFICIENT 0.553 JOINS CLUSTER 5 AND NEW CLUSTER CODE IS 5
NOW INTRODUCE DENSE POINT 32 AT COEFFICIENT 0.549 AND FORM NEW CLUSTER NUCLEUS 32
NOW FUSE CLUSTERS 5 32 AT COEFFICIENT 0.504. NEW CLUSTER CODE IS 5
NOW INTRODUCE DENSE POINT 13 AT COEFFICIENT 0.471 JOINS CLUSTER 5 AND NEW CLUSTER CODE IS 5
NOW INTRODUCE DENSE POINT 1 AT COEFFICIENT 0.468 JOINS CLUSTER 5 AND NEW CLUSTER CODE IS 1
NOW INTRODUCE DENSE POINT 27 AT COEFFICIENT 0.451 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS 1
NOW INTRODUCE DENSE POINT 24 AT COEFFICIENT 0.449 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS 1
NOW INTRODUCE DENSE POINT 25 AT COEFFICIENT 0.419 AND FORM NEW CLUSTER NUCLEUS 25
NOW INTRODUCE DENSE POINT 16 AT COEFFICIENT 0.413 FORMS CLUSTER 1 FROM UNION OF CLUSTERS 1 25
NOW INTRODUCE DENSE POINT 30 AT COEFFICIENT 0.397 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS 1
NOW INTRODUCE DENSE POINT 15 AT COEFFICIENT 0.396 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS 1
NOW INTRODUCE DENSE POINT 21 AT COEFFICIENT 0.387 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS 1
NOW INTRODUCE DENSE POINT 19 AT COEFFICIENT 0.377 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS 1
NOW INTRODUCE DENSE POINT 18 AT COEFFICIENT 0.374 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS 1
NOW INTRODUCE DENSE POINT 3 AT COEFFICIENT 0.357 JOINS CLUSTER 1 AND NEW CLUSTER CODE IS 1

NUMBER OF CLUSTERS = 1
ENCLOSURE RATIO = 0.92
END CONDITIONS SATISFIED
JOB ENDS

```

1911

1912

1913

1914

1915

1916

1917

1918

1919

1920

1921

1922

1923

1924

1925

1926

1927

1928

1929

1930

1931

1932

1933

1934

1935

1936

1937

1938

1939

1940

1941

1942

1943

1944

1945

1946

1947

1948

1949

STILLBETTERMENTS - SAGRETT K2 DO 2966AV - 07085381C 3CN 1510

PROGRAM SUBJECTS STANDARD K = 2
PROGRAM SELECTS STANDARD MINUS = 2

```
PROGRAM PARAMETERS ARE -
DENSITY LEVEL K = 2.0
MAXIMUM NUMBER OF CLUSTERS CONTROL MNC = 1
MINIMUM ENCLOSURE RATIO = 0.80
MAXIMUM CLUSTER SIZE FOR OUTPUT MINTMS = 2
```

NEW	INTRODUCED	DENSE	POINT	5 AT	Coefficient	0.509	AND	FORM	NEW	CLUSTER	NUCLEUS	5
NEW	INTRODUCED	DENSE	POINT	7 AT	Coefficient	0.493	JOINS	CLUSTER	5	AND	NEW	CLUSTER
NEW	INTRODUCED	DENSE	POINT	1 AT	Coefficient	0.472	AND	FORM	NEW	CLUSTER	NUCLEUS	1
NEW	INTRODUCED	DENSE	POINT	32 AT	Coefficient	0.424	JOINS	CLUSTER	1	AND	NEW	CLUSTER
NEW	INTRODUCED	DENSE	POINT	19 AT	Coefficient	0.422	AND	FORM	NEW	CLUSTER	NUCLEUS	14
NEW	INTRODUCED	DENSE	POINT	18 AT	Coefficient	0.397	FORMS	CLUSTER	1	FROM	FUSION	OF
NEW	INTRODUCED	DENSE	POINT	13 AT	Coefficient	0.387	JOINS	CLUSTER	1	AND	NEW	CLUSTER
NEW	INTRODUCED	DENSE	POINT	30 AT	Coefficient	0.346	JOINS	CLUSTER	5	AND	NEW	CLUSTER
NEW	INTRODUCED	DENSE	POINT	20 AT	Coefficient	0.369	JOINS	CLUSTER	5	AND	NEW	CLUSTER
NEW	INTRODUCED	DENSE	POINT	19		1						

CLASSTIME CORPORATION, 300 EAST 41ST STREET, NEW YORK, NY 10017

```

CLASSIFICATION GROUP 10 PUSION
MODE NUCLEI GROUP 1 KL= 2
1 0 0 0 5 0 5 0 5 5 0 5 1 1 1 5
0 5 1 0 1 5 0 1 5 5 1 5 1 1 1 5
MODE COMPLETE GROUP 1 KL= 2
1 5 5 5 5 5 5 5 5 5 1 5 1 1 1 5
NOW INTRODUCE DENSE POINT 14 AT COEFFICIENT 0.368 FOR 5 CLUSTERS 1 FROM PUSION OF CLUSTERS 1 5
NOW INTRODUCE DENSE POINT 10 AT COEFFICIENT 0.362 JOIN CLUSTER 1 AND NEW CLUSTER CODE IS 1 AND NEW CLUSTER CODE IS 1
NOW INTRODUCE DENSE POINT 29 AT COEFFICIENT 0.248 JOIN CLUSTER 1 AND NEW CLUSTER CODE IS 1 AND NEW CLUSTER CODE IS 1
NOW INTRODUCE DENSE POINT 22 AT COEFFICIENT 0.333 JOIN CLUSTER 1 AND NEW CLUSTER CODE IS 1 AND NEW CLUSTER CODE IS 1
NUMBER OF CLUSTERS = 1
END CONDITIONS SATISFIED
END CLUSTER RATIO = 0.02
END CONDITIONS SATISFIED
GOOD ENDS

```

Table 3.XVI(a) Print-out of MODE analysis of grave goods, with the graves randomly divided into two halves, Group 2.

Cluster 1

- | | |
|--------------------------|-------------------|
| 1. Decorated Bell Beaker | 23. Ear-ring |
| 13. Arrowhead | 25. Amber Button |
| 17. Copper Awl | 29. Flint Scraper |
| 18. Copper Dagger | 32. Whetstone |
| 19. Wrist-guard | |

Cluster 2

- | | |
|---------------------|-------------------------|
| 5. Undecorated Jug | 20. V-perforated Button |
| 7. Undecorated Bowl | 22. Animal Bones |
| 9. Polypod Bowl | 26. Amphora |
| 10. 'Topf' | 27. Flint Blade |
| 11. Handled 'Topf' | 30. Boar's Tusk |
| 14. Stone Axe | 31. Urn |
| 16. Bone Pendant | |

Table 3.XVI(b) Members of the two 'nuclei' clusters produced by program MODE from the 32 object types used in the analysis, with the graves randomly divided into two halves. Group 2.

Figure 1

1.	Unexcited Bell System	10.	Excited Bell System
2.	Unexcited Bell System	11.	Excited Bell System
3.	Unexcited Bell System	12.	Excited Bell System
4.	Unexcited Bell System	13.	Excited Bell System
5.	Unexcited Bell System	14.	Excited Bell System
6.	Unexcited Bell System	15.	Excited Bell System
7.	Unexcited Bell System	16.	Excited Bell System
8.	Unexcited Bell System	17.	Excited Bell System
9.	Unexcited Bell System	18.	Excited Bell System

Figure 2

1.	Unexcited Bell System	10.	Excited Bell System
2.	Unexcited Bell System	11.	Excited Bell System
3.	Unexcited Bell System	12.	Excited Bell System
4.	Unexcited Bell System	13.	Excited Bell System
5.	Unexcited Bell System	14.	Excited Bell System
6.	Unexcited Bell System	15.	Excited Bell System
7.	Unexcited Bell System	16.	Excited Bell System
8.	Unexcited Bell System	17.	Excited Bell System
9.	Unexcited Bell System	18.	Excited Bell System

Table 1. (continued) - Summary of the two models' observed responses in

response time from the 32 object types used in the analysis, with the
 given randomly divided into two halves. (Note 2.)

	Sample 1	Sample 2	Sample 1	Sample 2	Sample 1	Sample 2
1.	46	50	12.	8	23.	4
2.	2	5	13.	15	24.	3
3.	17	16	14.	5	25.	4
4.	13	22	15.	10	26.	7
5.	142	124	16.	5	27.	16
6.	6	8	17.	5	28.	7
7.	113	90	18.	10	29.	7
8.	8	9	19.	22	30.	5
9.	12	8	20.	7	31.	2
10.	22	23	21.	3	32.	3
11.	14	13	22.	11		

Table 3.XVII Numbers of the different grave goods in randomly divided samples 1 and 2.

Write the numbers in words and draw the number line.

Number	Number	Number	Number
14	10	10	10
20	20	20	20
30	30	30	30
40	40	40	40
50	50	50	50
60	60	60	60
70	70	70	70
80	80	80	80
90	90	90	90
100	100	100	100

Cluster 1

- | | |
|--------------------------|---------------------|
| 1. Decorated Bell Beaker | 5. Undecorated Jug |
| 18. Copper Dagger | 7. Undecorated Bowl |
| 19. Wrist-guard | 9. Polypod Bowl |
| 23. Ear-ring | 10. 'Topf' |
| | 24. Copper Sheet |
| | 27. Flint Blade |

Enclosure ratio 0.49 at coefficient 0.353

Table 3.XVIII Members of the two 'nuclei' clusters produced by program MODE from the 27 object types (five rare types removed from the original total). Bohemian graves only.

Decorated Bell Beakers with continuous zones

Moravia

No Begleitkeramik

Begleitkeramik

1. Blažovice Gr. 14: bowl, jug.
2. Šlapanice (1025) Gr. 16: 'Topf', 2 small jugs.
3. Šlapanice (1025) Gr. 13: 'Topf', small jug.
4. Šlapanice (1025) Gr. 9: small jug.
5. Šlapanice (1025) Gr. 25-6: Urn, small jug.
6. Šlapanice (1025) Gr. 21: small jug, bowl.
7. Šlapanice (1025) Gr. 38: Bowl, small jug,
small vessel.
8. Šlapanice (1025) Gr. 28: Undecorated Bell Beaker,
small jug.
9. Svatoňovice Gr. 16: Small jug, bowl.
10. Svatoňovice Gr. 22: Small jug, bowl.
11. Stražnice Gr. 1: Handled 'Topf'.
12. Stražnice Gr. 1: Bowl, 'Topf'.

Table 4.I (a) Associations of decorated Bell Beakers with continuous (i.e. non-metopic) zones. Moravia.

Table 4.I (b)

Decorated Bell Beakers with continuous zonesBohemia

No Begleitkeramik

Begleitkeramik

- | | |
|---|---|
| <p>1. Zbovřesky Gr. 3: 2 Decorated Bell Beakers,
5 arrowheads, flint scraper, flint blade,
2 flint flakes, boars tusk.</p> <p>2. Radotín I Gr. 1: Decorated Bell Beaker, flint
scraper, copper awl.</p> <p>3. Neškaredice: Decorated Bell Beaker.</p> <p>4. Kolín Gr. 1: 2 Decorated Bell Beakers.</p> <p>5. Chaře I Gr. 2: Decorated Bell Beaker.</p> <p>6. Sulejovice I Gr. 3: Decorated Bell Beaker,
2 decorated handled Bell Beakers, wrist-
guard, 3 arrowheads.</p> <p>7. Praha-Bubeneč II Gr. 1: Decorated Bell Beaker,
dagger, 2 ear-rings.</p> | <p>1. Bylany I Gr. 2: 4 Decorated Bell Beakers,
3 flint arrowheads, 1 small jug, 1 vessel,
1 flint blade, 2 wrist-guards,
smoothing stone.</p> <p>2. Bylany I Gr. 5: 2 Decorated Bell Beakers,
1 small jug.</p> <p>3. Kolín VI Gr. 9: Decorated Bell Beaker, 1 jug.</p> <p>4. Chaře I Gr. 1: Decorated Bell Beaker, bowl,
vessel.</p> <p>5. Praha-Dolní Liboš: Decorated Bell Beaker, jug,
undecorated Bell Beaker, flint blade,
flint arrowhead, stone axe, whetstone.</p> <p>6. Řež I Gr. 3: 2 Decorated Bell Beakers, bowl,
2 undecorated Bell Beakers, small jug.</p> <p>7. Rožďalovice I Gr. 1: 2 Decorated Bell Beakers,
2 small jugs, decorated bowl, amber pendant.</p> <p>8. Lysolaje III Gr. 1: 2 Decorated handled Bell
Beakers, 2 copper ear-rings, jug, small
jug, 'Topf', copper awl.</p> |
|---|---|

Table 4.I (b)
(continued)

Decorated Bell Beakers with continuous zones

Bohemia

No Begleitkeramik	Begleitkeramik
	9. Kolín VI Gr. 12: Decorated Bell Beaker, 2 small jugs, flint axe.
	10. Tišice I Gr. 2: 3 Decorated Bell Beakers, bowl.
	11. Praha Krč II Gr. 1: Decorated Bell Beaker, handled 'Topf'.
	12. Lysolaje III Gr. 1: Decorated handled Bell Beaker, small jug, jug, bowl, 2 copper ear-rings.

Table 4.I (b) Associations of decorated Bell Beakers with continuous (i.e. non-metopic)
zones. Bohemia.

STATE OF NEW YORK

IN SENATE
January 1, 1907

REPORT

OF THE

COMMISSIONERS OF THE LAND OFFICE

IN RESPONSE TO A RESOLUTION PASSED BY THE SENATE

APRIL 1, 1906

ALBANY: J. B. LEECH, STATE PRINTER, 1907.

THE LAND OFFICE HAS THE HONOR TO ACKNOWLEDGE THE RECEIPT OF THE

REPORT

OF THE COMMISSIONERS OF THE LAND OFFICE

IN RESPONSE TO A RESOLUTION PASSED BY THE SENATE

APRIL 1, 1906

AND TO CERTIFY THAT THE SAME HAS BEEN READ AND APPROVED BY THE SENATE

ON JANUARY 1, 1907

Name	Type of site	Decorated Bell Beaker sherds	Others
Bedřichovice	Pit(s)	2	over 30
Brno-Bosonohy	Pit	2	26
Brno-Medlanky	Pit	+	+
Brno-Obrány	Pit	1	c.500-600
Čechůvky	'Culture layer'	8	3
Dolní Sukolom	Pit 1	9	48
	Pit 2	7	29
Klobouky 1	Pit	2	5
		(only these survive)	
Klobouky 2	Pit 1	-	+
	Pit 2	-	+
	Pit 3	14	over 18
Mostkovice	Pit 1	+	+
	Pit 2	-	+
Rajhrad	Pit	-	47
Střelice 'Klobouček'	Pits	+	+
	surviving in museum	5	16
Šlapanice	Pit	+	+
Lazce	Pit	+	+
Těšetice	Pit	8	22
Určice 1	Pit	+	+
Určice 2	Pit	-	4
Vanovice	Pit	+	+
Vrahovice	Pit	+	+
	surviving in museum	4	8
Želechovice	Pit	+	+
Želešice	Pit	8	over 10

Table 4.II Summary description of adequately reported Bell Beaker culture settlements from Moravia. The numbers refer to the number of sherds present; the + sign simply indicates the presence of the type.

Table 2.11 Summary description of observations reported by subjects and their relationship to the presence of the stimulus. The numbers refer to the number of observations present; the + sign indicates the presence of the stimulus.

Stimulus	Response	Observations	Relationship
Stimulus 1	+	Stimulus 1	+
Stimulus 2	+	Stimulus 2	+
Stimulus 3	+	Stimulus 3	+
Stimulus 4	+	Stimulus 4	+
Stimulus 5	+	Stimulus 5	+
Stimulus 6	+	Stimulus 6	+
Stimulus 7	+	Stimulus 7	+
Stimulus 8	+	Stimulus 8	+
Stimulus 9	+	Stimulus 9	+
Stimulus 10	+	Stimulus 10	+
Stimulus 11	+	Stimulus 11	+
Stimulus 12	+	Stimulus 12	+
Stimulus 13	+	Stimulus 13	+
Stimulus 14	+	Stimulus 14	+
Stimulus 15	+	Stimulus 15	+
Stimulus 16	+	Stimulus 16	+
Stimulus 17	+	Stimulus 17	+
Stimulus 18	+	Stimulus 18	+
Stimulus 19	+	Stimulus 19	+
Stimulus 20	+	Stimulus 20	+
Stimulus 21	+	Stimulus 21	+
Stimulus 22	+	Stimulus 22	+
Stimulus 23	+	Stimulus 23	+
Stimulus 24	+	Stimulus 24	+
Stimulus 25	+	Stimulus 25	+
Stimulus 26	+	Stimulus 26	+
Stimulus 27	+	Stimulus 27	+
Stimulus 28	+	Stimulus 28	+
Stimulus 29	+	Stimulus 29	+
Stimulus 30	+	Stimulus 30	+
Stimulus 31	+	Stimulus 31	+
Stimulus 32	+	Stimulus 32	+
Stimulus 33	+	Stimulus 33	+
Stimulus 34	+	Stimulus 34	+
Stimulus 35	+	Stimulus 35	+
Stimulus 36	+	Stimulus 36	+
Stimulus 37	+	Stimulus 37	+
Stimulus 38	+	Stimulus 38	+
Stimulus 39	+	Stimulus 39	+
Stimulus 40	+	Stimulus 40	+
Stimulus 41	+	Stimulus 41	+
Stimulus 42	+	Stimulus 42	+
Stimulus 43	+	Stimulus 43	+
Stimulus 44	+	Stimulus 44	+
Stimulus 45	+	Stimulus 45	+
Stimulus 46	+	Stimulus 46	+
Stimulus 47	+	Stimulus 47	+
Stimulus 48	+	Stimulus 48	+
Stimulus 49	+	Stimulus 49	+
Stimulus 50	+	Stimulus 50	+

<u>Cluster 1</u>		<u>Cluster 1</u>	
Site	Grave	Site	Grave
Letonice 1	3	Brankovice 1	2
Marefy 1	1	Šlapanice 7	41
Marefy 1	5	Holešov 1	5
Němčice 2	4	Holešov 1	6
Němčice 2	4	Holešov 1	7
Hrubčice 2	2	Tešetice 1	1
Kobylnice 1	13	Tešetice 1	1
 <u>Others</u>		 <u>Others</u>	
Site	Grave	Site	Grave
Slavkov 4	5	Postoupky 1	1
Němčice 2	1	Postoupky 1	1
Němčice 2	1	Chrlice 1	2
Kobylnice 1	5	Chrlice 1	2
Kobylnice 1	20	Chrlice 1	2
Kobylnice 1	23	Chrlice 1	3
Šlapanice 7	5	Chrlice 1	3
Šlapanice 7	2	Senice 1	
Šlapanice 7	35	Senice 1	
Brno-Julianov 3	1	Senice 1	
Holešov 1	8	Senice 1	
Příkasy 1	1	Senice 1	

Table 4.III Provenances of the 38 Moravian jugs for which drawings were available.

Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4

Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4
Station 1	Station 2	Station 3	Station 4

Table 2.111 Investigation of the 36 stations for which significant results were available.

BANK	FIRST GROUP VALUES	SECOND GROUP VALUES	FIRST GROUP ITEM NO.	SECOND GROUP ITEM NO.
1	-0.17332		6	
2		-0.18052		9
3	-0.18230		9	
4	-0.18895		3	
5		-0.19101		20
6	-0.20472		1	
7	-0.21117		11	
8	-0.21395		7	
9		-0.21740		6
10	-0.22196		13	
11	-0.22400		8	
12	-0.22922		2	
13	-0.23224		4	
14	-0.23455		10	
15		-0.23966		8
16		-0.24056		13
17		-0.25384		11
18	-0.25914		5	
19		-0.26445		19
20		-0.26784		5
21		-0.27423		23
22		-0.27465		22
23		-0.28269		2
24		-0.28379		12
25	-0.28541		14	
26		-0.28561		14
27		-0.28754		16
28		-0.28792		15
29		-0.28942		18
30		-0.28990		7
31	-0.29510		12	
32		-0.29811		1
33		-0.29929		4
34		-0.30143		3
35		-0.30394		21
36		-0.30512		10
37		-0.30632		24
38		-0.33449		17

Table 4.IV Moravian jugs ranked on the discriminant function.

The left hand group is those jugs associated with 'Cluster 1' goods, the right hand group is the remainder.

GROUP	NUMBER OF CASES CLASSIFIED INTO GROUP -		
	A	X	Y
A	11	1	2
X	1	8	3
Y	3	3	6

Table 4.V Classification matrix produced by discriminant analysis for the three groups of Moravian jugs.

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK
1-1-77	...	...	...	...
1-2-77	...	...	...	...
1-3-77	...	...	...	...
1-4-77	...	...	...	...
1-5-77	...	...	...	...
1-6-77	...	...	...	...
1-7-77	...	...	...	...
1-8-77	...	...	...	...
1-9-77	...	...	...	...
1-10-77	...	...	...	...
1-11-77	...	...	...	...
1-12-77	...	...	...	...
1-13-77	...	...	...	...
1-14-77	...	...	...	...
1-15-77	...	...	...	...
1-16-77	...	...	...	...
1-17-77	...	...	...	...
1-18-77	...	...	...	...
1-19-77	...	...	...	...
1-20-77	...	...	...	...
1-21-77	...	...	...	...
1-22-77	...	...	...	...
1-23-77	...	...	...	...
1-24-77	...	...	...	...
1-25-77	...	...	...	...
1-26-77	...	...	...	...
1-27-77	...	...	...	...
1-28-77	...	...	...	...
1-29-77	...	...	...	...
1-30-77	...	...	...	...
1-31-77	...	...	...	...

...

...

...

'Cluster 1' jugs

Group	Site	Number of vessels
A	Šlapanice	1
B	Kobylnice	1
C	Nemčice	2
D	Holešov	3
E	Těšetice	2
F	Marefy	2
G	Others	3

Other jugs

Group	Site	Number of vessels
S	Chrlice	5
T	Senice	5
U	Šlapanice	3
V	Kobylnice	3
W	Nemčice	2
X	Holešov	1
Y	Postoupky	2
Z	Others	3

Table 4.VI Moravian jugs divided by site and association for canonical analysis.

Table 1.1

Year	Age	Sex
1	10	Male
2	10	Female
3	10	Male
4	10	Female
5	10	Male
6	10	Female
7	10	Male
8	10	Female

Table 1.2

Year	Age	Sex
1	10	Male
2	10	Female
3	10	Male
4	10	Female
5	10	Male
6	10	Female
7	10	Male
8	10	Female

Table 1.3 Summary of data for the first two tables.

FIGURE VALUES

8.23 0.84 0.63 0.18 0.06 0.03 0.02 0.01 0.00 0.00

PERCENTAGE VARIANCE

82.34 8.40 6.30 1.84 0.57 0.27 0.19 0.07 0.05 0.03

CUMULATIVE VARIANCE

82.34 90.73 97.02 98.85 99.42 99.68 99.86 99.93 99.98 100.00

EIGENVECTORS - BY ROWS

VECTOR 1 0.286 0.311 0.331 0.336 0.328 0.332 0.333 0.330 0.319 0.246
 VECTOR 2 -0.601-0.484-0.306-0.004 0.258 0.261 0.245 0.253 0.212 0.087
 VECTOR 3 0.025-0.045-0.065-0.191-0.213-0.174-0.155-0.111 0.301 0.869
 VECTOR 4 0.190 0.060-0.152-0.231-0.345-0.192 0.148 0.429 0.557-0.335
 VECTOR 5 -0.365 0.029 0.285 0.479-0.050-0.236-0.412-0.136 0.521-0.193
 VECTOR 6 -0.476 0.155 0.604-0.246-0.428 0.117 0.310 0.030-0.164 0.047
 VECTOR 7 0.077-0.256-0.054 0.545-0.392-0.342 0.141 0.472-0.315 0.130
 VECTOR 8 -0.216 0.510-0.180-0.058 0.377-0.617 0.245 0.080-0.102 0.067
 VECTOR 9 0.074-0.019-0.224 0.267-0.241-0.031 0.628-0.616 0.207-0.064
 VECTOR 10 0.221-0.559 0.489-0.191 0.340-0.431 0.204-0.102 0.054-0.037

Table 4.VII Results of the principal components analysis
 carried out on the Moravian jugs.

GROUP	NUMBER OF CASES CLASSIFIED INTO GROUP -			
	A	X	Y	Z
L	30	11	7	9
X	13	10	18	4
Y	9	8	19	9
Z	15	7	11	13

Table 4.VIII Classification matrix produced by discriminant analysis
 for four groups of Moravian jugs. (3 ratio data).

MONTHLY SUMMARY									
1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

The following table shows the percentage of the total population of the United States in each of the five age groups, by sex, for the years 1950 through 1959. The percentages are based on the 1950 Census of the United States.

Age Group	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Under 15	27.1	27.0	26.9	26.8	26.7	26.6	26.5	26.4	26.3	26.2
15-24	13.2	13.1	13.0	12.9	12.8	12.7	12.6	12.5	12.4	12.3
25-34	12.8	12.7	12.6	12.5	12.4	12.3	12.2	12.1	12.0	11.9
35-44	12.5	12.4	12.3	12.2	12.1	12.0	11.9	11.8	11.7	11.6
45-54	12.2	12.1	12.0	11.9	11.8	11.7	11.6	11.5	11.4	11.3
55-64	11.9	11.8	11.7	11.6	11.5	11.4	11.3	11.2	11.1	11.0
65-74	11.6	11.5	11.4	11.3	11.2	11.1	11.0	10.9	10.8	10.7
75-84	11.3	11.2	11.1	11.0	10.9	10.8	10.7	10.6	10.5	10.4
85 and over	11.0	10.9	10.8	10.7	10.6	10.5	10.4	10.3	10.2	10.1

PERCENTAGE OF TOTAL POPULATION				
1	2	3	4	5
100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0

The following table shows the percentage of the total population of the United States in each of the five age groups, by sex, for the years 1950 through 1959. The percentages are based on the 1950 Census of the United States.

Site	Number of graves	Number with decorated Beakers	Number with other goods of the Beaker cluster
Bílina 6	5	0	1
Brandýsek 1	22	2	3
Bylany 1	6	3	2
Ďáblice 1	over 14	0	0
Dolní Chabry 1	6	2	0
Chrást 2	5	0	2
Jenčice 1	8	0	0
Kněževy 1	13	0	0
Kolín 6	13	6	2
Libochovice 2	7	0	1
Lochenice 1	6	1	3
Lovosice 1	10	3	1
Lovosice 4	11	3	0
Lysolaje 3	25	7	6
Most 5	7	1	0
Neratovice 1	24	6	4
Ohrada 1	7	0	0
Postoloprty 3	5	0	1
Praha 6-Dejvice	5	0	0
Praha 8-Kobylisy	6	0	0
Praha 8-Libeň	6	0	0
Praha 10-Vršovice	6	0	2
Řež 1	9	1	1
Svobodné Dvory 1	9	1	5
Tišice 1	11	3	0

Table 4.IX
continued

Site	Number of graves	Number with decorated Beakers	Number with other goods of the Beaker cluster
Tlustovousy 1	9	0	0
Třebusice 1	6	0	0
Všetaty 1	10	2	0

Table 4.IX Bohemian sites with five or more graves.

Page 4 of 4

Item	Quantity	Unit Price	Total Price
1.000	1.000	1.000	1.000
2.000	2.000	2.000	4.000
3.000	3.000	3.000	9.000

Total: 13.000

		Base point		
		Bell Beaker	No Bell Beaker	
		A	B	
Nearest Neighbour	Bell Beaker A	4	9	13
	No Bell Beaker B	9	5	14
		13	14	27

Table 4.X Bohemian Bell Beaker cemeteries divided into those containing decorated Bell Beakers and those without. Contingency table shows for every site whether its nearest neighbour contained a decorated Bell Beaker or not.

TABLE I	
Year	Value
1911	100
1912	105
1913	110
1914	115
1915	120
1916	125
1917	130
1918	135
1919	140
1920	145
1921	150
1922	155
1923	160
1924	165
1925	170
1926	175
1927	180
1928	185
1929	190
1930	195
1931	200
1932	205
1933	210
1934	215
1935	220
1936	225
1937	230
1938	235
1939	240
1940	245
1941	250
1942	255
1943	260
1944	265
1945	270
1946	275
1947	280
1948	285
1949	290
1950	295
1951	300
1952	305
1953	310
1954	315
1955	320
1956	325
1957	330
1958	335
1959	340
1960	345
1961	350
1962	355
1963	360
1964	365
1965	370
1966	375
1967	380
1968	385
1969	390
1970	395
1971	400
1972	405
1973	410
1974	415
1975	420
1976	425
1977	430
1978	435
1979	440
1980	445
1981	450
1982	455
1983	460
1984	465
1985	470
1986	475
1987	480
1988	485
1989	490
1990	495
1991	500
1992	505
1993	510
1994	515
1995	520
1996	525
1997	530
1998	535
1999	540
2000	545
2001	550
2002	555
2003	560
2004	565
2005	570
2006	575
2007	580
2008	585
2009	590
2010	595
2011	600
2012	605
2013	610
2014	615
2015	620
2016	625
2017	630
2018	635
2019	640
2020	645
2021	650
2022	655
2023	660
2024	665
2025	670
2026	675
2027	680
2028	685
2029	690
2030	695
2031	700
2032	705
2033	710
2034	715
2035	720
2036	725
2037	730
2038	735
2039	740
2040	745
2041	750
2042	755
2043	760
2044	765
2045	770
2046	775
2047	780
2048	785
2049	790
2050	795
2051	800
2052	805
2053	810
2054	815
2055	820
2056	825
2057	830
2058	835
2059	840
2060	845
2061	850
2062	855
2063	860
2064	865
2065	870
2066	875
2067	880
2068	885
2069	890
2070	895
2071	900
2072	905
2073	910
2074	915
2075	920
2076	925
2077	930
2078	935
2079	940
2080	945
2081	950
2082	955
2083	960
2084	965
2085	970
2086	975
2087	980
2088	985
2089	990
2090	995
2091	1000
2092	1005
2093	1010
2094	1015
2095	1020
2096	1025
2097	1030
2098	1035
2099	1040
2100	1045

TABLE II
 Showing the average number of persons per family in the United States from 1900 to 1960.
 The average number of persons per family has increased steadily from 1900 to 1960, and is expected to continue to increase in the future.
 The average number of persons per family in 1900 was 3.5, and in 1960 it was 3.7.
 The average number of persons per family in 1900 was 3.5, and in 1960 it was 3.7.

Name	Type of site	Total sherds	Decorated Bell Beaker sherds	Others
Bžany	Pit			+
Chudonice	Pit	475	+	+
Jenštejn	Pit		1	+
Kolín	12 Pits		+	+
			(in 3 of pits)	
Kozly	Pits and post-holes	164	11	153
Lovosice	Pit 1		+	+
	Pit 2			+
	Pit 3			+
Lysolaje	Pit 1		+	+
Nebovidy	Pit		1	+
Popovice	?		2	+
Porčany	Pit		+	+
Praha 8-Kobylisy	Pit			+
Praha 10-Hoštivar	Pit		+	+
Semice	Pit		+	+
Vraněny	Pit		+	+

Table 4.XI Summary description of adequately reported Bell Beaker culture settlements from Bohemia. The numbers refer to the number of sherds present; the + sign simply indicates the presence of the type.

Form	Type of site	Number of sites	Number of sites
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

Indicates the presence of the type.

as the number of sites present; the + sign indicates

absence of the type.

Indicates the presence of the type.

Table 4.XII Provenances of the 65 Bohemian jugs for which drawings were available

<u>Cluster 1</u>		<u>Cluster 1</u>	
<u>Site</u>	<u>Grave</u>	<u>Site</u>	<u>Grave</u>
Rožďalovice 1	1	Bylany 1	5
Rožďalovice 1	1	Rosnice 1	1
Řež 1	3	Rosnice 1	2
Řež 1	3	Brandýsek 1	19
Řež 1	3	Brandýsek 1	22
Lysolaje 3	6	Brandýsek 1	71
Lysolaje 3	6	Brandýsek 1	71
Bylany 1	2	Třebovle 1	1
<u>Others</u>		<u>Others</u>	
<u>Site</u>	<u>Grave</u>	<u>Site</u>	<u>Grave</u>
Řež 1	4	Kněžves 1	12
Řež 1	5	Kněžves 1	4
Řež 1	5	Kněžves 1	8
Řež 1	7	Kněžves 1	11
Neratovice 1	9	Kněžves 1	11
Neratovice 1	9	Kněžves 1	5
Neratovice 1	3	Kněžves 1	6
Neratovice 1	13	Kněžves 1	11
Neratovice 1	12	Ďáblice 1	5
Neratovice 1	12	Ďáblice 1	5
Neratovice 1	11	Ďáblice 1	5
Brandýsek 1	18	Ďáblice 1	5
Brandýsek 1	20	Ďáblice 1	6
Brandýsek 1	25	Ďáblice 1	2
Brandýsek 1	67	Ďáblice 1	4
Tlustovousy 1	6	Ďáblice 1	14
Tlustovousy 1	8	Ďáblice 1	11
Kolín-Zálabi 1	1	Ďáblice 1	12
Kolín-Zálabi 1	2	Kolín 6	1
Kolín-Zálabi 1	3	Lysolaje 3	2
Libochovice 1	7	Praha-Motol 1	1
Bílina 8	1	Polepy 1	1
Losanky 1	1	Most 5	6
Poboří 1	1	Ohrada 1	2
Třebovle 1	1	Třebešice 1	1

GROUP	NUMBER OF CASES CLASSIFIED INTO GROUP -			
	A	X	Y	Z
A	9	4	2	1
X	3	5	5	3
Y	2	2	10	2
Z	3	5	1	8

Table 4.XIII Classification matrix produced by discriminant analysis on four groups of Bohemian jugs.
(12 ratio data).

'Cluster 1' jugs

<u>Group</u>	<u>Site</u>	<u>Number of vessels</u>
A	Řež	3
B	Rožďalovice	2
C	Lysolaje	2
D	Bylany	2
E	Brandýsek	4
F	Rosnice	2
G	Others	1

Other jugs

<u>Group</u>	<u>Site</u>	<u>Number of vessels</u>
R	Řež	4
S	Kněžves	8
T	Lysolaje	1
U	Neratovice	7
V	Ďáblice	10
W	Brandýsek	4
X	Tlustovousy	2
Y	Kolín-Zálabí	3
Z	Others	10

Table 4.XIV Bohemian jugs divided by site and association for canonical analysis.

TABLE 1. - *Continued*

TABLE 2. - *Continued*

TABLE 3. - *Continued*

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TABLE 4. - *Continued*

TABLE 5. - *Continued*

TABLE 6. - *Continued*

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TABLE 7. - *Continued*

TABLE 8. - *Continued*

Table 5.I Results of tests on the significance of the difference between the mean number of types/goods in a) those graves with 'cluster 1' goods and those without and b) those graves with decorated Bell Beakers and those without.

5.I ai. Mean number of types.

N_1 Number of graves with 'cluster 1' goods = 90

N_2 Number of graves without 'cluster 1' goods = 110

$$\bar{X}_1 = 4.03 \pm 4.19$$

$$\bar{X}_2 = 2.31 \pm 2.51$$

$$t = 3.41 \text{ w. } 198 \text{ df}$$

Significant at the 0.0005 level for a 1 tailed test.

5.Ia ii Mean number of goods

N_1 Number of graves with 'cluster 1' goods = 90

N_2 Number of graves without 'cluster 1' goods = 110

$$\bar{X}_1 = 6.40 \pm 8.08$$

$$\bar{X}_2 = 3.26 \pm 3.67$$

$$t = 3.46 \text{ w. } 198 \text{ df}$$

Significant at the 0.0005 level for a 1 tailed test.

5.Ib i Mean number of types

N_1 = Number of graves with decorated Bell Beakers = 71

N_2 = Number of graves without decorated Bell Beakers = 129

$$\bar{X}_1 = 4.12 \pm 4.48$$

$$\bar{X}_2 = 2.51 \pm 2.81$$

$$t = 2.74 \text{ w. } 112 \text{ df}$$

Significant at the 0.005 level for a 1 tailed test.

Table 1. Results of analysis of variance of the difference between the mean number of types of goods in (a) those graves with decorated goods and (b) those graves with decorated goods and those without.

1.1. Mean number of types

$\bar{X}_1$ = mean number of types in graves with decorated goods = 50
 $\bar{X}_2$ = mean number of types in graves without decorated goods = 40

$$\bar{X}_1 = 50$$

$$\bar{X}_2 = 40$$

$$s^2 = 100$$

Significant at the 0.05 level for a 2-tailed test.

1.2. Mean number of types

$\bar{X}_1$ = mean number of types in graves with decorated goods = 50
 $\bar{X}_2$ = mean number of types in graves without decorated goods = 40

$$\bar{X}_1 = 50$$

$$\bar{X}_2 = 40$$

$$s^2 = 100$$

Significant at the 0.05 level for a 2-tailed test.

1.3. Mean number of types

$\bar{X}_1$ = mean number of types in graves with decorated goods = 50
 $\bar{X}_2$ = mean number of types in graves without decorated goods = 40

$$\bar{X}_1 = 50$$

$$\bar{X}_2 = 40$$

$$s^2 = 100$$

Significant at the 0.05 level for a 2-tailed test.

Table 5.I continued

5.Ib ii Mean number of goods

N_1 = Number of graves with decorated Bell Beakers = 71

N_2 = Number of graves without decorated Bell Beakers = 129

$$\bar{X}_1 = 6.32 \pm 8.19$$

$$\bar{X}_2 = 3.58 \pm 4.44$$

$$t = 2.56 \text{ w. } 94 \text{ df}$$

Significant at the 0.01 level for a 1 tailed test.

Table 5.II Results of tests on the significance of the difference between the mean number of types/goods in a) those graves with Bohemian 'cluster 1' goods and those without and b) those graves with decorated Bell Beakers and those without. Bohemia.

5.II a i. Mean number of types.

N_1 Number of graves with 'cluster 1' goods = 58

N_2 Number of graves without 'cluster 1' goods = 141

$$\bar{X}_1 = 3.55 \pm 3.96$$

$$\bar{X}_2 = 2.33 \pm 2.57$$

$$t = 2.15 \text{ w. } 76 \text{ df}$$

Significant at the 0.025 level for a 1 tailed test.

5.II a ii. Mean number of goods.

N_1 Number of graves with 'cluster 1' goods = 58

N_2 Number of graves without 'cluster 1' goods = 141

$$\bar{X}_1 = 4.69 \pm 5.62$$

$$\bar{X}_2 = 2.91 \pm 3.54$$

$$t = 2.22 \text{ w. } 74 \text{ df}$$

Significant at the 0.025 level for a 1 tailed test.

5.II b i. Mean number of types.

N_1 = Number of graves with decorated Bell Beakers = 104

N_2 = Number of graves without decorated Bell Beakers = 476

$$\bar{X}_1 = 2.51 \pm 2.96$$

$$\bar{X}_2 = 1.86 \pm 2.16$$

$$t = 2.11 \text{ w. } 132 \text{ df}$$

Significant at the 0.025 level for a 1 tailed test.

Table 1. Results of tests on the efficiency of the treatment
 against the development of *Plasmodium* in the mosquito
 larvae. The results are given in Table 1. The results are given in Table 1.

Table 2. Results of tests on the efficiency of the treatment

1. <i>Plasmodium</i> in the mosquito larvae	0.00
2. <i>Plasmodium</i> in the mosquito larvae	0.00
3. <i>Plasmodium</i> in the mosquito larvae	0.00
4. <i>Plasmodium</i> in the mosquito larvae	0.00
5. <i>Plasmodium</i> in the mosquito larvae	0.00
6. <i>Plasmodium</i> in the mosquito larvae	0.00
7. <i>Plasmodium</i> in the mosquito larvae	0.00
8. <i>Plasmodium</i> in the mosquito larvae	0.00
9. <i>Plasmodium</i> in the mosquito larvae	0.00
10. <i>Plasmodium</i> in the mosquito larvae	0.00

Table 3. Results of tests on the efficiency of the treatment

1. <i>Plasmodium</i> in the mosquito larvae	0.00
2. <i>Plasmodium</i> in the mosquito larvae	0.00
3. <i>Plasmodium</i> in the mosquito larvae	0.00
4. <i>Plasmodium</i> in the mosquito larvae	0.00
5. <i>Plasmodium</i> in the mosquito larvae	0.00
6. <i>Plasmodium</i> in the mosquito larvae	0.00
7. <i>Plasmodium</i> in the mosquito larvae	0.00
8. <i>Plasmodium</i> in the mosquito larvae	0.00
9. <i>Plasmodium</i> in the mosquito larvae	0.00
10. <i>Plasmodium</i> in the mosquito larvae	0.00

Table 4. Results of tests on the efficiency of the treatment

1. <i>Plasmodium</i> in the mosquito larvae	0.00
2. <i>Plasmodium</i> in the mosquito larvae	0.00
3. <i>Plasmodium</i> in the mosquito larvae	0.00
4. <i>Plasmodium</i> in the mosquito larvae	0.00
5. <i>Plasmodium</i> in the mosquito larvae	0.00
6. <i>Plasmodium</i> in the mosquito larvae	0.00
7. <i>Plasmodium</i> in the mosquito larvae	0.00
8. <i>Plasmodium</i> in the mosquito larvae	0.00
9. <i>Plasmodium</i> in the mosquito larvae	0.00
10. <i>Plasmodium</i> in the mosquito larvae	0.00

Table 5.II continued

5.II b ii. Mean number of goods

N_1 = Number of graves with decorated Bell Beakers = 104

N_2 = Number of graves without decorated Bell Beakers = 476

$$\bar{X}_1 = 3.16 \pm 4.08$$

$$\bar{X}_2 = 2.31 \pm 2.89$$

$t = 2.0$ w. 129 df

Significant at the 0.025 level for a 1 tailed test.

NE. In table 5.IIb the total sample of graves has been increased since with only 200 graves the number of occurrences of decorated Bell Beakers was too small for the test to be carried out.

11.11. New number of work

1. = Number of work
2. = Number of work

3. = 1.2
4. = 1.2

5. = 1.2

6. = 1.2
7. = 1.2
8. = 1.2
9. = 1.2

Table 5.III Distribution of objects between adults and children.

a) Jugs	<u>Adults</u>	<u>Children</u>
Bohemia	17	9
Moravia	14	13
b) 'Cluster 1' goods	<u>Adults</u>	<u>Children</u>
Bohemia	5	1
Moravia	7	4
c) Decorated Bell Beakers	<u>Adults</u>	<u>Children</u>
Bohemia	4	1
Moravia	8	3
Bohemia and Moravia combined	12	4
d) All non-ceramic goods combined	<u>Adults</u>	<u>Children</u>
Bohemia	9	0
Moravia	9	1
e) More than 3 goods types	<u>Adults</u>	<u>Children</u>
Bohemia	6	0
Moravia	9	2

Table 1. Distribution of subjects by sex and age.

Age (years)

18

20

Age (years)

22

24

Age (years)

26

28

Age (years)

30

32

Age (years)

34

36

Table 5.IV The side on which individuals were lying in the grave
tabulated against their sex, where known.

a) Moravia

	Male	Female	
RHS	4	4	8
LHS	3	0	3
	7	4	11

b) Bohemia

	Male	Female	
RHS	1	2	3
LHS	12	1	13
	13	3	16

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Table 5.V The side on which the skeleton was lying tabulated against the presence of certain objects.

a) Moravia

i) Decorated Bell Beakers

	Present	Absent	
LHS	22	52	74
RHS	17	55	72
	39	107	146

ii) Cluster 1

	Present	Absent	
LHS	38	38	76
RHS	23	53	76
	61	91	152

iii) V-perforated buttons

	Present	Absent	
LHS	3	73	76
RHS	16	57	73
	19	130	149

Table 5.V continued

iv) 'Topf'

	Present	Absent	
LHS	10	56	66
RHS	30	42	72
	40	98	138

b) Bohemia

i) Decorated Bell Beaker

	Present	Absent	
LHS	18	80	98
RHS	8	42	50
	26	122	148

ii) Bohemian Cluster 1

	Present	Absent	
LHS	25	76	101
RHS	11	39	50
	36	115	151

Page 100

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100	100
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100	100	100	100
100	100	100	100
100	100	100	100

Table 5.V continued

iii) V-perforated buttons

	Present	Absent	
LHS	1	100	101
RHS	4	45	49
	5	145	150

iv) 'Topf

	Present	Absent	
LHS	7	87	94
RHS	8	40	48
	15	127	142

transmission Y. 10/10

(11) Transmitted distance

Transmitted distance		Y. 10/10	
101	101	101	101
102	102	102	102
103	103	103	103

Transmitted distance

Transmitted distance		Y. 10/10	
104	104	104	104
105	105	105	105
106	106	106	106

Table 6.I a Association of 'early', 'middle' and 'late' decorated
Bell Beakers with other objects.

<u>Object associated</u>	<u>Decorated Bell Beaker type</u>		
	<u>Early</u>	<u>Middle</u>	<u>Late</u>
No association (decorated Bell Beaker alone)		2	6
Jug	1		2
Arrowhead		1	1
Pot			2
Undecorated Handled Bell Beaker			1
Wrist-guard		1	
Blade			1
Flake			2
Boars tusk			1
Tanged dagger		1	
Sherds	1		2
Stone axe	1		
Shell			1
Amber V-perforated button			1
Belt-hook		1	
Total number of decorated Bell Beakers	3	3	10

Table 1.1. Association of 'early', 'middle' and 'late' decorated
Bell Beakers with other objects.

Decorated Bell Beaker type

<u>Object associated</u>	<u>Early</u>	<u>Middle</u>	<u>Late</u>
to association			
(decorated Bell Beaker)	8	2	
(alone)			
the	2		
ironhead	1	1	
bol	2		
decorated bowl	1		
Bell Beaker			
whist-gourd		1	
blade	1		
flint	2		
spoon with	1		
decorated dagger		1	
stone	2		1
stone axe			1
shell	1		
decorated button	1		
iron-head		1	
Total number of decorated Bell Beakers	10	3	2

Table 6.Ib Association of 'early', 'middle' and 'late' decorated Bell Beakers with the side on which the skeleton was lying in grave.

Side lying	<u>Decorated Bell Beaker type</u>		
	Early	Middle	Late
LHS	1	2	3
RHS	0	0	5

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Table 6.II Association between certain grave attributes, including common grave good types, and the sex of the individual buried.

i) Side-lying

Side lying	Sex		
	M	F	
LHS	18	5	23
RHS	4	12	16
	22	17	39

ii) Presence of stone cist/wood construction

Grave type	Sex		
	M	F	
Simple earth pit	28	25	53
Stone/cist wood construction	13	7	20
	41	32	73

iii) Occurrence of decorated or undecorated Bell Beaker (these are mutually exclusive).

	Sex		
	M	F	
Decorated Bell Beaker	17	4	21
Undecorated Bell Beaker	14	20	34
	31	24	55

Table II. Association between certain types of behavior, including common sense good types, and the sex of the individual subject.

1. Male-1949

Age	Sex	Score
15	1	15
16	1	16
17	1	17

2. Female-1949

Age	Sex	Score	Common sense	Good types
15	2	15	15	15
16	2	16	16	16
17	2	17	17	17

iii. Occurrence of deviant or unassociated self behavior (these are actually exclusive).

Age	Sex	Score	Deviant	Unassociated
15	1	15	15	15
16	1	16	16	16
17	1	17	17	17

Table 6.II (continued)

iv) Other objects

	Sex	
	M	F
Animal bones	10	1
Wrist-guards	6	0
Chipped stone	13	1
Polypod bowl	2	2
Bowl	1	3
Undecorated Handled Bell Beaker	1	3

(b) Other objects

See

Material	1	2	3
Plastic	1	1	1
Glass	1	1	1
Metal	1	1	1
Wood	1	1	1
Paper	1	1	1
Other	1	1	1

Table 6.III List of values attached to grave goods for points system.

Copper tanged dagger	15
Wrist-guard	12
Amber	12
Decorated Bell Beaker	10
Decorated Handled Bell Beaker	10
Polypod bowl	10
Bone pendant	9
Stone axe	8
Stone chisel	8
Polishing stone	8
Boars tusk	8
Undecorated Bell Beaker	7
Undecorated handled Bell Beaker	7
Animal bones	7
Bowl	7
Jug	7
Bone point	5
Bone pin	5
Antler object	5
Pot	4
Handled 'Topf'	4
Coarse basin	4
Arrowhead	4
Shell	4
Scraper	3
Blade	2
Sherds	1
Flake	1
Burnt clay	1

Page 100 - List of names referred to in the text.

1	John Doe
2	John Doe
3	John Doe
4	John Doe
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93	John Doe
94	John Doe
95	John Doe
96	John Doe
97	John Doe
98	John Doe
99	John Doe
100	John Doe

Table 6.IV The graves are divided into those with more than 20 points and those with more than 20 points. The contingency table shows whether or not each site's nearest neighbour has a grave scoring more than 20 points.

Base point	nearest neighbour			
	20 points		20 points	
	20 points	9	10	19
	20 points	9	32	41
		18	42	60

The given are $\sin A = \frac{3}{5}$ and $\sin B = \frac{4}{5}$. The triangle is acute-angled. The side opposite to A is a and the side opposite to B is b . Find the value of $\frac{a}{b}$.

Solution:	
$\sin A = \frac{3}{5}$	$\sin B = \frac{4}{5}$
$\cos A = \frac{4}{5}$	$\cos B = \frac{3}{5}$
$\frac{a}{b} = \frac{\sin A}{\sin B} = \frac{3/5}{4/5} = \frac{3}{4}$	

Table 6.V Distribution of male ages at death.

<u>Age category</u>	<u>Number of individuals</u>
Juvenilis	3
Adultus	10
Maturus	27
Senilis	2

10-11-1941 1.3-1941

10-11-1941 1.3-1941

10-11-1941 1.3-1941

1	10-11-1941
2	10-11-1941
3	10-11-1941
4	10-11-1941
5	10-11-1941

Table 7.I Bell Beaker Culture Pottery in Bohemia (excluding settlements)

Decorated Bell Beakers (including those with handles)	11%
Undecorated jugs	42%
Undecorated bowls	23%
Others	24%
Total number of vessels	1647

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Table 7.II Bell Beaker Culture Pottery in Moravia (graves only)

Decorated Bell Beakers (including those with handles)	17%
Undecorated jugs	41%
Undecorated bowls	21%
Others	21%
Total number of vessels	2132

Table 9.I Domestic animals documented for late Neolithic groups in Central Germany. (Information from Behrens 1973).

+ denotes presence.

Culture	Cattle	Sheep	Goat	Pig	Horse	Dog
Baalberg	+	+	+	+		+
Salzmunde	+	+	+	+		+
Walternienburg	+	+	+			+
Bernburg	+	+	+	+		+
Globular Amphora	+	+		+		+
Corded Ware	+	+	+	+	+	+
Bell Beaker				+		

Table 9.II Domestic animals documented for Eneolithic groups in
Bohemia and Moravia. (Information from a variety of
sources.)

+ denotes presence.

Culture	Cattle	Sheep	Goat	Pig	Horse	Dog
Earlier TRB/Jevišovice C2	+	+	+	+		+
Salzmunde TRB/Jevišovice C1	+	+	+	+		+
Řivnáč/Jevišovice B	+	+	+	+	+	+
Corded Ware	+	+	+	+		+
Bell Beaker	+	+	+	+	+	+

1. The results of the investigation are as follows:

2. The results of the investigation are as follows:

3. The results of the investigation are as follows:

4. The results of the investigation are as follows:

Results of the investigation			
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

Table 9.III Plant crops documented for the late Neolithic in
Central Germany.

+ denotes presence.

Culture	Barley	Emmer	Einkorn	Other	Total impressions
Corded Ware	23	17	7	29	76
Schönfeld	+	+	+		
Single Grave	+	+	+	Spelt	
Bell Beaker	+	+		+	

Table 10.I Sex of the individual buried tabulated against the side on which they were lying. Vikletice cemetery.

		Sex	
		M	F
Side lying	RHS	6	- 6
	LHS	6	7 13
		12	7 19

Table 10.II Sex of the individual buried tabulated against the side on which they were lying. Bohemian Corded Ware graves excluding Vikletice cemetery.

		Sex	
		M	F
Side lying	RHS	6	- 6
	LHS	2	3 5
		8	3 11

Table 1. List of the individuals tested and their side

on which they were lying. (Statistical summary)

Sex			
Side	Lying	No.	%
Left	Right	1	100
	Left	0	0
Right	Right	0	0
	Left	0	0

Table 2. List of the individuals tested and their side

on which they were lying. (Statistical summary)

Sex			
Side	Lying	No.	%
Left	Right	1	100
	Left	0	0
Right	Right	0	0
	Left	0	0

Table 10.III Presence of particular grave goods tabulated against
the side on which the associated skeleton was lying.
Figures refer to numbers of graves in which the objects
occur.

Object type	<u>Side lying</u>		Total
	RHS	LHS	
Decorated beaker	17	8	25
Decorated lugged beaker	6	1	7
Flat axe	32	2	34
Hammer axe	12	1	13
Mace	5	0	5
Coarse jar	0	4	4
Cylindrical vessel	3	9	12
'Topf'	4	21	25
Small handled 'Topf'	0	7	7
Perforated teeth	0	10	10
Perforated shell	1	11	12

Table 10.IV Contents of the graves at each end of the axes produced by principal coordinates analysis on the graves from Vikletice.

i) Axis 1

Loading on axis	Side lying of skeleton (if known)	Grave contents
-0.94	-	No goods
-0.94	RHS	"
-0.94	-	"
-0.94	-	"
-0.94	-	"
-0.94	-	"
-0.94	LHS	"
0.23	RHS	Beaker, undecorated amphora.
0.24	RHS	Beaker, undecorated amphora, blade, bowl, grindstone.
0.24	LHS	Beaker, undecorated amphora, Topf.
0.26	RHS	Beaker, undecorated amphora blade, flat axe, grindstone.
0.26	RHS	Beaker, undecorated amphora, blade, flat axe, hammer axe.
0.27	-	Beaker, undecorated amphora, blade, mace.
0.31	RHS	Beaker, undecorated amphora, blade, flat axe.
0.31	RHS	Beaker, undecorated amphora, blade, flat axe.
0.32	-	Beaker, undecorated amphora, blade.

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Table 10.IV (continued)

ii) Axis 2

Loading on axis	Side lying of skeleton (if known)	Grave contents
-0.54	-	Undecorated amphora, Topf, lugged beaker.
-0.54	LHS	Undecorated amphora, Topf, lugged beaker.
-0.52	LHS	2 Töpfe, 2 undecorated amphorae, small Topf.
-0.46	LHS	Undecorated amphora, undecorated jug, Topf.
-0.41	-	Undecorated amphora, lugged beaker, Topf, cylindrical vessel.
-0.38	LHS	Undecorated amphora, decorated amphora, Topf, jug/Topf.
-0.36	-	Undecorated amphora, Topf, lugged beaker, lugged Topf, flint point.
-0.35	?LHS	Undecorated amphora, Topf, basin, cylindrical vessel, polypod bowl.
-0.30	-	Undecorated amphora.
-0.30	LHS	Undecorated jug, jug/Topf, Topf.
0.30	-	Beaker, decorated amphora, blade.
0.30	RHS	Decorated amphora, blade, bone awl.
0.32	-	Decorated jug, Beaker, flat axe, hammer-axe, grindstone.
0.32	RHS	Cordoned amphora, decorated jug, flat axe, blade.
0.33	-	Beaker, Blade, mace, flat axe, sherd.
0.34	RHS	Flat axe, blade, flake, sherds.
0.40	RHS	Undecorated amphora, Beaker, flat axe, blade, grindstone.
0.40	RHS	Undecorated amphora, Beaker, hammer axe, flat axe, blade.
0.43	RHS	Undecorated amphora, Beaker, flat axe, blade.
0.43	RHS	Undecorated amphora, Beaker, flat axe, blade.

Location on site	Site type or elevation (ft)	Notes
0.1	-	Excavated trench, 10 ft, 10 ft, 10 ft.
0.2	-	Excavated trench, 10 ft, 10 ft, 10 ft.
0.3	-	Excavated trench, 10 ft, 10 ft, 10 ft.
0.4	-	Excavated trench, 10 ft, 10 ft, 10 ft.
0.5	-	Excavated trench, 10 ft, 10 ft, 10 ft.
0.6	-	Excavated trench, 10 ft, 10 ft, 10 ft.
0.7	-	Excavated trench, 10 ft, 10 ft, 10 ft.
0.8	-	Excavated trench, 10 ft, 10 ft, 10 ft.
0.9	-	Excavated trench, 10 ft, 10 ft, 10 ft.
1.0	-	Excavated trench, 10 ft, 10 ft, 10 ft.
1.1	-	Excavated trench, 10 ft, 10 ft, 10 ft.
1.2	-	Excavated trench, 10 ft, 10 ft, 10 ft.
1.3	-	Excavated trench, 10 ft, 10 ft, 10 ft.
1.4	-	Excavated trench, 10 ft, 10 ft, 10 ft.
1.5	-	Excavated trench, 10 ft, 10 ft, 10 ft.
1.6	-	Excavated trench, 10 ft, 10 ft, 10 ft.
1.7	-	Excavated trench, 10 ft, 10 ft, 10 ft.
1.8	-	Excavated trench, 10 ft, 10 ft, 10 ft.
1.9	-	Excavated trench, 10 ft, 10 ft, 10 ft.
2.0	-	Excavated trench, 10 ft, 10 ft, 10 ft.
2.1	-	Excavated trench, 10 ft, 10 ft, 10 ft.
2.2	-	Excavated trench, 10 ft, 10 ft, 10 ft.
2.3	-	Excavated trench, 10 ft, 10 ft, 10 ft.
2.4	-	Excavated trench, 10 ft, 10 ft, 10 ft.
2.5	-	Excavated trench, 10 ft, 10 ft, 10 ft.
2.6	-	Excavated trench, 10 ft, 10 ft, 10 ft.
2.7	-	Excavated trench, 10 ft, 10 ft, 10 ft.
2.8	-	Excavated trench, 10 ft, 10 ft, 10 ft.
2.9	-	Excavated trench, 10 ft, 10 ft, 10 ft.
3.0	-	Excavated trench, 10 ft, 10 ft, 10 ft.

Table 10.IV (continued)

ii) Axis 2 (continued)

Location on axis	Side lying of skeleton (if known)	Grave contents
0.51	-	Beaker, blade, hammer-axe, mace, flat axe.
0.51	-	Decorated amphora, beaker, blade.
0.51	-	Decorated amphora, beaker, blade.

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Page 25. 26. 27.	Page 28. 29. 30.	Page 31. 32. 33.
Page 34. 35. 36.	Page 37. 38. 39.	Page 40. 41. 42.
Page 43. 44. 45.	Page 46. 47. 48.	Page 49. 50. 51.
Page 52. 53. 54.	Page 55. 56. 57.	Page 58. 59. 60.

Table 10.IV (continued)

iii) Axis 3

Loading on axis	Side lying of skeleton (if known)	Grave contents
-0.40	-	Decorated amphora, decorated jug, Topf.
-0.39	LHS	Decorated amphora, Topf, cylindrical vessel.
-0.38	-	Cordoned amphora, decorated jug, Topf, jug/Topf, cylindrical vessel, blade, copper.
-0.38	-	Decorated amphora.
-0.38	-	Decorated amphora.
-0.35	LHS	Cordoned amphora, Topf, blade.
-0.35	-	Cordoned amphora, undecorated lugged beaker, jug/Topf.
-0.34	LHS	Cordoned amphora, Topf, basin, small Topf, blade.
-0.33	?LHS	Decorated amphora, decorated lugged beaker.
-0.31	RHS	Decorated amphora, blade, awl.
-0.30	Double grave	Decorated amphora, undecorated lugged beaker, blade.
-0.29	LHS	Cordoned amphora, amphora/Topf, decorated jug, Topf, amphora, flake, point.
-0.29	LHS	Topf, undecorated jug, jug/Topf.
0.30	-	Undecorated amphora, beaker, bowl.
0.32	-	Undecorated amphora, beaker, blade, mace.
0.33	RHS	Undecorated amphora, beaker, flat axe, blade, grindstone.
0.33	RHS	Undecorated amphora, beaker, hammer axe, flat axe, blade.
0.38	-	Undecorated amphora.
0.39	-	Undecorated amphora, beaker, blade.
0.40	RHS	Undecorated amphora, beaker, flat axe, blade.
0.40	RHS	Undecorated amphora, beaker, flat axe, blade.
0.42	-	Undecorated amphora, bowl.

(in \$)

Location or use	Life span in years	Cost estimate
Unimproved land, residential	-	0.00
Unimproved land, commercial	-	0.00
Unimproved land, industrial	-	0.00
Unimproved land, agricultural	-	0.00
Unimproved land, forest	-	0.00
Unimproved land, pasture	-	0.00
Unimproved land, other	-	0.00
Unimproved land, total	-	0.00
Improved land, residential	-	0.00
Improved land, commercial	-	0.00
Improved land, industrial	-	0.00
Improved land, agricultural	-	0.00
Improved land, forest	-	0.00
Improved land, pasture	-	0.00
Improved land, other	-	0.00
Improved land, total	-	0.00
Unimproved land, residential	-	0.00
Unimproved land, commercial	-	0.00
Unimproved land, industrial	-	0.00
Unimproved land, agricultural	-	0.00
Unimproved land, forest	-	0.00
Unimproved land, pasture	-	0.00
Unimproved land, other	-	0.00
Unimproved land, total	-	0.00
Improved land, residential	-	0.00
Improved land, commercial	-	0.00
Improved land, industrial	-	0.00
Improved land, agricultural	-	0.00
Improved land, forest	-	0.00
Improved land, pasture	-	0.00
Improved land, other	-	0.00
Improved land, total	-	0.00
Unimproved land, residential	-	0.00
Unimproved land, commercial	-	0.00
Unimproved land, industrial	-	0.00
Unimproved land, agricultural	-	0.00
Unimproved land, forest	-	0.00
Unimproved land, pasture	-	0.00
Unimproved land, other	-	0.00
Unimproved land, total	-	0.00
Improved land, residential	-	0.00
Improved land, commercial	-	0.00
Improved land, industrial	-	0.00
Improved land, agricultural	-	0.00
Improved land, forest	-	0.00
Improved land, pasture	-	0.00
Improved land, other	-	0.00
Improved land, total	-	0.00

Table 10.IV (continued)

iii) Axis 3 (continued)

Loading on axis	Side lying of skeleton (if known)	Grave contents
0.42	LHS	Undecorated amphora, bowl.
0.46	RHS	Undecorated amphora, bowl, beaker, flat axe.
0.48	?RHS	Undecorated amphora, beaker.

Table 10.1. (continued)

Table 10.2. (continued)

Location in water	Size of fish in	Number of fish
0.5 m	0.5 m	10
0.5 m	0.5 m	10
0.5 m	0.5 m	10
0.5 m	0.5 m	10

Table 10.IV (continued)

iv) Axis 4

Loading on axis	Side lying of skeleton (if known)	Grave contents
-0.64	-	Decorated amphora.
-0.64	-	Decorated amphora.
-0.56	?LHS	Decorated amphora, lugged beaker.
-0.55	-	Undecorated amphora, decorated amphora.
-0.31	-	Undecorated amphora, bowl.
-0.31	LHS	Decorated amphora, cylindrical vessel, decorated lugged beaker, bowl, blade.
-0.31	LHS	Undecorated amphora, bowl.
-0.28	?LHS	Decorated amphora, cordoned amphora, beaker, undecorated jug, decorated lugged beaker.
-0.27	-	Decorated amphora, beaker, blade.
-0.27	RHS	Decorated amphora, beaker, blade.
-0.26	-	Undecorated amphora, beaker, bowl.
0.25	-	Decorated amphora, beaker,
0.27	-	Cordoned amphora, decorated jug, Topf, jug/Topf, cylindrical vessel, blade, copper.
0.27	RHS	Cordoned amphora, decorated jug, flat axe, blade.
0.27	LHS	Topf, small handled Topf, undecorated amphora, blade.
0.28	LHS	Undecorated amphora, Topf, small handled Topf, blade, flake.
0.29	Double grave	Undecorated amphora, cordoned amphora, Topf, beaker, undecorated lugged beaker, flat axe, hammer axe, blade

Table 10.IV (continued)

iv) Axis 4 (continued)

Loading on axis	Side lying of skeleton (if known)	Grave contents
0.31	LHS	Cordoned amphora, Topf, basin, small handled Topf, blade.
0.35	LHS	Cordoned amphora, Topf, blade, stone disc.
0.36	-	Cordoned amphora, undecorated lugged beaker, Topf, jug/Topf, blade.

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Table 10.IV (continued)

v) Axis 5

Loading on axis	Side lying of skeleton (if known)	Grave contents
-0.39	-	Decorated lugged beaker, flat axe, flake.
-0.39	-	Decorated lugged beaker, flat axe, mace, blade, sherds.
-0.39	-	Decorated lugged beaker, undecorated amphora, Topf, cylindrical vessel.
-0.32	LHS	Cordoned amphora, point, dog teeth, bone bead, sherds.
-0.32	RHS	Flat axe, blade, sherds, flake.
-0.27	LHS	Sherds.
-0.27	RHS	Undecorated amphora, decorated lugged beaker, hammer axe.
-0.27	LHS	Cordoned amphora, undecorated lugged beaker, bowl.
-0.26	-	Decorated lugged beaker, undecorated jug.
-0.26	-	Undecorated amphora, bowl.
-0.26	LHS	Undecorated amphora, bowl.
-0.25	RHS	Cordoned amphora, decorated jug, flat axe, blade.
-0.25	LHS	Cordoned amphora, decorated shell.
-0.25	RHS	Undecorated amphora, lugged beaker, blade.
0.25	-	Beaker.
0.26	LHS	Amphora, bone.
0.27	LHS	Decorated amphora, basin, Topf.
0.27	Double grave	Decorated amphora, beaker, cordoned amphora, Topf, hammer axe.
0.31	LHS	Undecorated amphora, decorated amphora, Topf, jug/Topf.
0.36	RHS	Decorated amphora, beaker, blade.
0.36	-	Cordoned amphora, beaker, blade.
0.38	LHS	Undecorated amphora, beaker, Topf.

Table 10.V List of graves and their contents in the clusters produced by monothetic subdivisive cluster analysis: Cluster numbering corresponds to that in the dendrogram (fig. 10.3), reading from left to right.

Cluster 1

<u>Grave No.</u>	<u>Contents</u>
21	Undecorated amphora, undecorated jug, decorated lugged beaker, mace head, flat axe, blade.
48	Undecorated amphora, undecorated jug, decorated lugged beaker, flat axe, blade, spindle whorl.
104	Undecorated amphora, jug, undecorated lugged beaker, flat axe, blade.

Cluster 9

<u>Grave No.</u>	<u>Contents</u>
47	Undecorated amphora, decorated jug, decorated lugged beaker, flat axe, blade.
75	Undecorated amphora, undecorated lugged beaker, hammer axe, blade.
76	Undecorated amphora, beaker, flat axe, blade.
88	Undecorated amphora, decorated jug, decorated lugged beaker, hammer axe, flat axe, blade.

Cluster 5

<u>Grave No.</u>	<u>Contents</u>
10	Decorated jug, decorated lugged beaker, cylindrical vessel, 2 flat axes, blade.
83	Amphora, decorated jug, sherd, flat axe, blade.

Cluster 13

<u>Grave No.</u>	<u>Contents</u>
7	4 flat axes, bone disc, blade.
8	Flat axe, blade.
23	Cordoned amphora, 2 flat axes, blade.
45	Amphora sherds, beaker, undecorated lugged beaker, flat axe, blade.
78	Lugged beaker, flat axe, blade.
103	Cordoned amphora, beaker, mace head, flat axe, blade.

List of names and their addresses in the ...
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Table 10.V (continued)

Cluster 3

<u>Grave No.</u>	<u>Contents</u>
43	Cordoned amphora, beaker, hammer axe, flat axe.
66	Cordoned amphora, beaker, undecorated lugged beaker, hammer axe, flat axe, grindstone.
92	Cordoned amphora, beaker, flat axe.

Cluster 11

<u>Grave No.</u>	<u>Contents</u>
11	Beaker sherds, hammer axe, flat axe.
28	Amphora sherds, beaker, 2 ribbed jugs, hammer axe, flat axe.

Cluster 7

<u>Grave No.</u>	<u>Contents</u>
13	Sherds, hammer axe, flat axe.
86	Amphora sherds, cylindrical vessel, sherds, flat axe.

Cluster 15

<u>Grave No.</u>	<u>Contents</u>
6	2 flat axes, bone chisel.
24	Undecorated jug, 2 flat axes.
29	Cordoned amphora, undecorated jug, hammer axe, flat axe.

Cluster 2

<u>Grave No.</u>	<u>Contents</u>
99	2 undecorated jugs, Topf, decorated shell, copper, blade.
105	Cordoned amphora, 2 small lugged amphorae, undecorated amphora decorated jug, 2 undecorated jugs, 2 Töpfe, cylindrical vessel, small Topf, decorated shell, copper, blade.

Cluster 10

<u>Grave No.</u>	<u>Contents</u>
35	Undecorated amphora, decorated amphora, undecorated jug, Topf, blade.
39	Cordoned amphora, undecorated jug, Topf, undecorated handled beaker, small handled Topf, clay disc, blade.

Table 10.9 (continued)

Section 1

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Section 2

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Section 4

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Section 5

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Section 6

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Table 10.V (continued)

Cluster 10 (continued)

<u>Grave No.</u>	<u>Contents</u>
40	Undecorated amphora, Topf, small handled Topf, grindstone, blade.
44	Incised amphora, Topf, cylindrical vessel, blade.
46	Undecorated amphora, Topf, lugged beaker sherd, sherd, blade.
70	Undecorated amphora, 2 undecorated jugs, Topf, blade.
84	Undecorated amphora, Topf, sherd, blade.

Cluster 6

<u>Grave No.</u>	<u>Contents</u>
17	Sherds, blade.
36	Sherds, blade, animal bones.
56	Sherds, blade, mace head.
59	Sherd, blade.
77	Cordoned amphora, sherd, blade.
98	Cordoned amphora, beaker sherds, sherd, hammer axe, blade.
102	Undecorated jug, small Topf, sherd, blade.

Cluster 14

<u>Grave No.</u>	<u>Contents</u>
1	Undecorated amphora, blade.
3	Decorated jug, lugged bowl, 2 basins, grindstone, bone point, blade.
9	Jug, hammer axe, blade.
19	Undecorated amphora, undecorated jug, perforated tooth, copper, blade.
25	Beaker sherd, perforated shell disc, perforated tooth, blade.
27	Undecorated amphora, 2 undecorated jugs, cylindrical vessel, blade, animal bones.
38	Perforated shell disc, perforated tooth, blade.
49	Bone pin, blade.

Table 1. (continued)

Table 2. (continued)

Table 3.

1	Unidentified species, small, white, round, smooth, glass.
2	Unidentified species, small, white, round, smooth, glass.
3	Unidentified species, small, white, round, smooth, glass.
4	Unidentified species, small, white, round, smooth, glass.
5	Unidentified species, small, white, round, smooth, glass.
6	Unidentified species, small, white, round, smooth, glass.

Table 4.

1	Unidentified species, small, white, round, smooth, glass.
2	Unidentified species, small, white, round, smooth, glass.
3	Unidentified species, small, white, round, smooth, glass.
4	Unidentified species, small, white, round, smooth, glass.
5	Unidentified species, small, white, round, smooth, glass.
6	Unidentified species, small, white, round, smooth, glass.
7	Unidentified species, small, white, round, smooth, glass.
8	Unidentified species, small, white, round, smooth, glass.
9	Unidentified species, small, white, round, smooth, glass.
10	Unidentified species, small, white, round, smooth, glass.

Table 5.

1	Unidentified species, small, white, round, smooth, glass.
2	Unidentified species, small, white, round, smooth, glass.
3	Unidentified species, small, white, round, smooth, glass.
4	Unidentified species, small, white, round, smooth, glass.
5	Unidentified species, small, white, round, smooth, glass.
6	Unidentified species, small, white, round, smooth, glass.
7	Unidentified species, small, white, round, smooth, glass.
8	Unidentified species, small, white, round, smooth, glass.
9	Unidentified species, small, white, round, smooth, glass.
10	Unidentified species, small, white, round, smooth, glass.

Table 10.V (continued)

Cluster 14 (continued)

<u>Grave No.</u>	<u>Contents</u>
50	Perforated tooth, blade.
55	Undecorated jug, hammer axe, blade, animal bones.
57	Decorated amphora, beaker, mortar, decorated shell, blade.
63	Cylindrical vessel, perforated shell, perforated tooth, blade.
67	Incised amphora, undecorated amphora, amphora, 3 jugs, perforated shell, perforated tooth, copper, blade.
68	2 cordoned amphorae, 2 beakers, hammer axe, blade.
80	Amphora, undecorated handled beaker, blade.
89	Amphora sherds, beaker sherds, decorated shell, perforated shell, blade.
90	Amphora sherds, beaker, copper, blade.
94	2 cordoned amphorae, decorated jug, blade.
95	Cordoned amphora, undecorated amphora, ribbed jug, blade.
96	Hammer axe, blade.
108	Blade.

Cluster 4

<u>Grave No.</u>	<u>Contents</u>
15	Cordoned amphora, beaker, hammer axe.
16	Cordoned amphora, beaker sherds, decorated jug.
79	Cordoned amphora, amphora, beaker, Topf, sherd.
97	Cordoned amphora, beaker sherds, Topf, copper.

Cluster 12

<u>Grave No.</u>	<u>Contents</u>
106	Beaker sherds, decorated shell.
2	Beaker, decorated jug.
4	Incised amphora, beaker.
12	Beaker sherds, ribbed jug, sherds, mace head.

Table 10.V (continued)

Cluster 12 (continued)

<u>Grave No.</u>	<u>Contents</u>
14	Beaker.
52	Undecorated amphora, beaker, hammer axe, mace head.
54	Incised amphora, beaker sherd, ribbed jug.
61	Beaker, lugged beaker, lugged bowl.
81	Beaker.
85	Beaker, jug.

Cluster 8

<u>Grave No.</u>	<u>Contents</u>
18	Cordoned amphora, undecorated amphora, topf, decorated lugged beaker, sherd.
20	Topf.
22	Undecorated amphora, undecorated jug, Topf, small lugged Topf, copper.
69	Undecorated amphora, decorated jug, Topf, animal bones.
73	Cordoned amphora, Topf, undecorated lugged beaker, decorated shell, perforated shell, perforated tooth.
74	Cordoned amphora, Topf, undecorated handled beaker, cylindrical vessel, 2 decorated shells.
101	Cordoned amphora, undecorated jug, Topf, cylindrical vessel, small lugged Topf, copper.

Cluster 16

<u>Grave No.</u>	<u>Contents</u>
5	Incised amphora, decorated lugged beaker.
26	Undecorated amphora.
30	Small lugged Topf.
31	Undecorated amphora.
32	Decorated lugged beaker.
33	Hammer axe.
34	Undecorated amphora, decorated lugged beaker.

Table 10.V (continued)

Cluster 16 (continued)

<u>Grave No.</u>	<u>Contents</u>
37	Incised amphora.
41	Undecorated amphora, cylindrical vessel.
42	Small lugged amphora, cylindrical vessel, polypod bowl.
51	Cordoned amphora, undecorated amphora, decorated lugged beaker.
53	Cylindrical vessel.
58	Undecorated jug, animal bones.
60	Undecorated amphora, perforated shell, perforated tooth.
62	Undecorated amphora.
64	Undecorated amphora, jug sherd, undecorated lugged beaker.
65	Cordoned amphora, undecorated lugged beaker, hammer axe.
71	Decorated jug, undecorated jug, sherds, mace head.
72	Cordoned amphora, decorated jug.
82	Lugged beaker, sherds.
87	Amphora sherds, cylindrical vessel, sherds, perforated shell, perforated tooth.
91	Amphora sherds.
93	Undecorated amphora.
100	Undecorated amphora.
107	Amphora sherds, perforated shell.

Table 10.VI List of goods values for Bohemian Corded Ware graves.

<u>Object</u>	<u>Points</u>
Undecorated amphora	7
Cordoned amphora	8
Incised amphora	8
Amphora	7
Beaker	8
Undecorated beaker	7
Decorated jug	8
Jug	7
Lugged bowl	7
Polypod bowl	8
Basin	6
Decorated lugged beaker	8
Undecorated lugged beaker	7
Cylindrical vessel	7
Topf	7
Sherds	2
Small lugged Topf	7
Undecorated handled beaker	7
Small handled Topf	7
Small lugged amphora	7
Blade	2
Grindstone	6
Bone point	4
Flat axe	8
Bone chisel	6
Bone disc	3
Hammer axe	10
Mace head	10
Perforated tooth	5
Copper	9
Perforated shell disc	7
Animal bones	7
Clay disc	3
Copper arm-ring	15
Arrowhead	4

Left

Right

1

Infected tooth

2

Infected tooth

3

Infected tooth

4

Infected tooth

5

Infected tooth

6

Infected tooth

7

Infected tooth

8

Infected tooth

9

Infected tooth

10

Infected tooth

11

Infected tooth

12

Infected tooth

13

Infected tooth

14

Infected tooth

15

Infected tooth

16

Infected tooth

17

Infected tooth

18

Infected tooth

19

Infected tooth

20

Infected tooth

21

Infected tooth

22

Infected tooth

23

Infected tooth

24

Infected tooth

25

Infected tooth

26

Infected tooth

27

Infected tooth

28

Infected tooth

29

Infected tooth

30

Infected tooth

31

Infected tooth

32

Infected tooth

33

Infected tooth

34

Infected tooth

Table 10.VI (continued)

<u>Object</u>	<u>Points</u>
Flake	2
Bone bead	2
Flint point	2
No goods	0
Bohrkern	5
Decorated shell	7
Bone pin	3
Spindle whorl	3
Shell necklace	9
Clay ball	4
Worked bone	2
Antler frags	4
Pot	6
Stone disc	7
Flint scraper	2

Table 1

Table 2

1

100%

2

100%

3

100%

4

100%

5

100%

6

100%

7

100%

8

100%

9

100%

10

100%

11

100%

12

100%

13

100%

14

100%

15

100%

16

100%

a) Moravia

Graves		Settlements	
Decorated Bell Beakers	17%	Decorated Bell Beakers	8%
Undecorated bowls	21%	Others	92%
Undecorated jugs	41%	Total number of sherds	c. 870
Others	21%		
Total number of vessels	2132		

b) Bohemia

Graves		Settlements (Kozly only)	
Decorated Bell Beakers	11%	Decorated Bell Beakers	7%
Undecorated jugs	42%	Others	93%
Undecorated bowls	23%	Total number of sherds	164
Others	24%		
Total number of vessels	1647		

Table 11.I Table showing decorated Bell Beakers as a proportion of the total number of vessels/sherds in grave and settlement contexts, a) Moravia b) Bohemia. Information from Tables 4.II and 4.XI.



FIGURES

Figure 1. Variation of the relative
of surface. (From Fig. 10000).

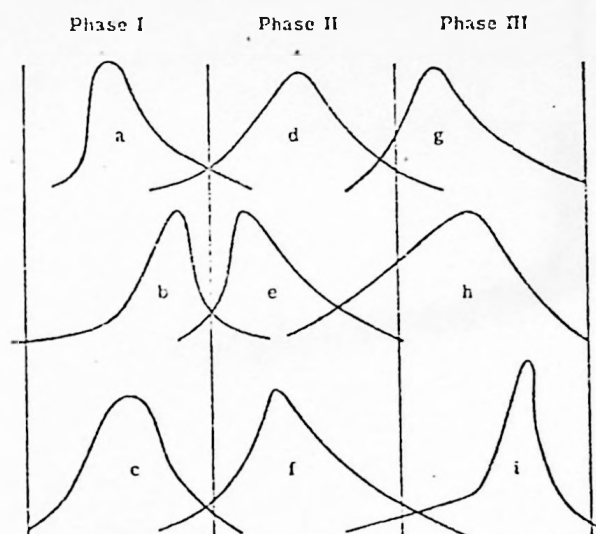
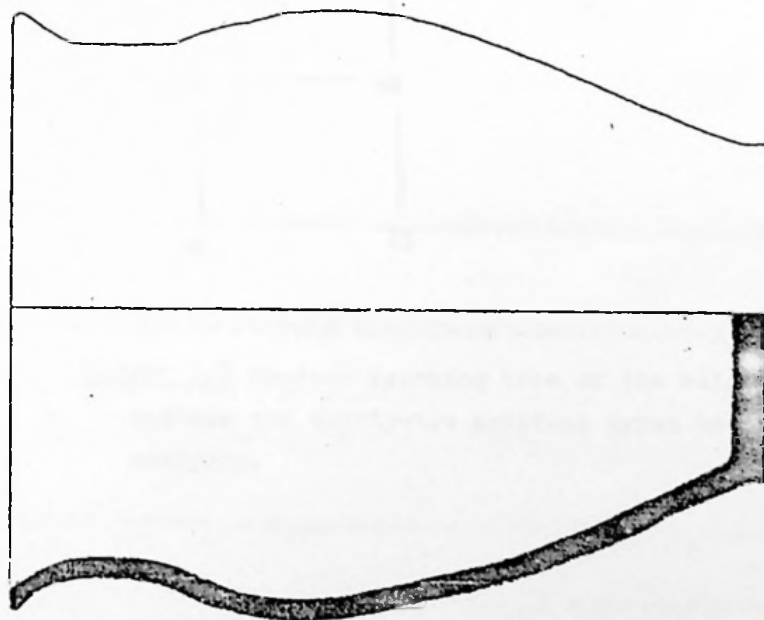
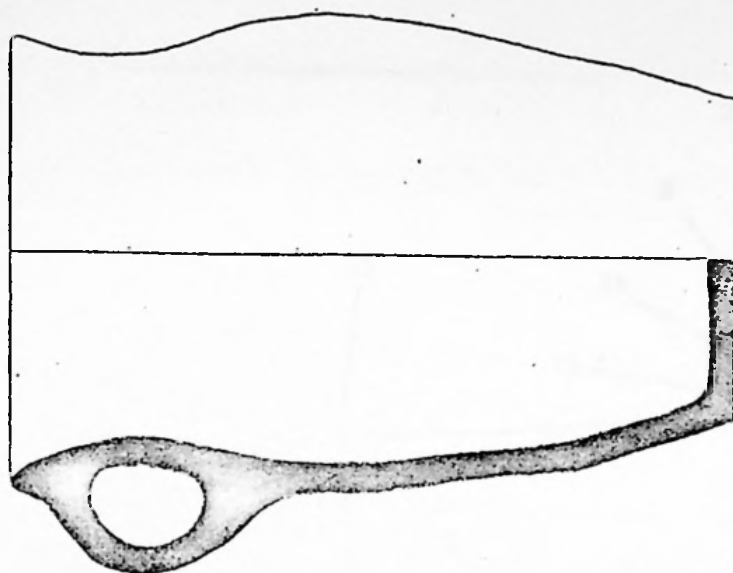


Figure 2.1 Phase definitions based on the relative abundance of artifacts. (From Plog 1974:45).



a)



b)

Figure 3.1 a) 'Topf', Všetaty, Bohemia; National Museum, Prague, Inv. No. 51437

b) Handled 'Topf', Jenštejn, Bohemia; National Museum, Prague,

Inv. No. 49703.



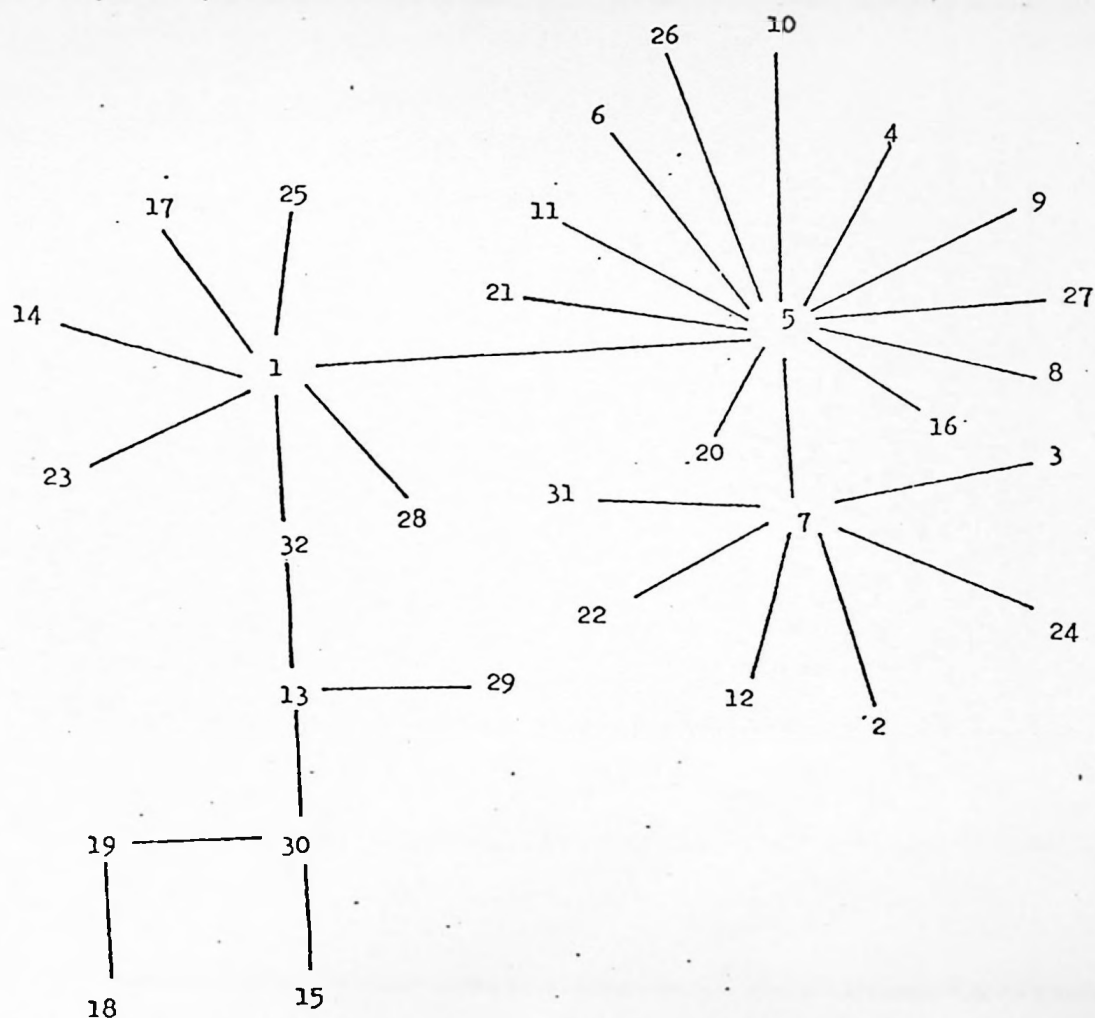


Figure 3.2 Minimum spanning tree of the relationships between the thirty-two artifact types used in the analysis.

Type

1. Decorated Bell Beaker
2. DecoratedHandled Bell Beaker
3. Undecorated Bell Beaker
4. UndecoratedHandled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polypod Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other Vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Urn
32. Whetstone

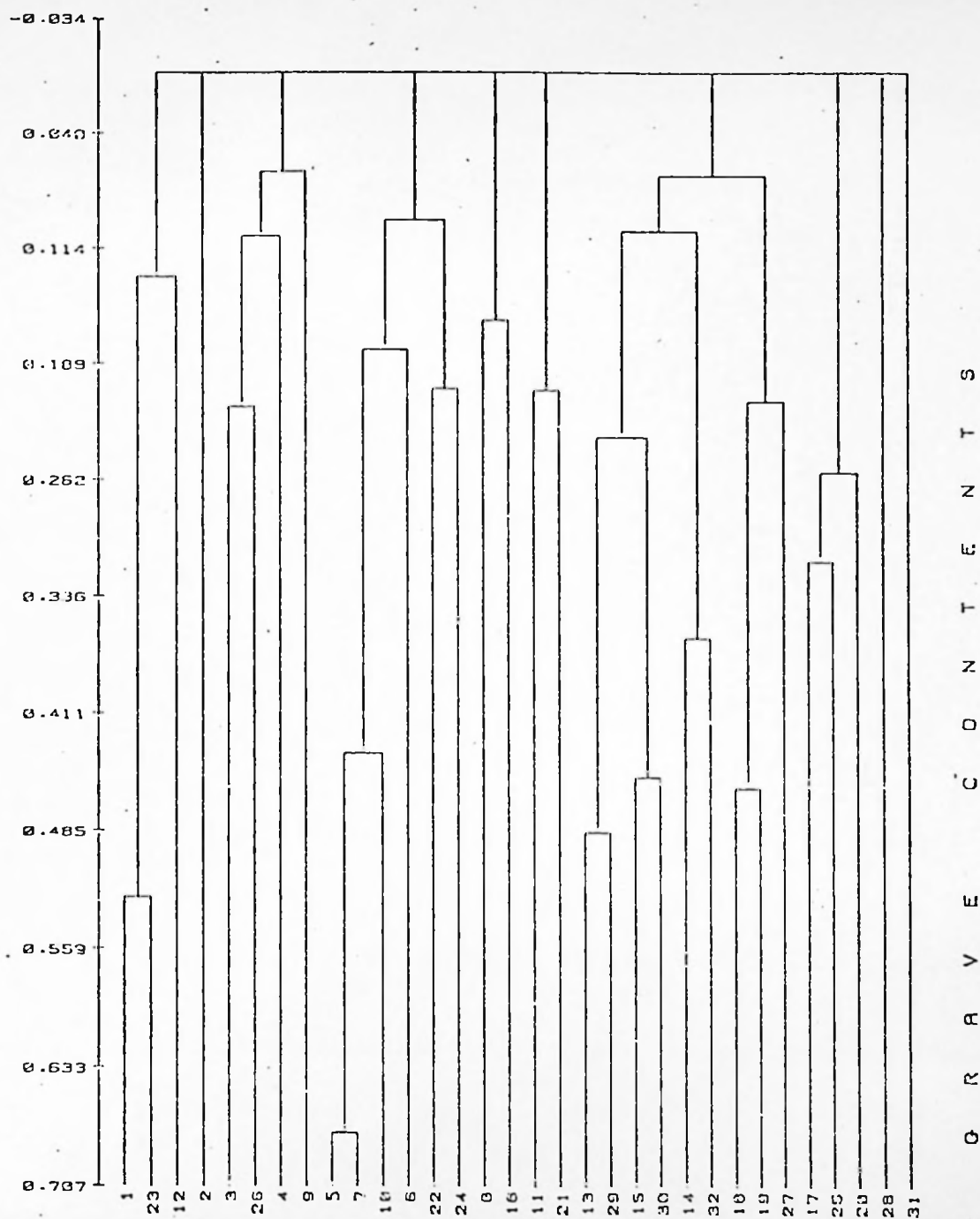


Figure 3.3 Double-link dendrogram of the relationships
between objects in all the graves used in the analysis.

Type

1. Decorated Bell Beaker
2. DecoratedHandled Bell Beaker
3. Undecorated Bell Beaker
4. UndecoratedHandled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polyped Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other Vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Bar-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Urn
32. Whetstone

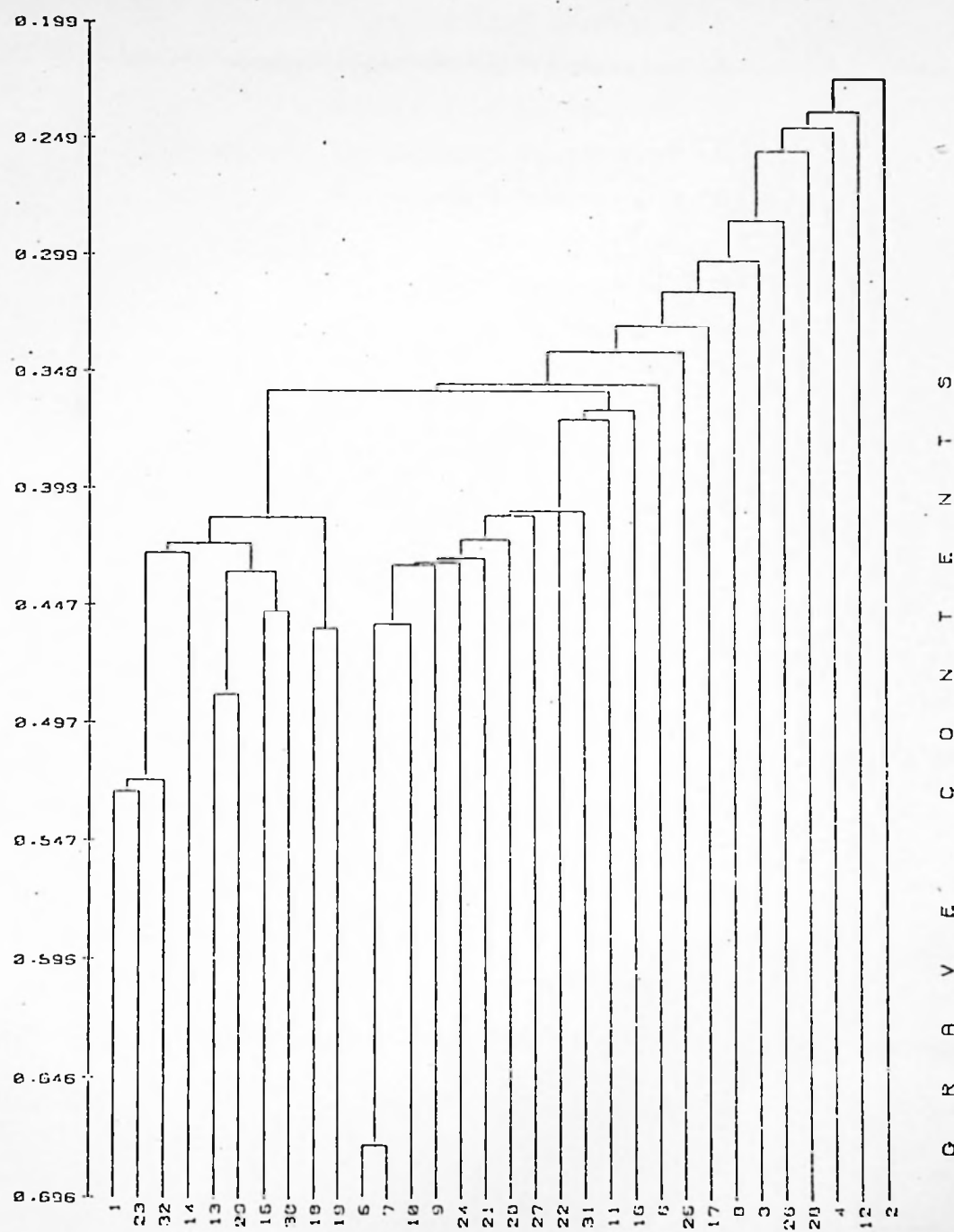


Figure 3.4 Single-link dendrogram of the relationships between objects in all the graves used in the analysis.

Type

1. Decorated Bell Beaker
2. DecoratedHandled Bell Beaker
3. Undecorated Bell Beaker
4. UndecoratedHandled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polypod Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other Vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Urn
32. Whetstone

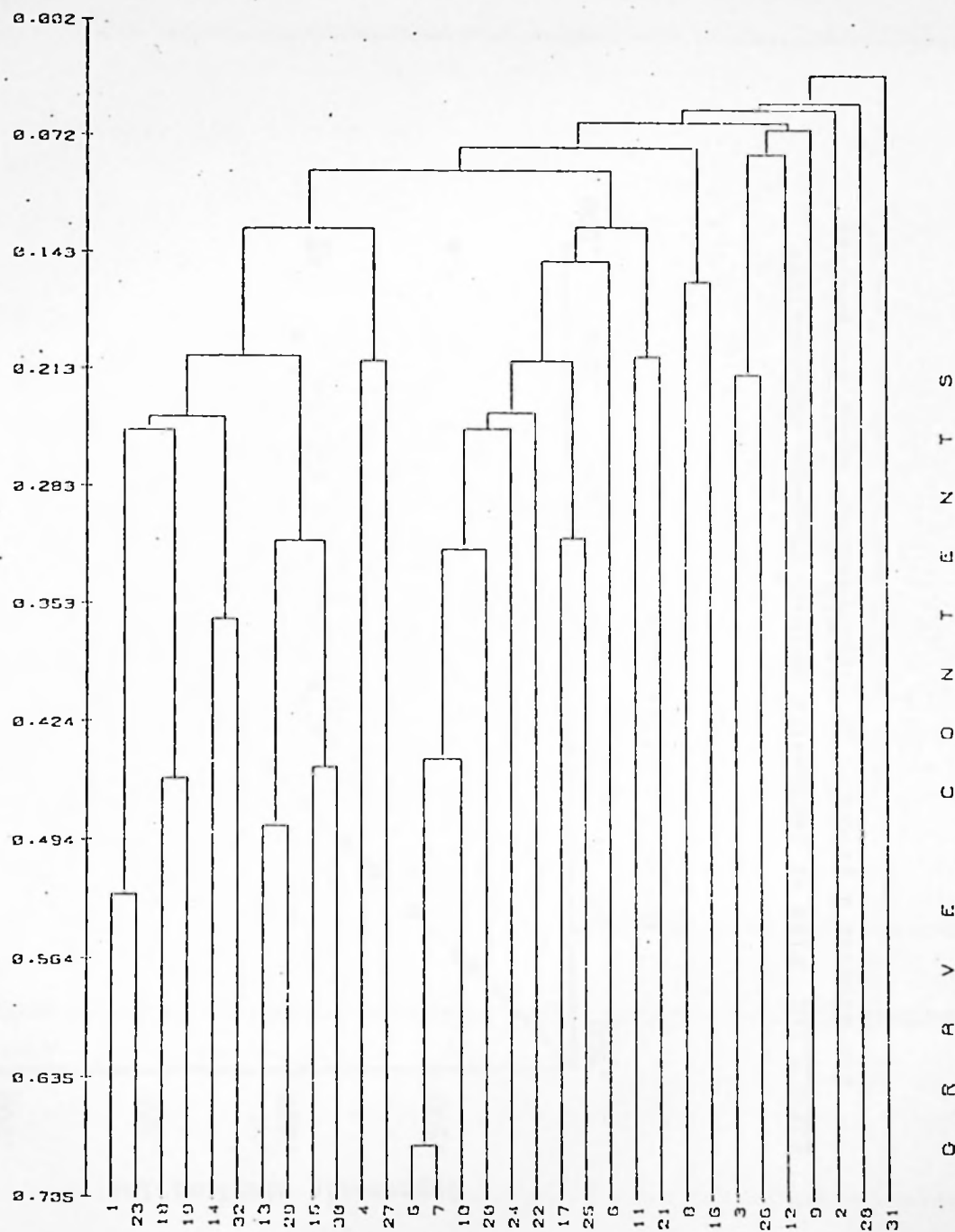


Figure 3.5 Average-link dendrogram of the relationships between objects in all the graves used in the analysis.



FIG. 1. A plan of the building shown in the photograph on the opposite page. The building is a simple rectangular structure with a flat roof. The drawing shows the layout of the building, including the walls, windows, and doors. The drawing is oriented vertically, with the top of the building at the top of the page. The drawing is a reproduction of a historical document, and the lines are thin and light.

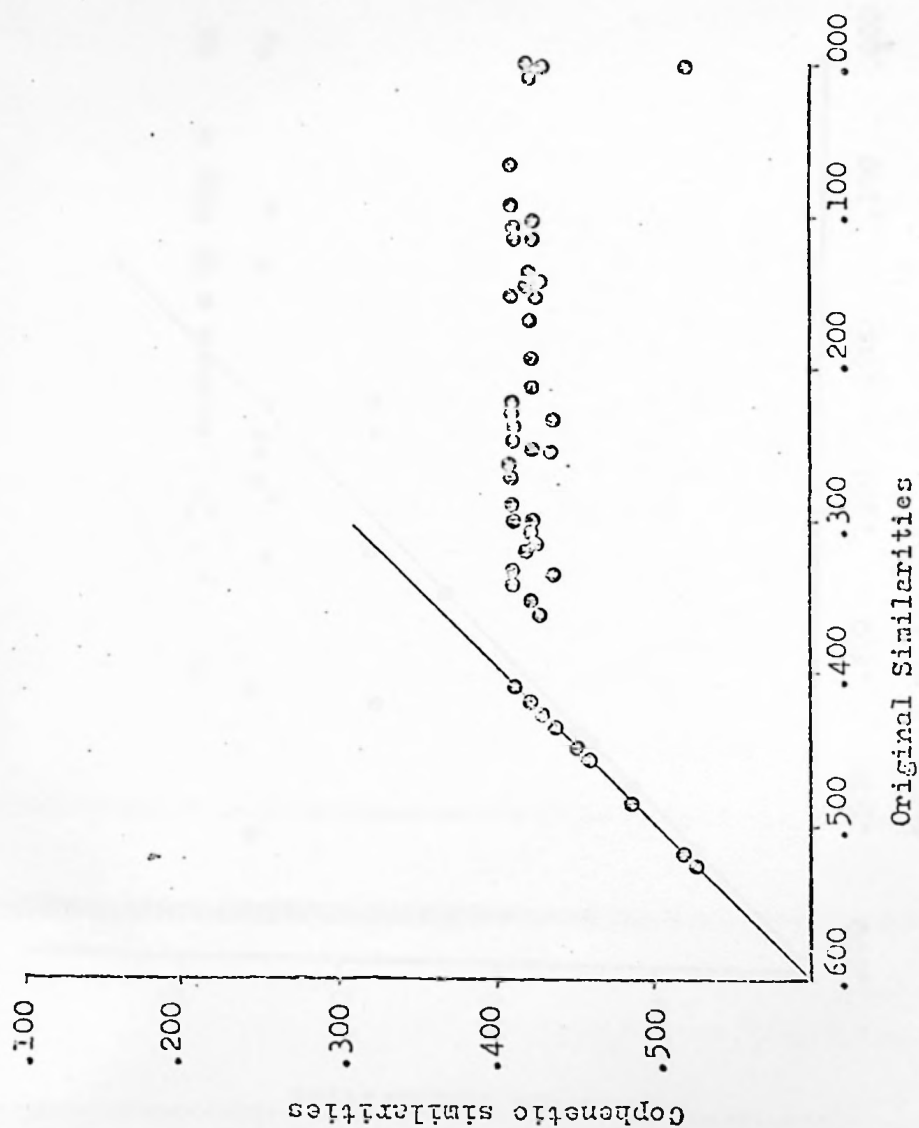


Figure 3.6 Plot of cophenetic against original similarities
for Cluster 1 produced by Single-linkage using all graves.

1. The first step in the process of determining the amount of material to be used in the construction of a building is to determine the amount of material required for the foundation. This is done by measuring the area of the foundation and multiplying it by the depth of the foundation.



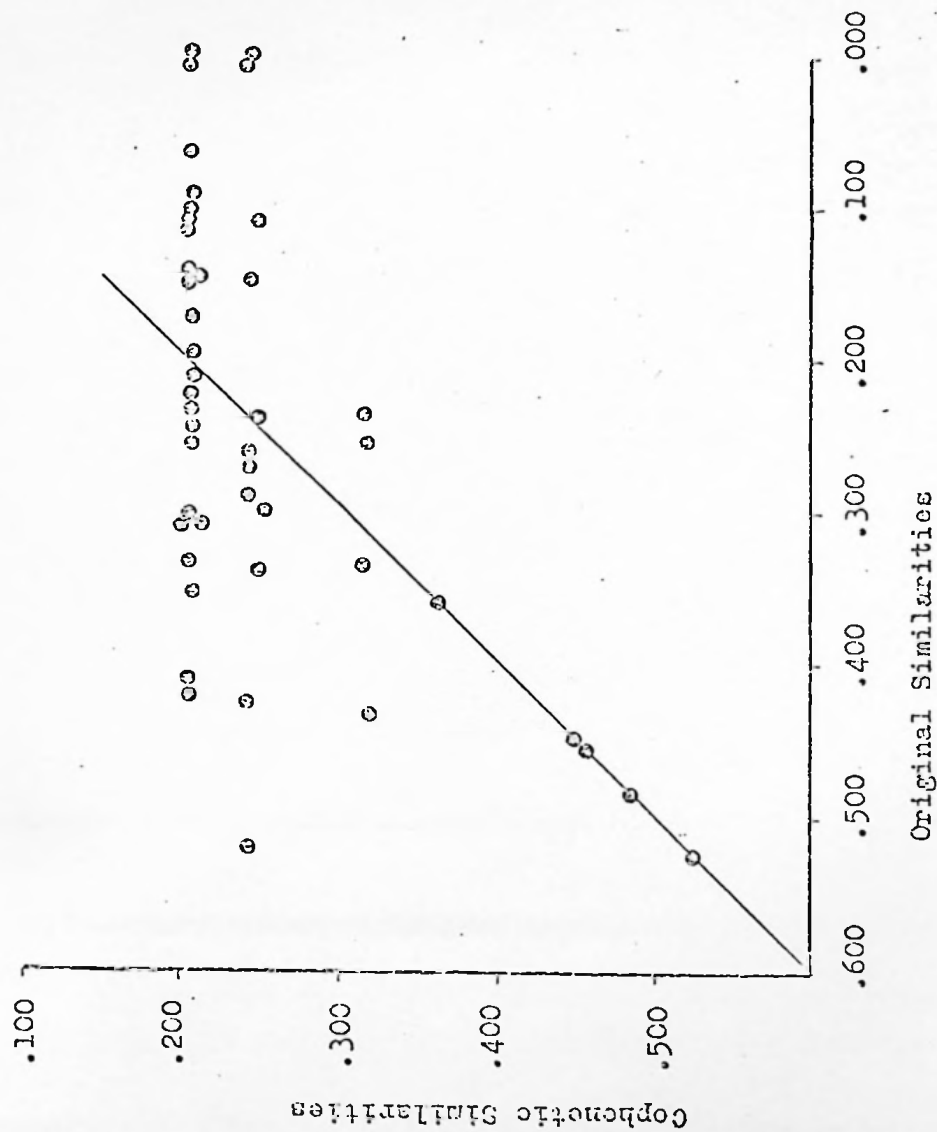


Figure 3.7 Plot of cophenetic against original similarities
for Cluster 1 produced by Average-linkage using all graves.

Type

1. Decorated Bell Beaker
2. DecoratedHandled Bell Beaker
3. Undecorated Bell Beaker
4. UndecoratedHandled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polypod Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other Vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Urn
32. Whetstone

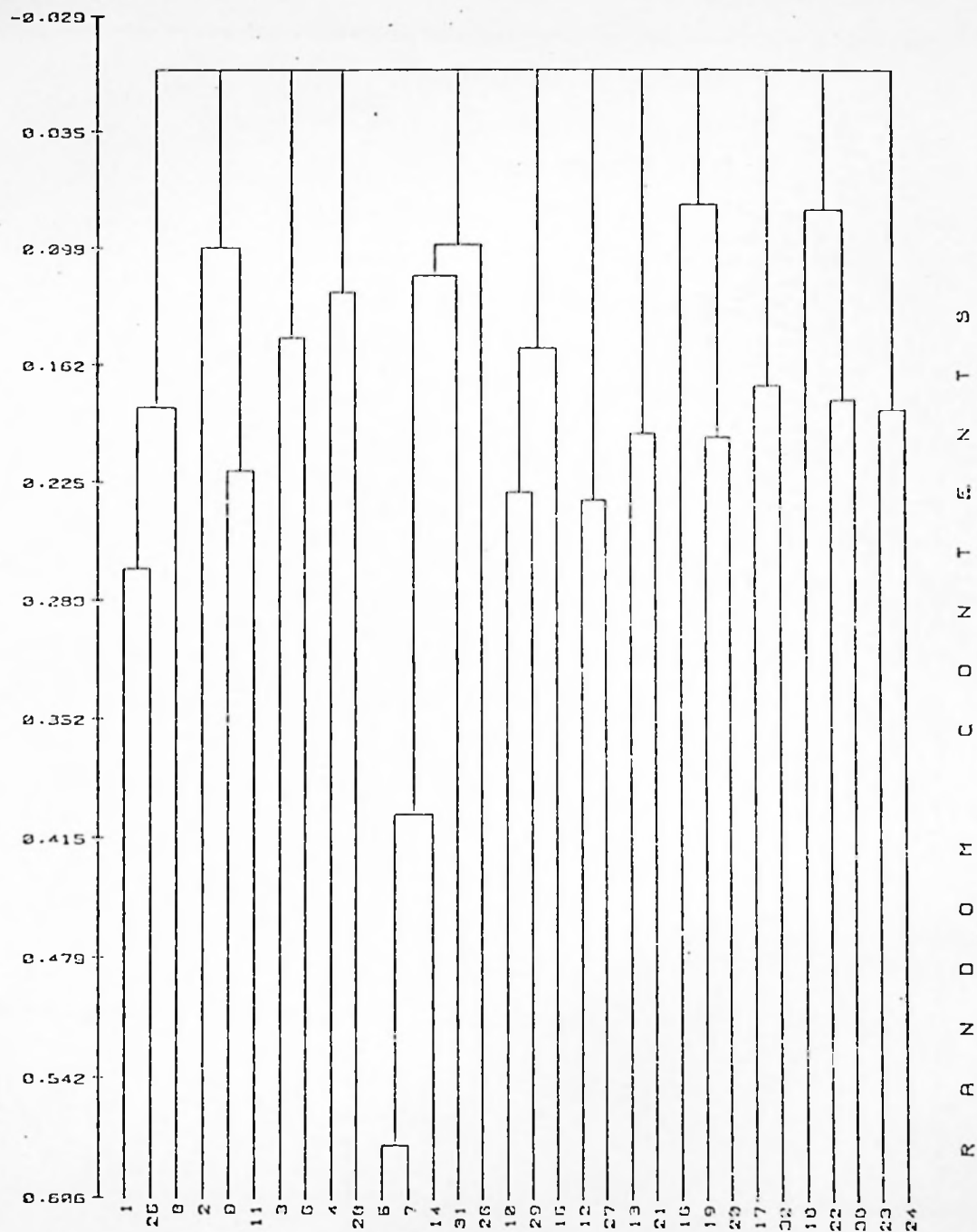


Figure 3.8 Double-link dendrogram of the relationships between objects in randomly generated data.

Type

1. Decorated Bell Beaker
2. DecoratedHandled Bell Beaker
3. Undecorated Bell Beaker
4. UndecoratedHandled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polypod Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other Vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Urn
32. Whetstone

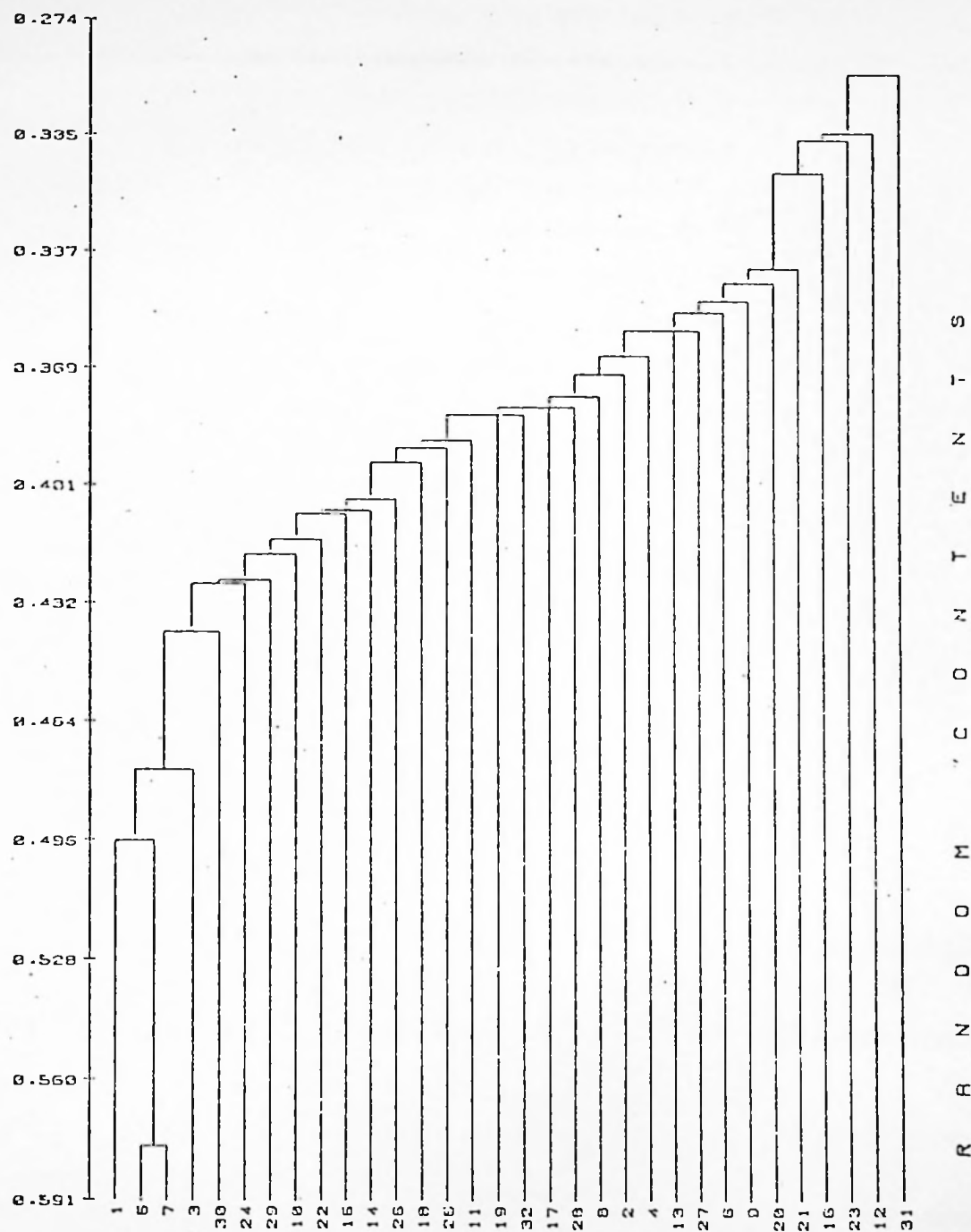


Figure 3.9 Single-link dendrogram of the relationships between objects in randomly generated data.

Type

1. Decorated Bell Beaker
2. DecoratedHandled Bell Beaker
3. Undecorated Bell Beaker
4. UndecoratedHandled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polypod Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other Vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Urn
32. Whetstone

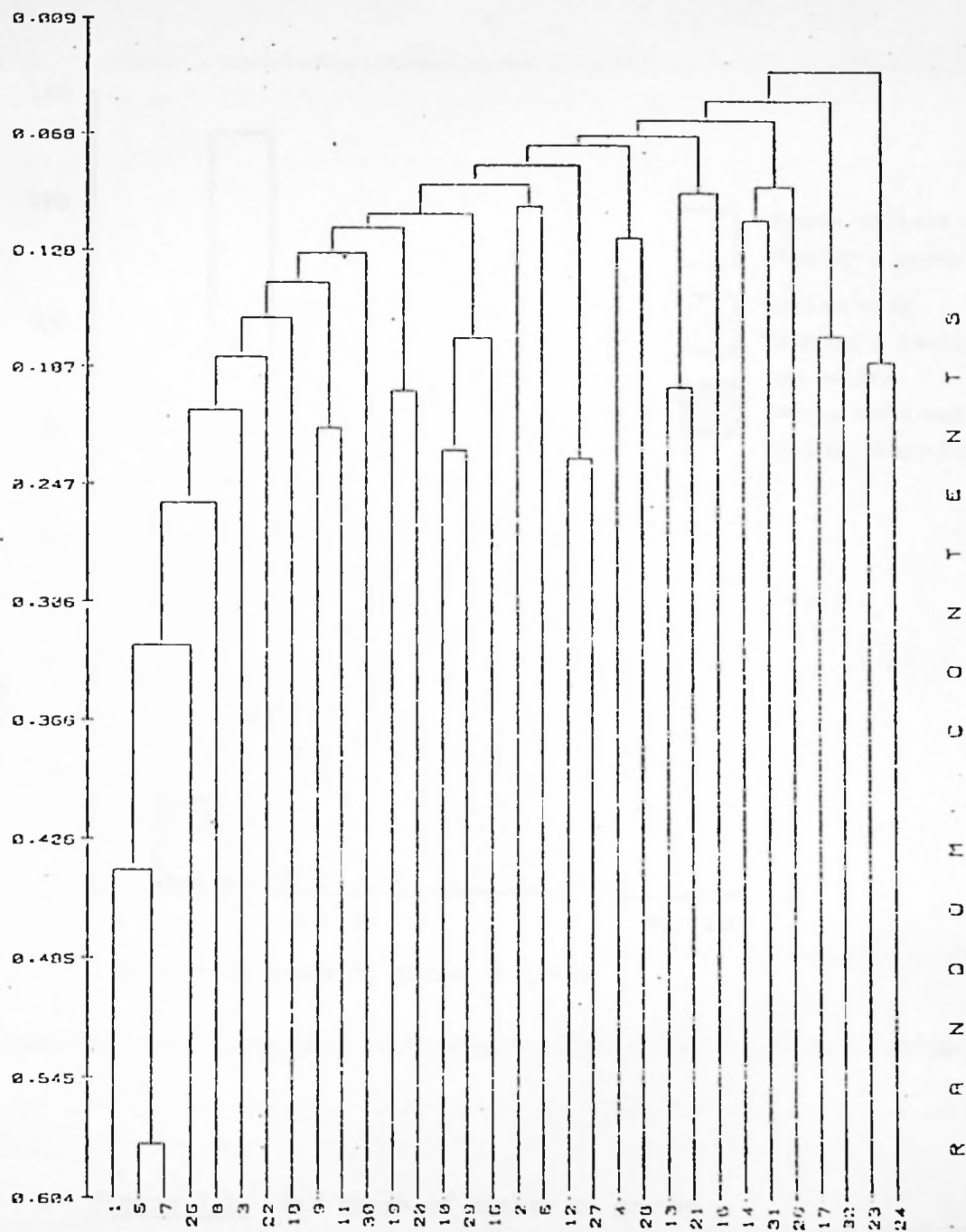


Figure 3.10 Average-link dendrogram of the relationships between objects in randomly generated data.

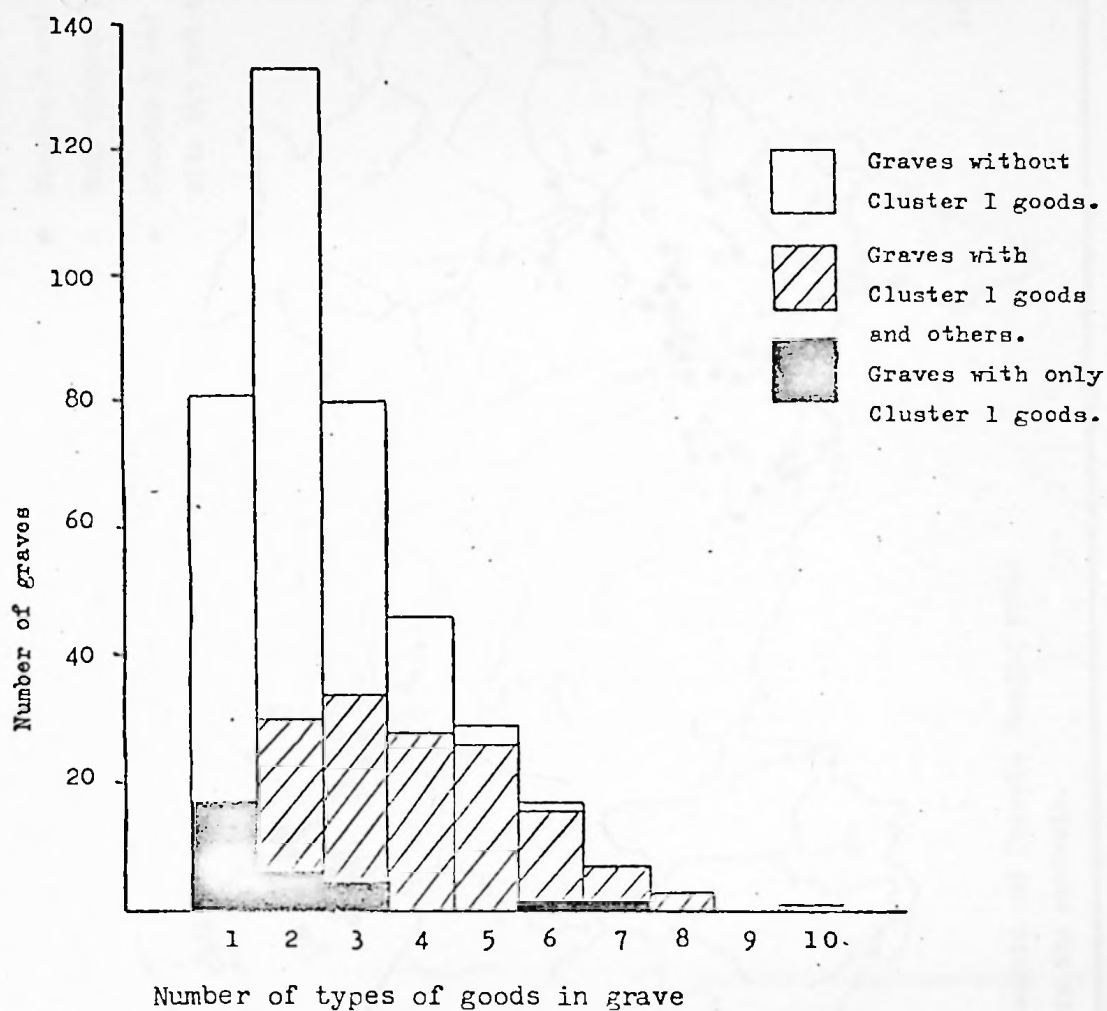


Figure 3.11 Bar graph of number of graves against number of different objects types in the grave. Graves with 'cluster 1' goods differentiated from the others (see key).

1. 100% of the
 2. 100% of the
 3. 100% of the
 4. 100% of the
 5. 100% of the



Number of Cases of ...

Figure 1. The number of cases of ...
 against ...
 in the ...
 ...

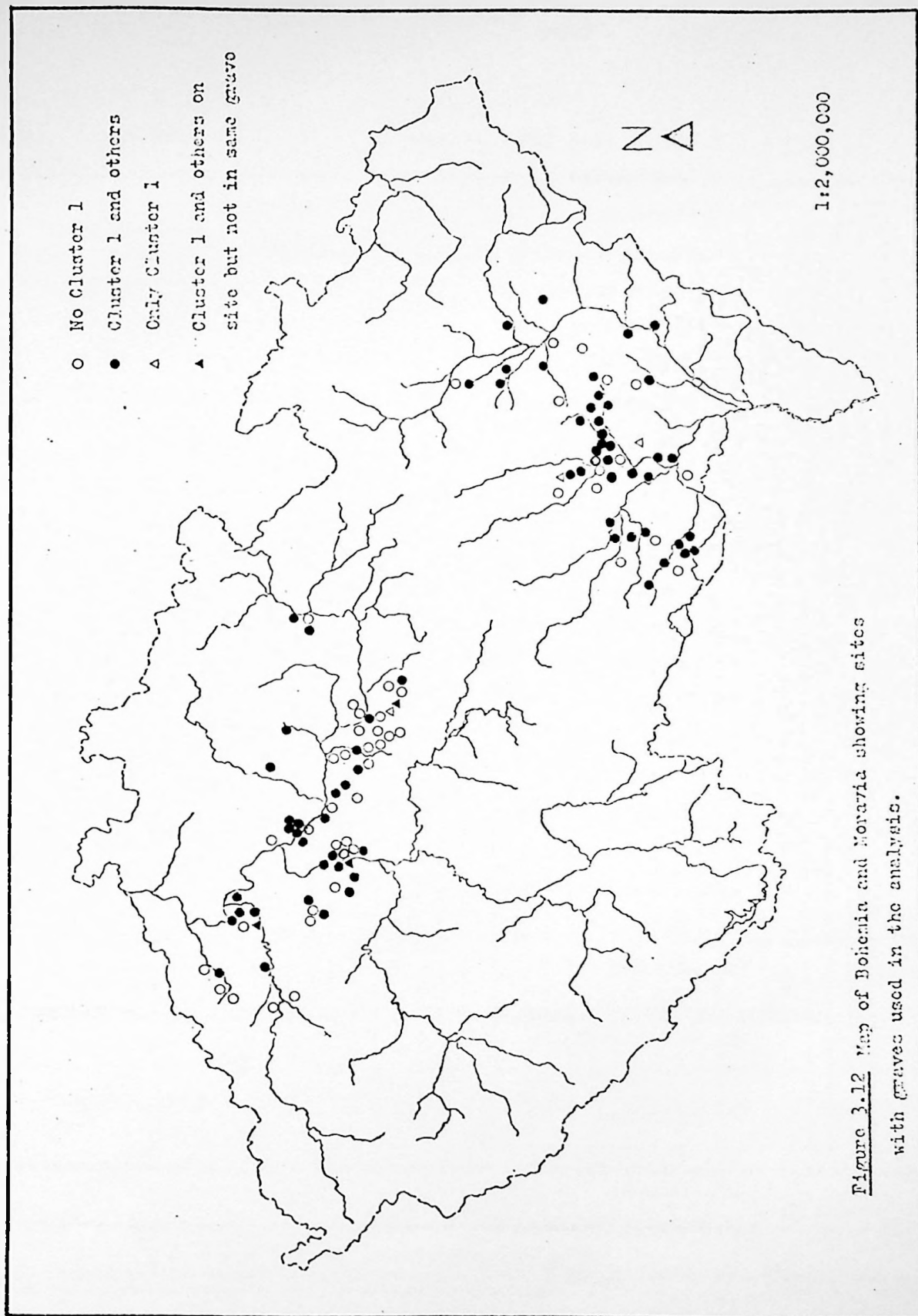


Figure 3.12 Map of Bohemia and Moravia showing sites with graves used in the analysis.

Type

1. Decorated Bell Beaker
2. Decorated Handled Bell Beaker
3. Undecorated Bell Beaker
4. Undecorated Handled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polypod Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other Vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Urn
32. Whetstone

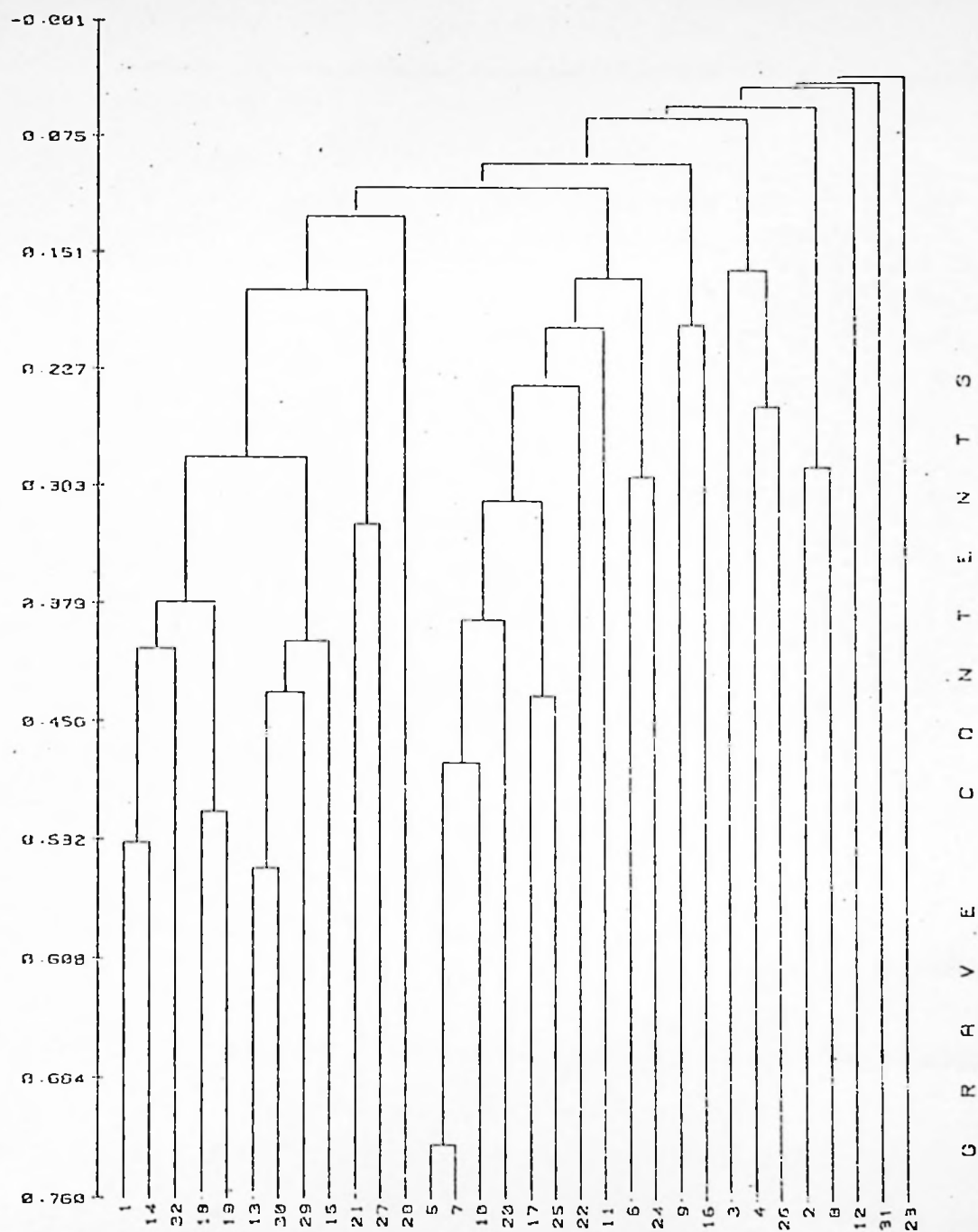


Figure 3.13 Average-link dendrogram of the relationships between objects, Moravian graves only.

Type

1. Decorated Bell Beaker
2. Decorated Handed Bell Beaker
3. Undecorated Bell Beaker
4. Undecorated Handed Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polypod Bowl
10. 'Topf'
11. Handed 'Topf'
12. Other vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Whetstone

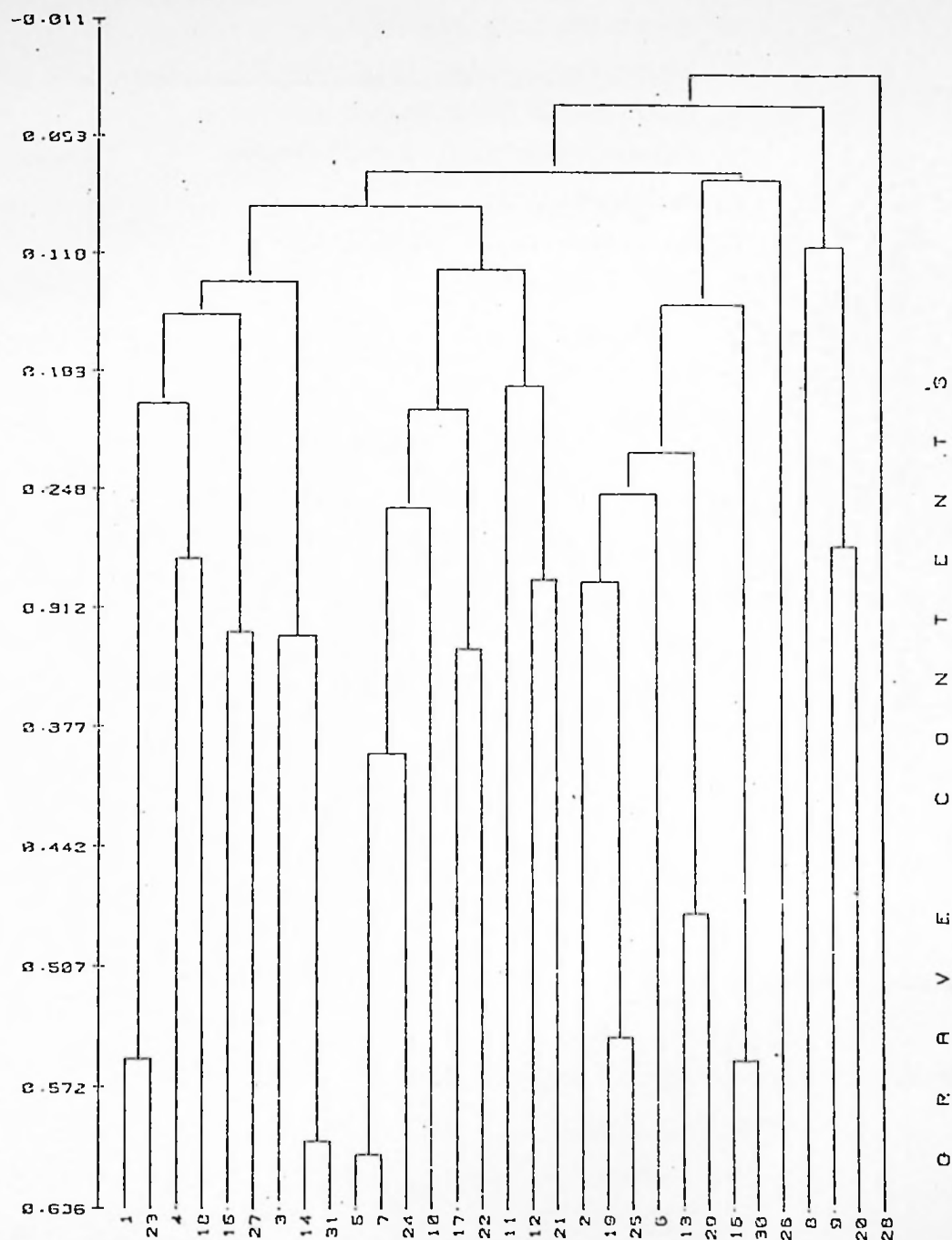


Figure 3.14 Average-link dendrogram of the relationships
between objects, Bohemian graves only.

Type

1. Decorated Bell Beaker
2. DecoratedHandled Bell Beaker
3. Undecorated Bell Beaker
4. UndecoratedHandled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polypod Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other Vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Urn
32. Whetstone

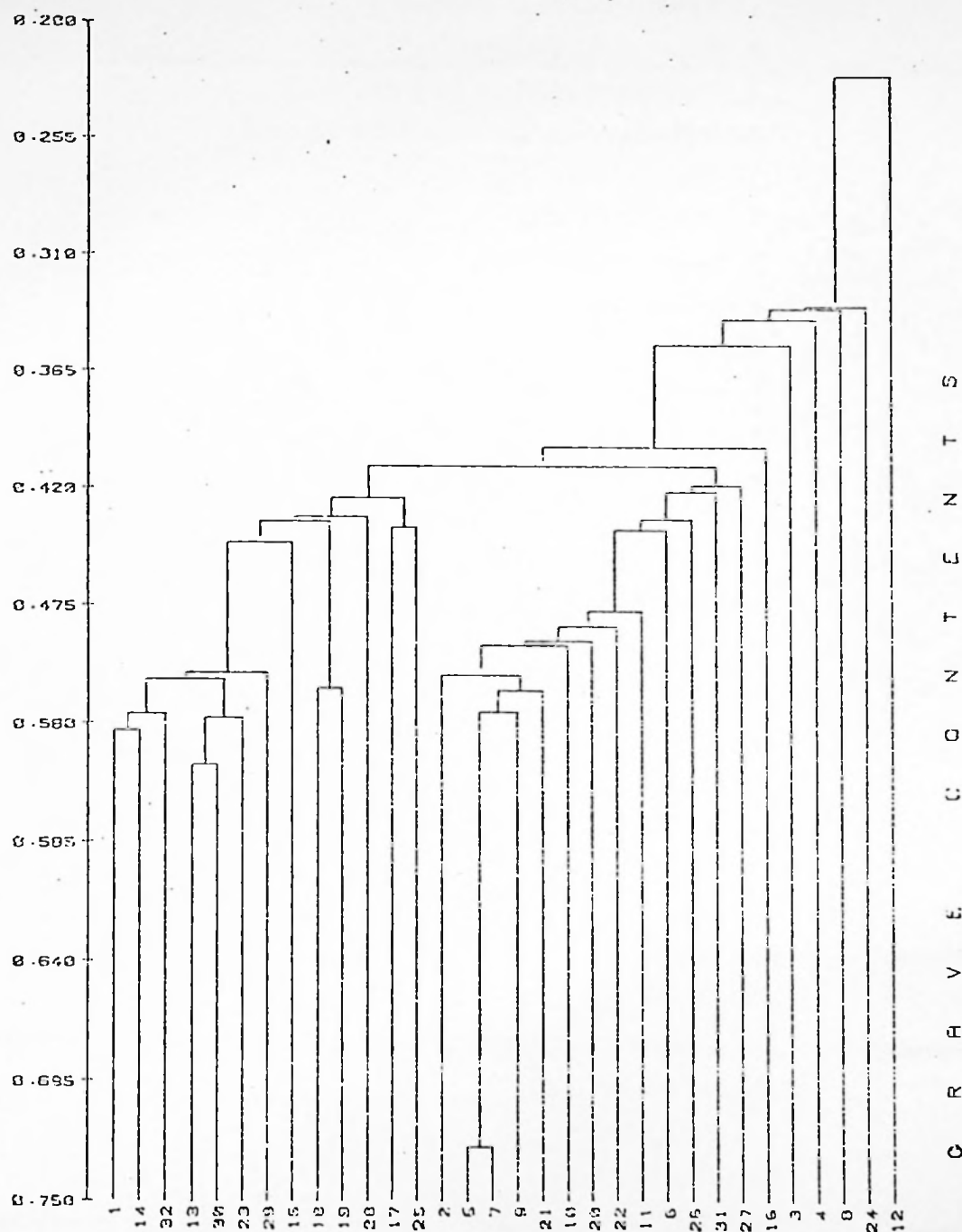


Figure 3.15 Single-link dendrogram of the relationships between objects, Moravian graves only.

Type

1. Decorated Bell Beaker
2. DecoratedHandled Bell Beaker
3. Undecorated Bell Beaker
4. UndecoratedHandled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polyped Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Whetstone

Type

1. Decorated Bell Beaker
2. Decorated Handed Bell Beaker
3. Undecorated Bell Beaker
4. Undecorated Handed Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polyped Bowl
10. 'Topf'
11. Handed 'Topf'
12. Other Vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Urn
32. Whetstone

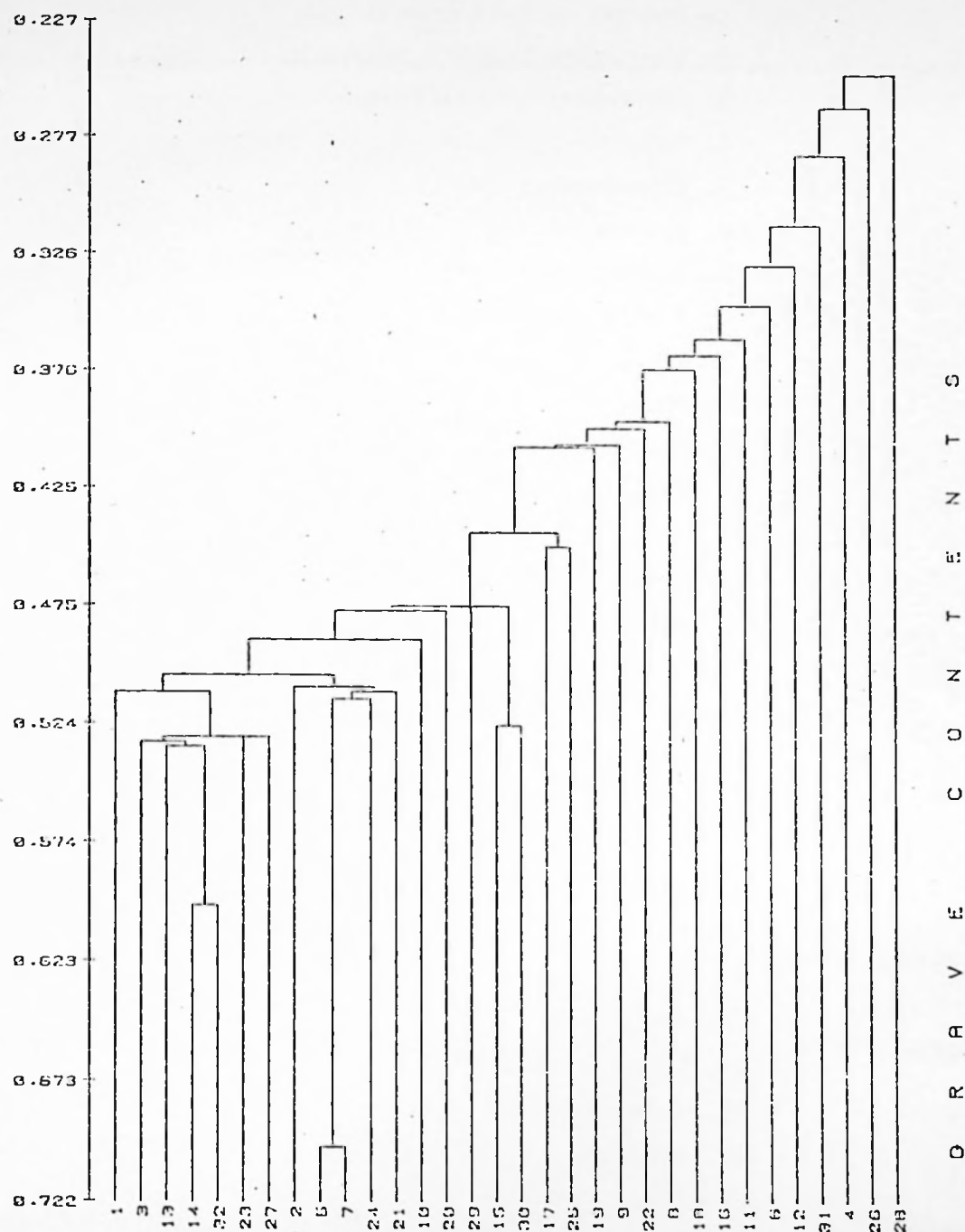


Figure 3.17 Single-link dendrogram of the relationships between objects with the graves randomly divided into two halves, Group 1.

Type

1. Decorated Bell Beaker
2. Decorated Handled Bell Beaker
3. Undecorated Bell Beaker
4. Undecorated Handled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polypod Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other Vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Bone Awl
22. Animal Bones
23. Ear-rings
24. Copper Sheet
25. Amber Button
26. Amphora
27. Flint Blade
28. Sherds
29. Flint Scraper
30. Boar's Tusk
31. Urn
32. Whetstone

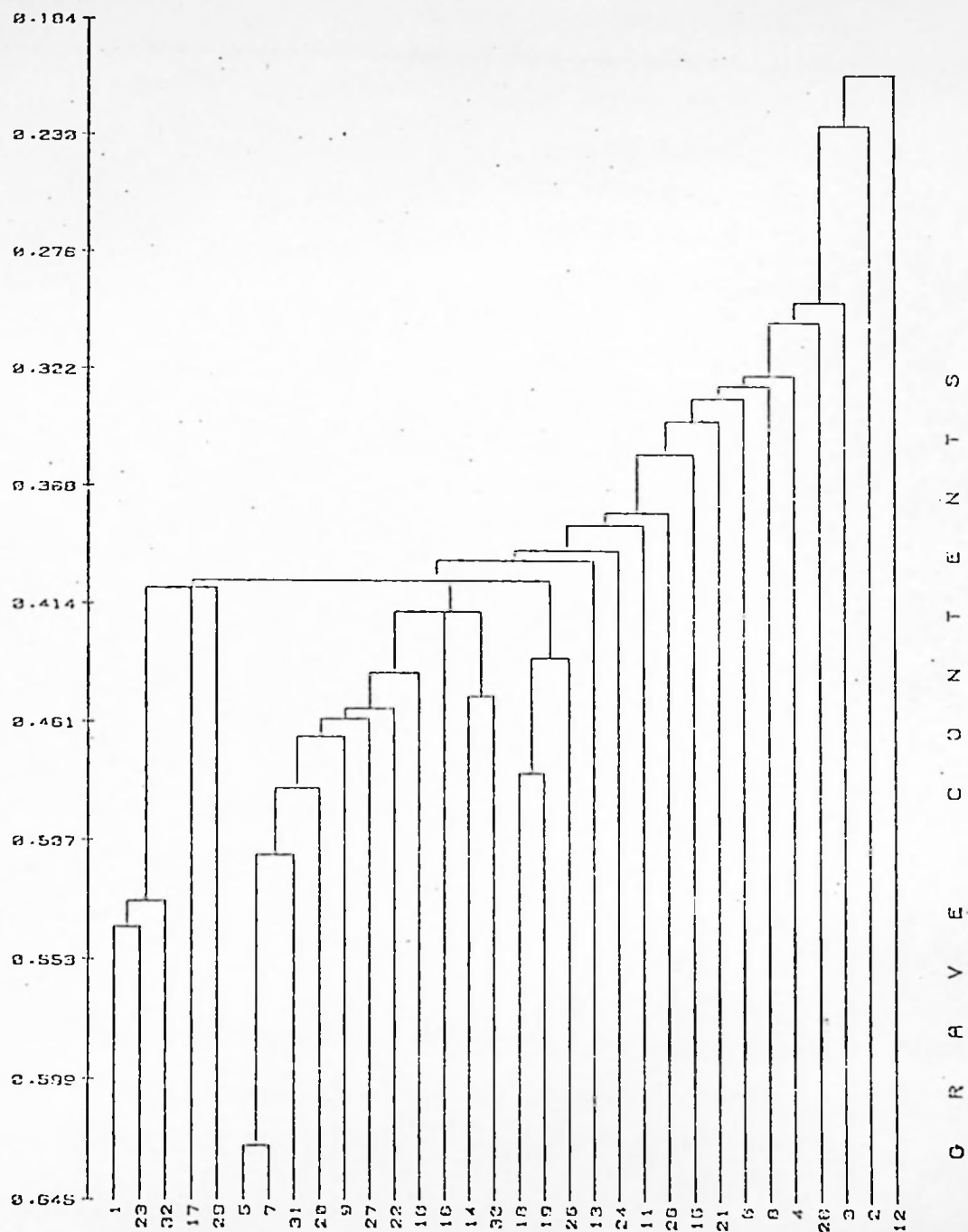


Figure 3.18 Single-link dendrogram of the relationships between objects with the graves randomly divided into two halves, Group 2.

Type

1. Decorated Bell Beaker
2. Undecorated Bell Beaker
3. Undecorated Jug
4. Decorated Jug
5. Undecorated Bowl
6. Decorated Bowl
7. Polypod Bowl
8. 'Topf'
9. Handled 'Topf'
10. Other vessel (not belonging
to any one of the defined types)
11. Arrowhead
12. Stone Axe
13. Flint Flake
14. Bone Pendant
15. Copper Awl
16. Copper Dagger
17. Wrist-guard
18. V-perforated Button
19. Bone Awl
20. Animal Bones
21. Amber Button
22. Amphora
23. Flint Blade
24. Sherds
25. Flint Scraper
26. Boar's Tusk
27. Urn

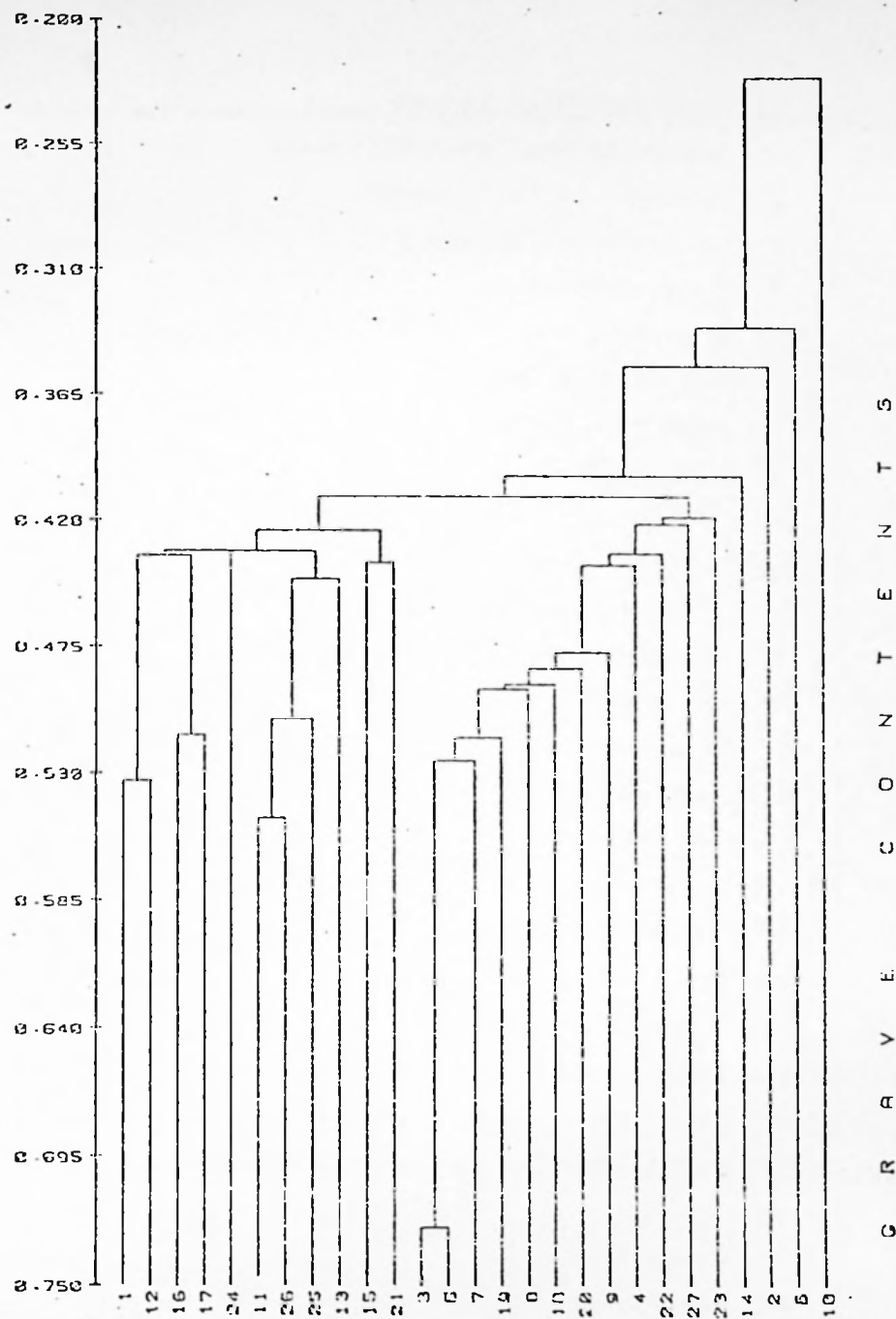


Figure 3.19 Single-link dendrogram of the relationships between objects, Moravian graves only, rare objects removed.

Type

1. Decorated Bell Beaker
2. Decorated Handled Bell Beaker
3. Undecorated Bell Beaker
4. Undecorated Handled Bell Beaker
5. Undecorated Jug
6. Decorated Jug
7. Undecorated Bowl
8. Decorated Bowl
9. Polypod Bowl
10. 'Topf'
11. Handled 'Topf'
12. Other vessel (not belonging
to any of the defined types)
13. Arrowhead
14. Stone Axe
15. Flint Flake
16. Bone Pendant
17. Copper Awl
18. Copper Dagger
19. Wrist-guard
20. V-perforated Button
21. Animal Bones
22. Ear-rings
23. Copper Sheet
24. Amphora
25. Flint Blade
26. Sherds
27. Flint Scraper

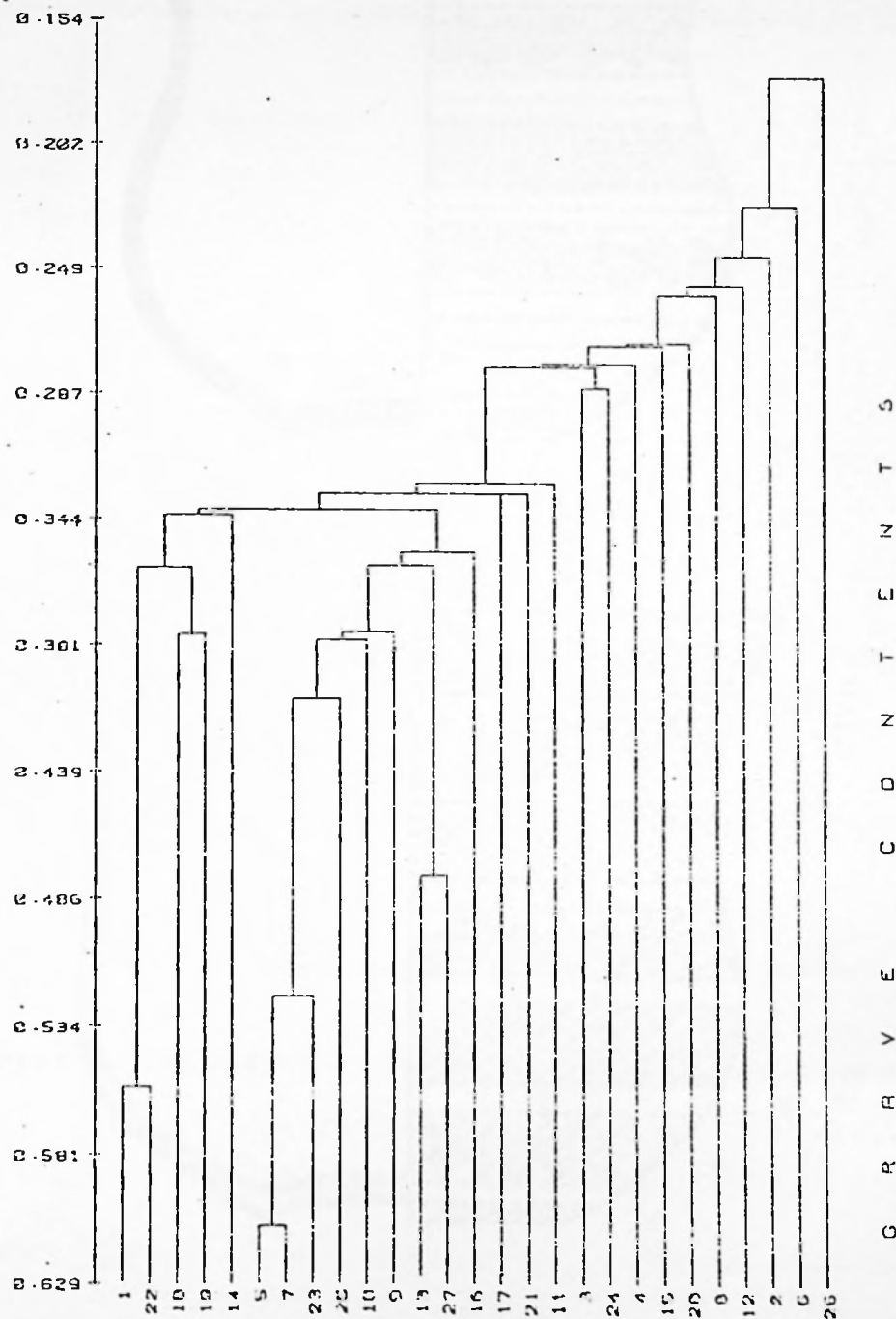


Figure 3.20 Single-link dendrogram of the relationships between objects, Bohemian graves only, rare objects removed.

7

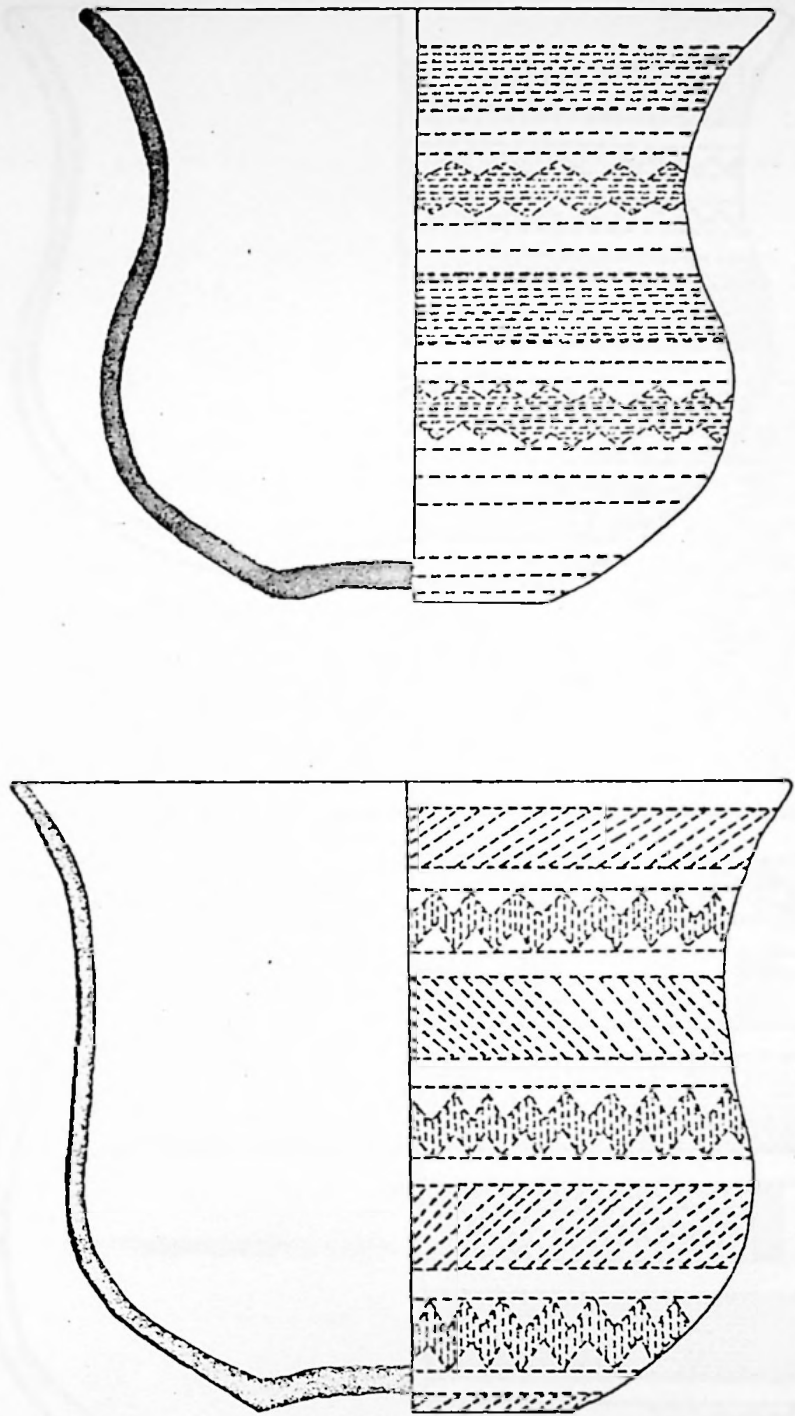


Figure 4.1 Bell Beakers from grave 2 at Bylany. Scale: both 3:4.



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These are the arms of the House of York, as they appeared in the reign of Edward IV.

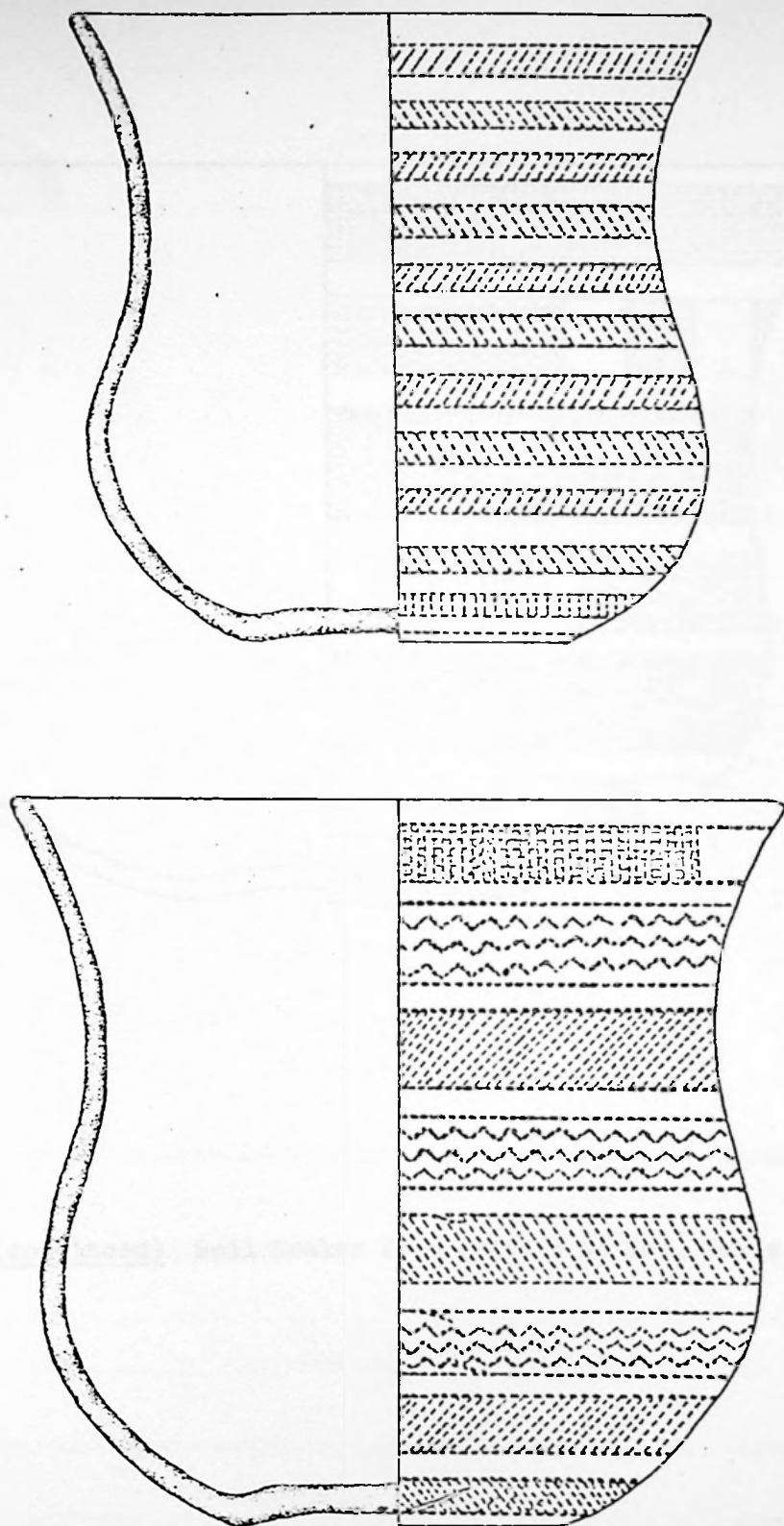


Figure 4.2 Bell Beakers from grave 3 at Řež. Scale: both 3:4.
 Note that the gap in the fill of the top zone of the lower vessel
 is genuine.



These are the same as the ones in the last page.
The only difference is the size of the bowl.
It is smaller.

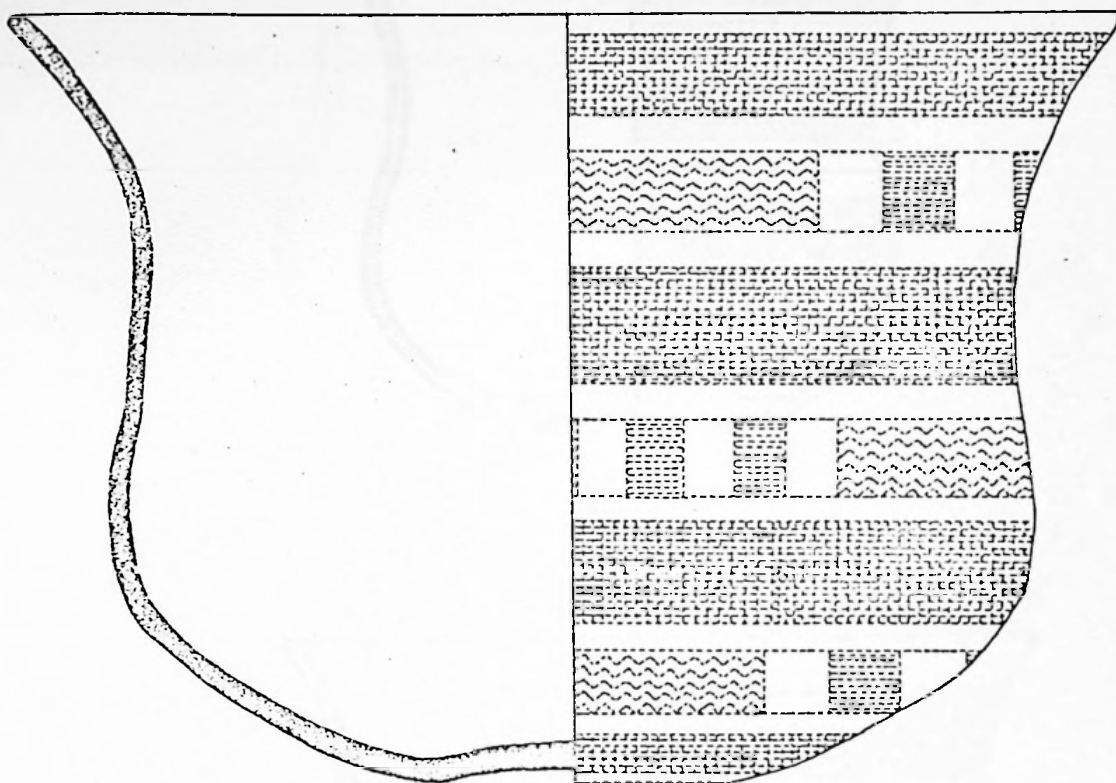


Figure 4.2 (continued) Bell Beaker from grave 3 at Rez. Scale: 3:5.



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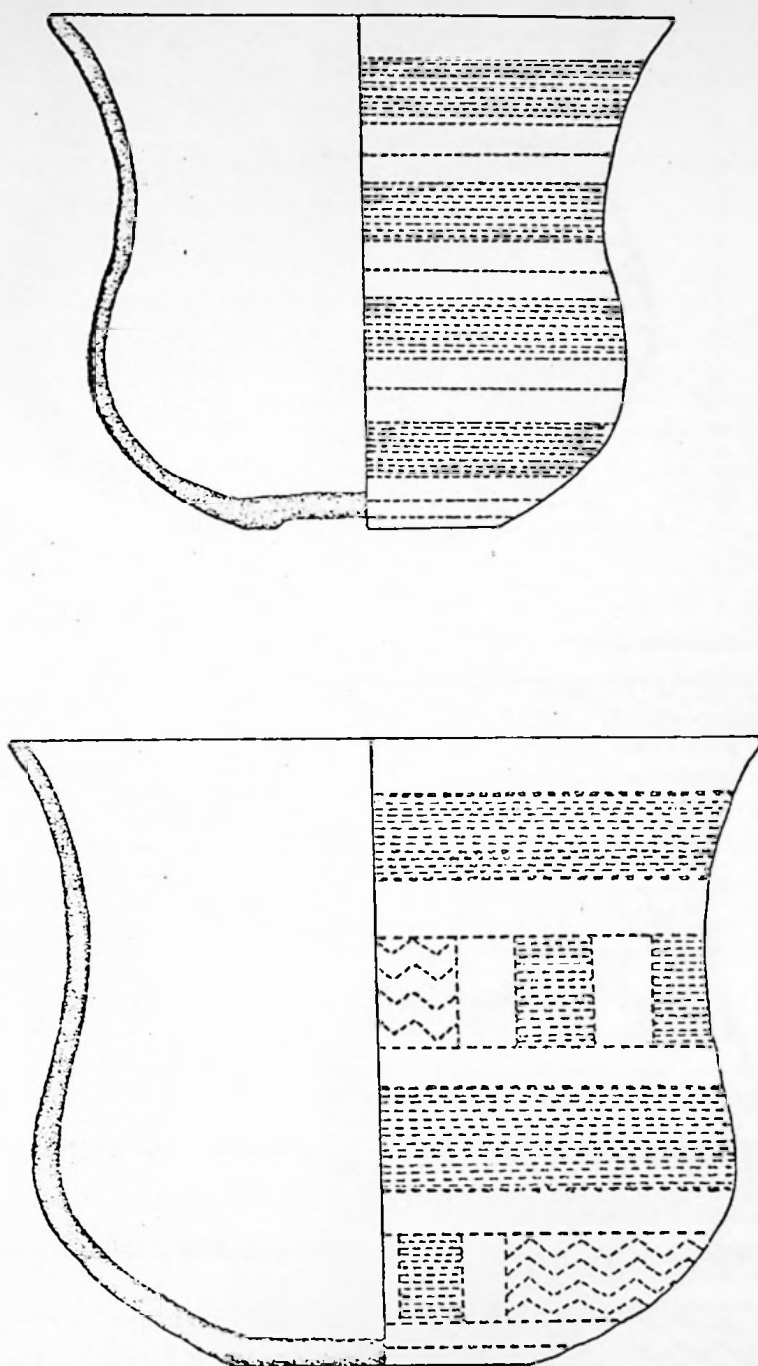


Figure 4.3 Bell Beakers from grave 4 at Neratovice. Scale: both 3:4.



THESE ARE THE ONLY TWO SHIELDS IN THE COLLECTION WHICH ARE NOT

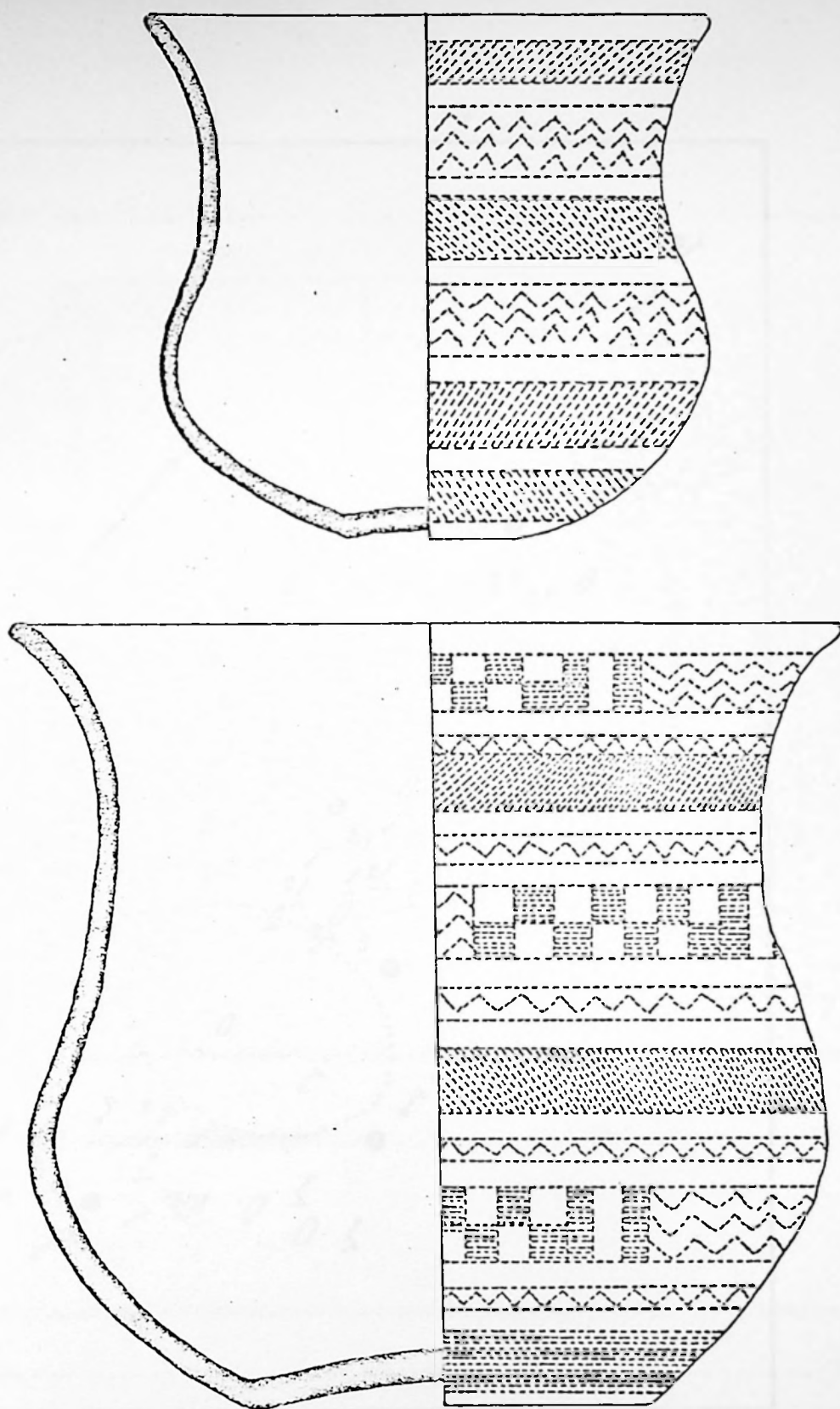


Figure 4.4 Bell Beakers from grave 5 at Bylany. Scale: both 3:4.



Fig. 1. Vase with a flared rim and a central panel. (The text is faint and difficult to read.)

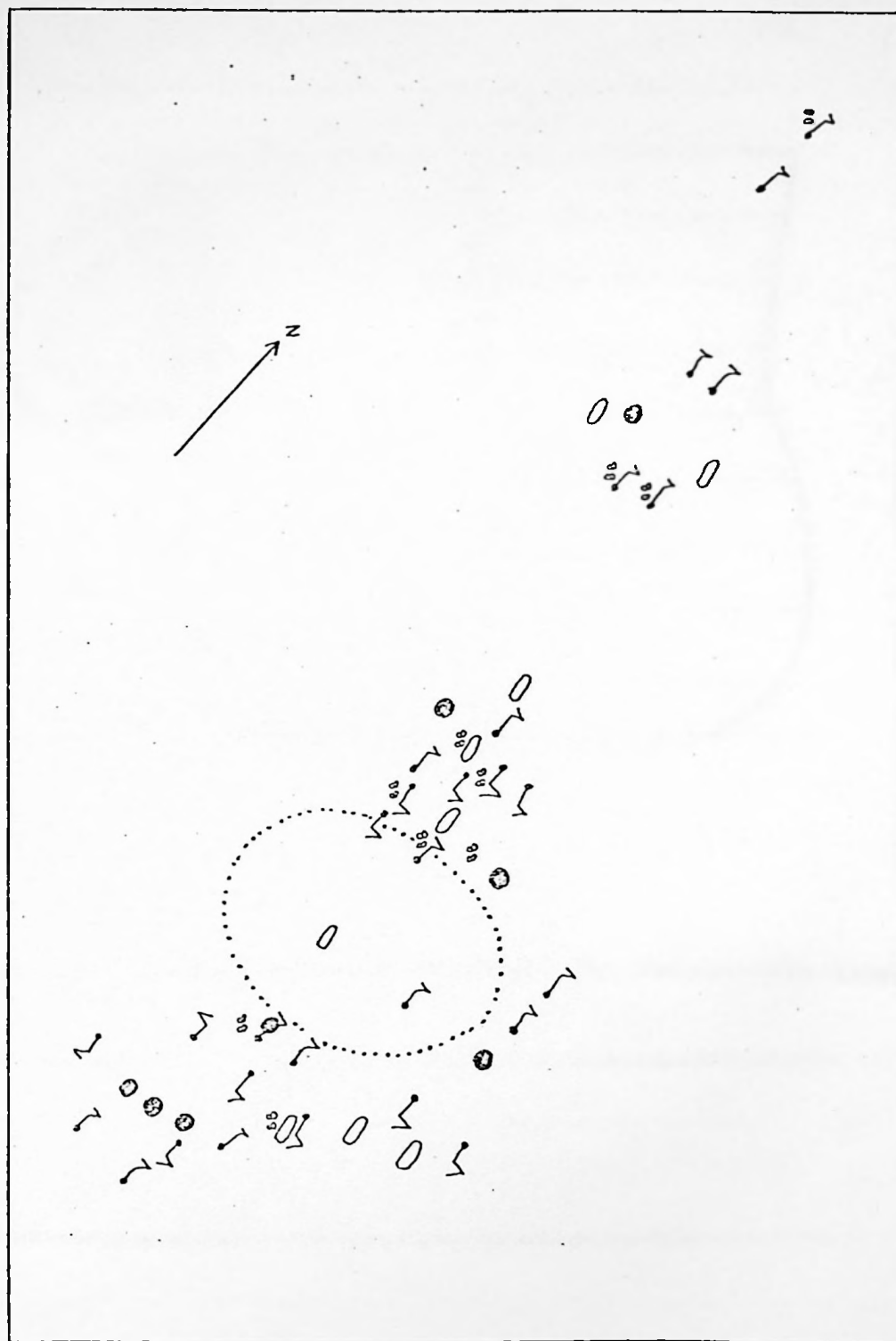


Figure 4.5 The Bell Beaker cemetery at Šlapanice site 7, Moravia.



Sketch of the interior of the house of the late Mr. [illegible]

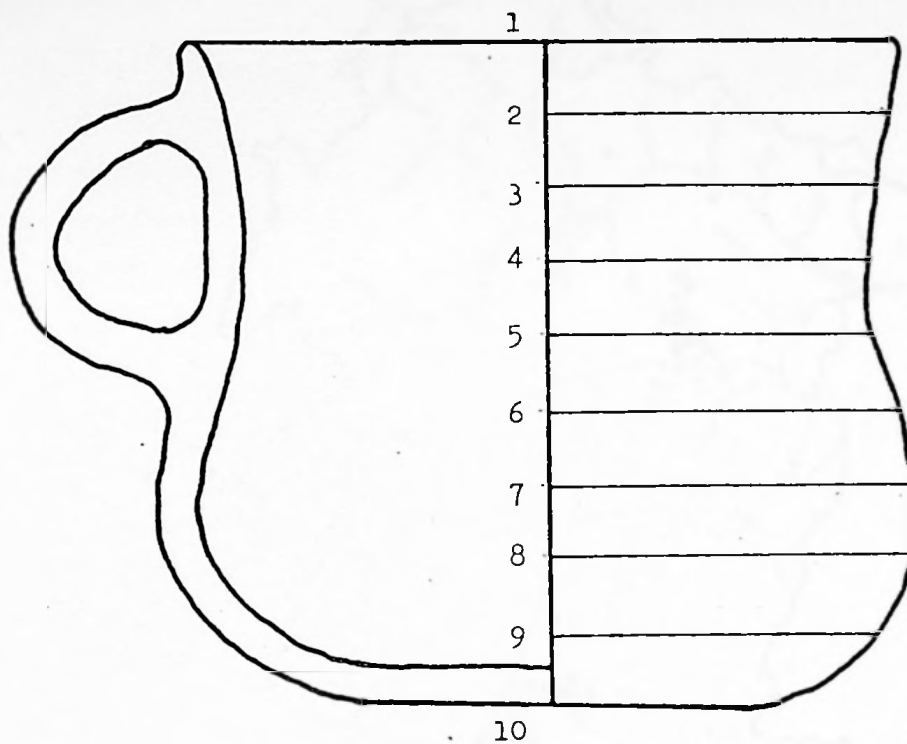


Figure 4.6 Drawing of jug to illustrate the measurements taken.



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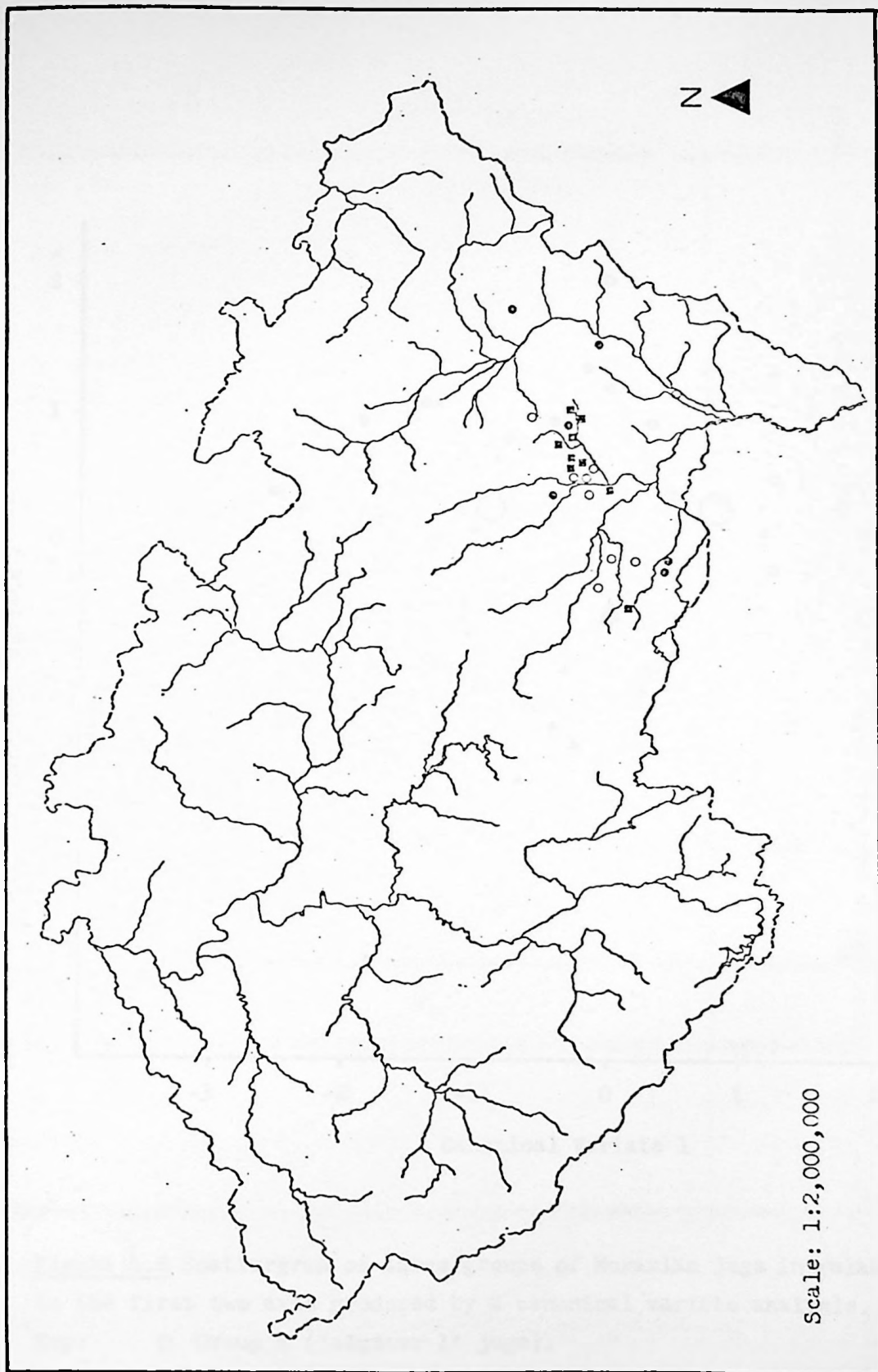


Figure 4.7 Distribution map of Moravian sites with jugs used in the statistical analyses.

The following is a list of the
 names of the persons who
 were present at the meeting
 held on the 1st of June 1901

The following is a list of the
 names of the persons who
 were present at the meeting
 held on the 1st of June 1901



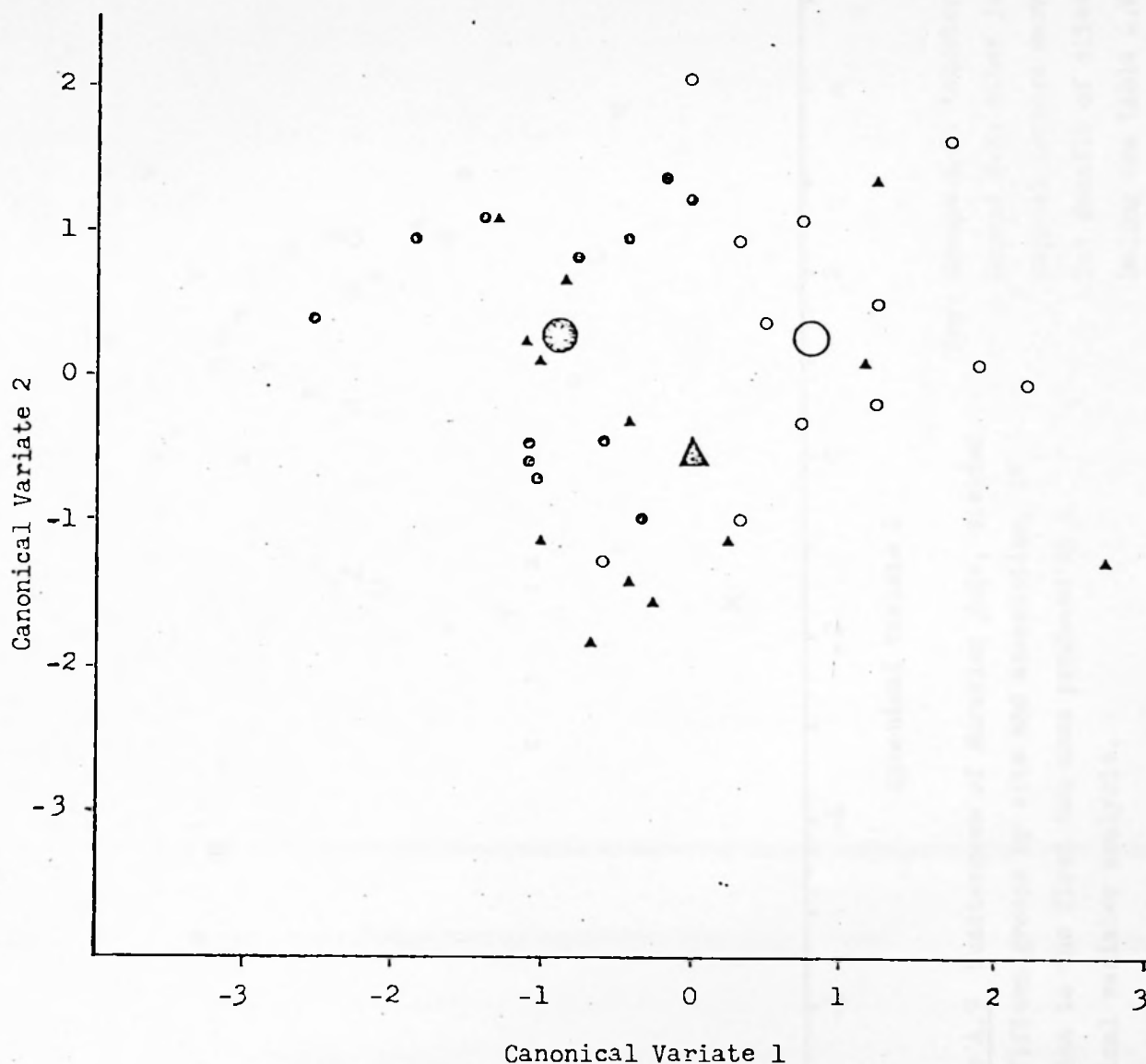


Figure 4.8 Scattergram of three groups of Moravian jugs in relation to the first two axes produced by a canonical variate analysis.

Key: ○ Group A ('cluster 1' jugs).

● Group X (other jugs, sample 1)

▲ Group Y (other jugs, sample 2)

Large symbols represent the mean of their respective groups.



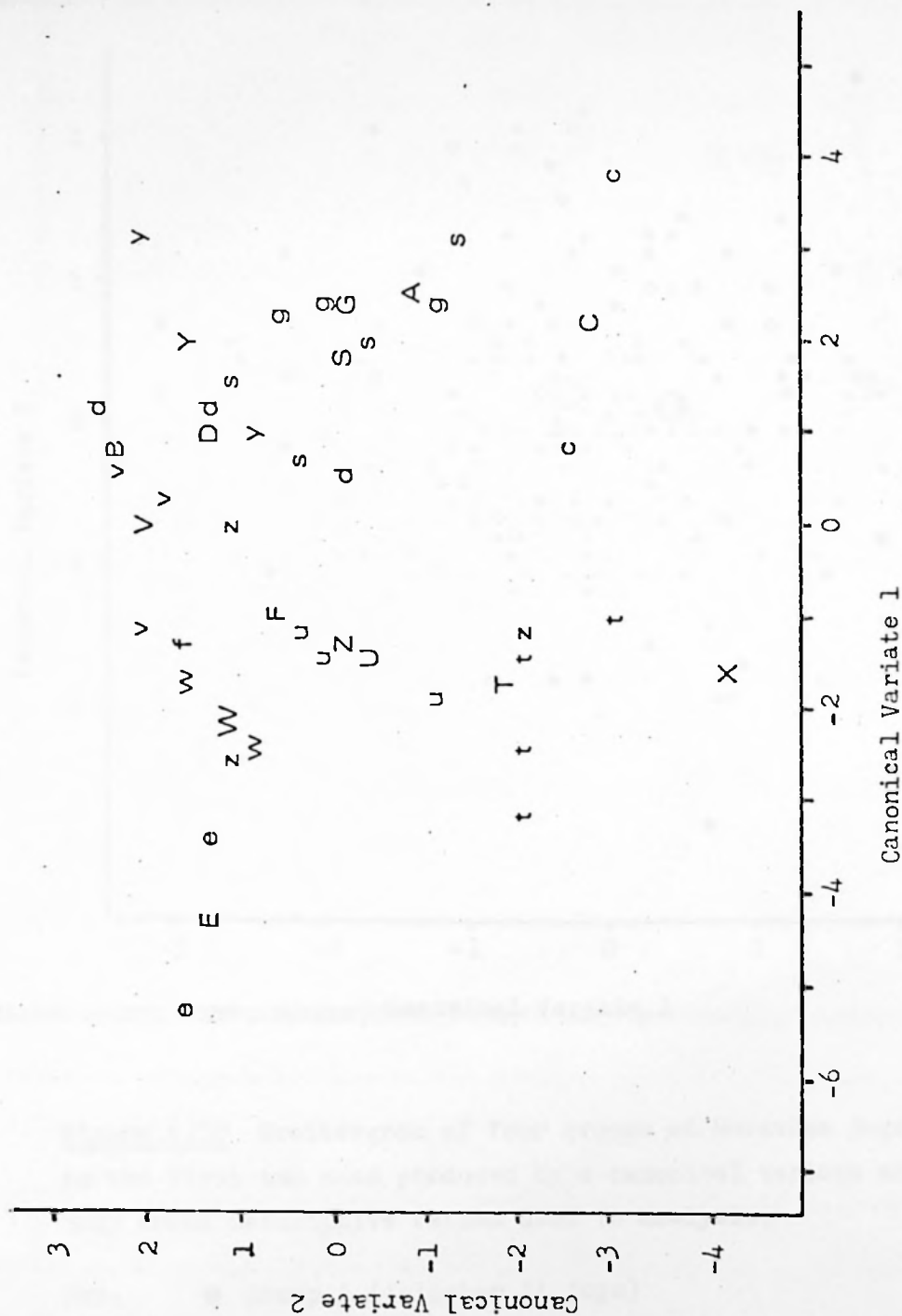


Figure 4.9 Scattergram of Moravian jugs, divided into fifteen groups by site and association, in relation to the first two axes produced by a canonical variates analysis.

And if you're not going to
 get into the right
 state of mind, you're not
 going to be able to afford it.
 This is the only way.

There's a lot of people who are
 in a state of mind who are
 not going to be able to afford it.
 This is the only way.



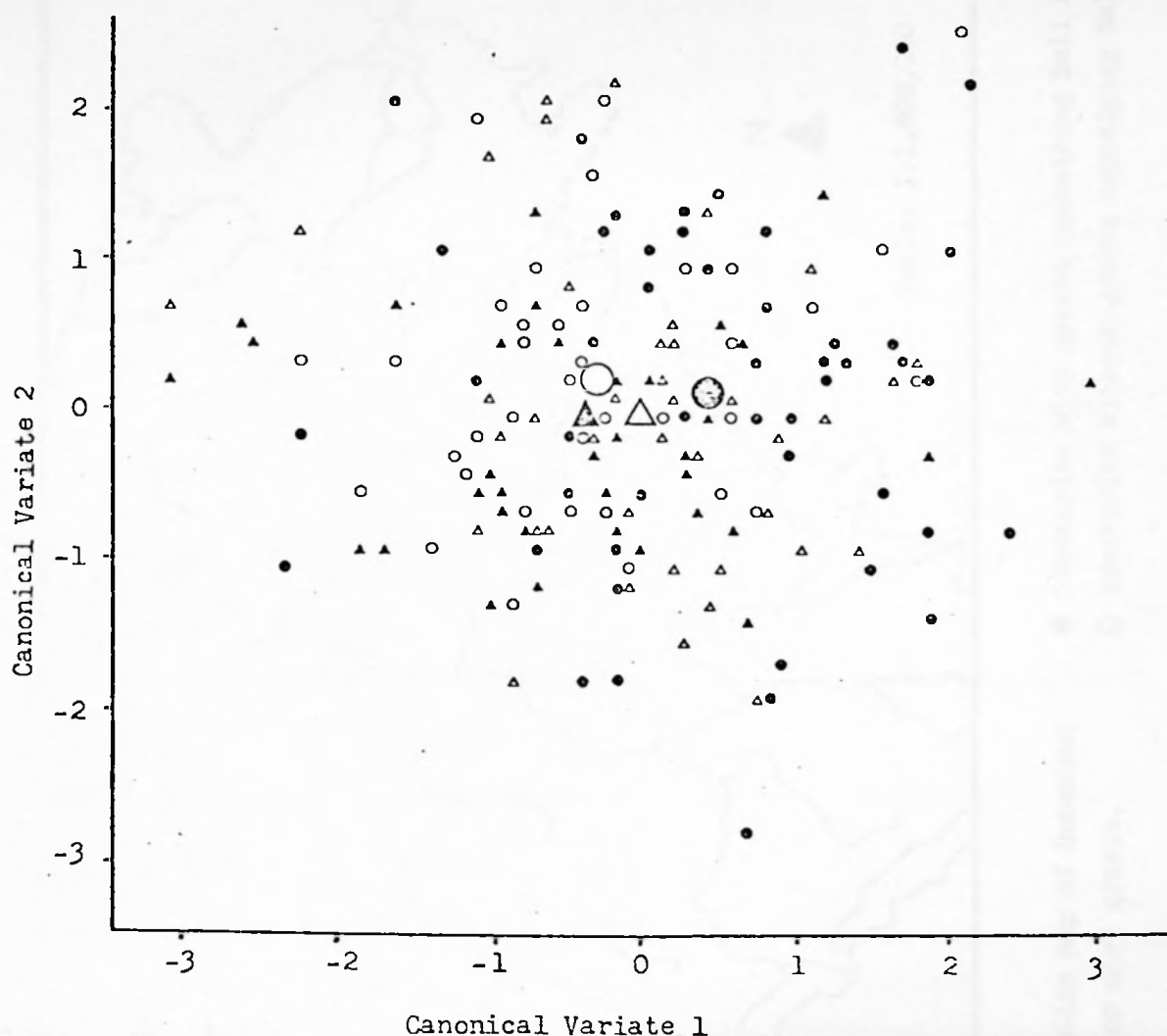


Figure 4.10 Scattergram of four groups of Moravian jugs in relation to the first two axes produced by a canonical variate analysis; only three descriptive ratios used in analysis.

Key: ● Group A ('cluster 1' jugs)
 ○ Group X (other jugs, sample 1)
 ▲ Group Y (other jugs, sample 2)
 △ Group Z (other jugs, sample 3)
 Large symbols represent the mean of their respective groups.



Figure 1. Scatter plot of Y versus X. The data points are scattered around a diagonal line, indicating a positive correlation between the two variables. The X-axis ranges from 0 to 10, and the Y-axis ranges from 0 to 10.

The following table provides a summary of the data points shown in the scatter plot:

X	Y
1.5	2.5
2.5	3.5
3.5	4.5
4.5	5.5
5.5	6.5
6.5	7.5
7.5	8.5
8.5	9.5
9.5	10.5
1.0	1.5
2.0	2.0
3.0	3.0
4.0	4.0
5.0	5.0
6.0	6.0
7.0	7.0
8.0	8.0
9.0	9.0
10.0	10.0

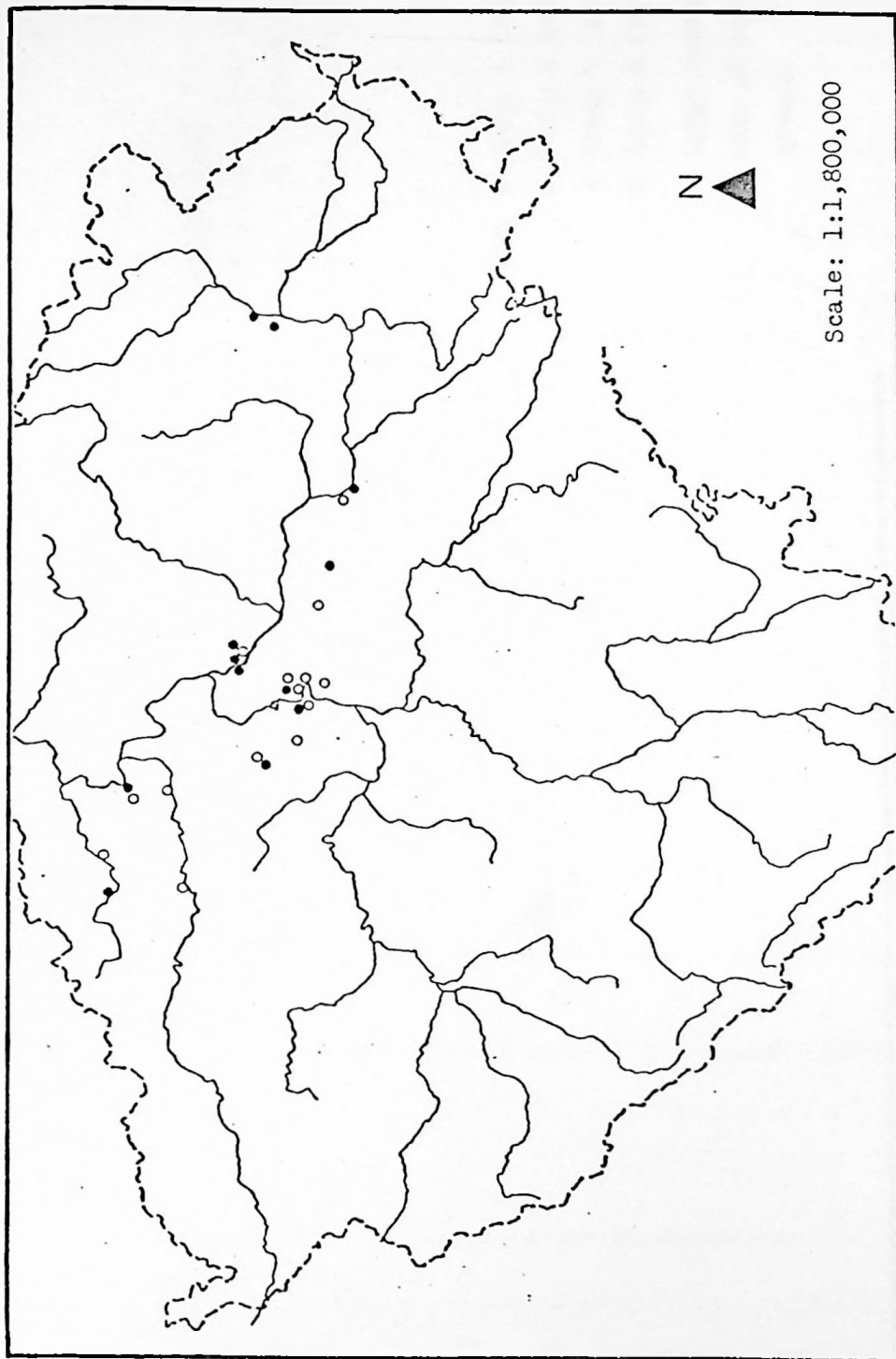


Figure 4.11 Distribution map of Bohemian cemeteries with five or more graves. ● Cemeteries with graves containing Bell Beakers. ○ Cemeteries without graves containing Bell Beakers.



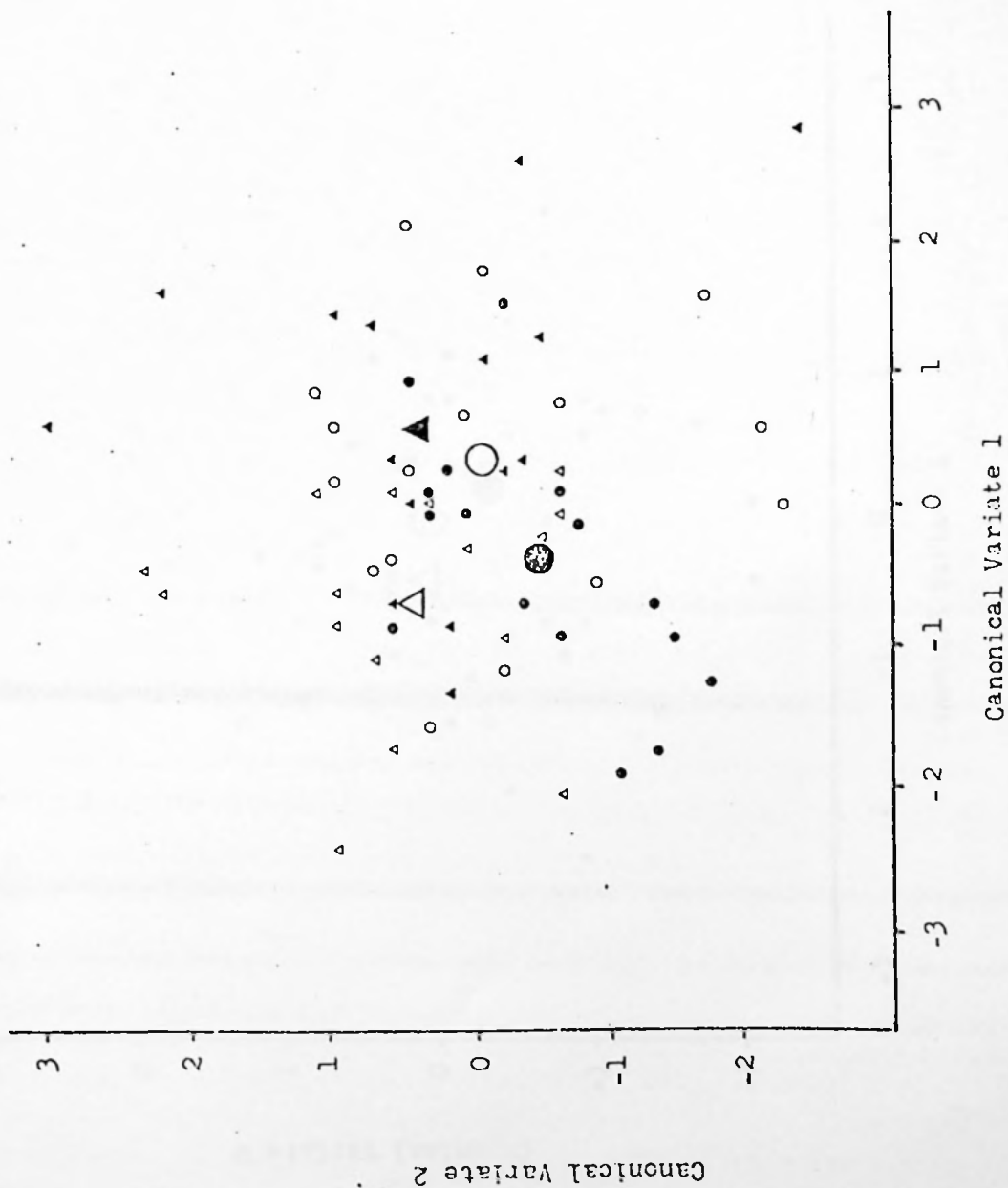


Figure 4.12 Scattergram of four groups of Bohemian jugs in relation to the first two axes produced by a canonical variate analysis. 12 ratio data.

Key: ● Group A ('cluster 1' jugs).
 ○ Group X (other jugs, Sample 1).
 ▲ Group Y (other jugs, Sample 2).
 △ Group Z (other jugs, Sample 3).

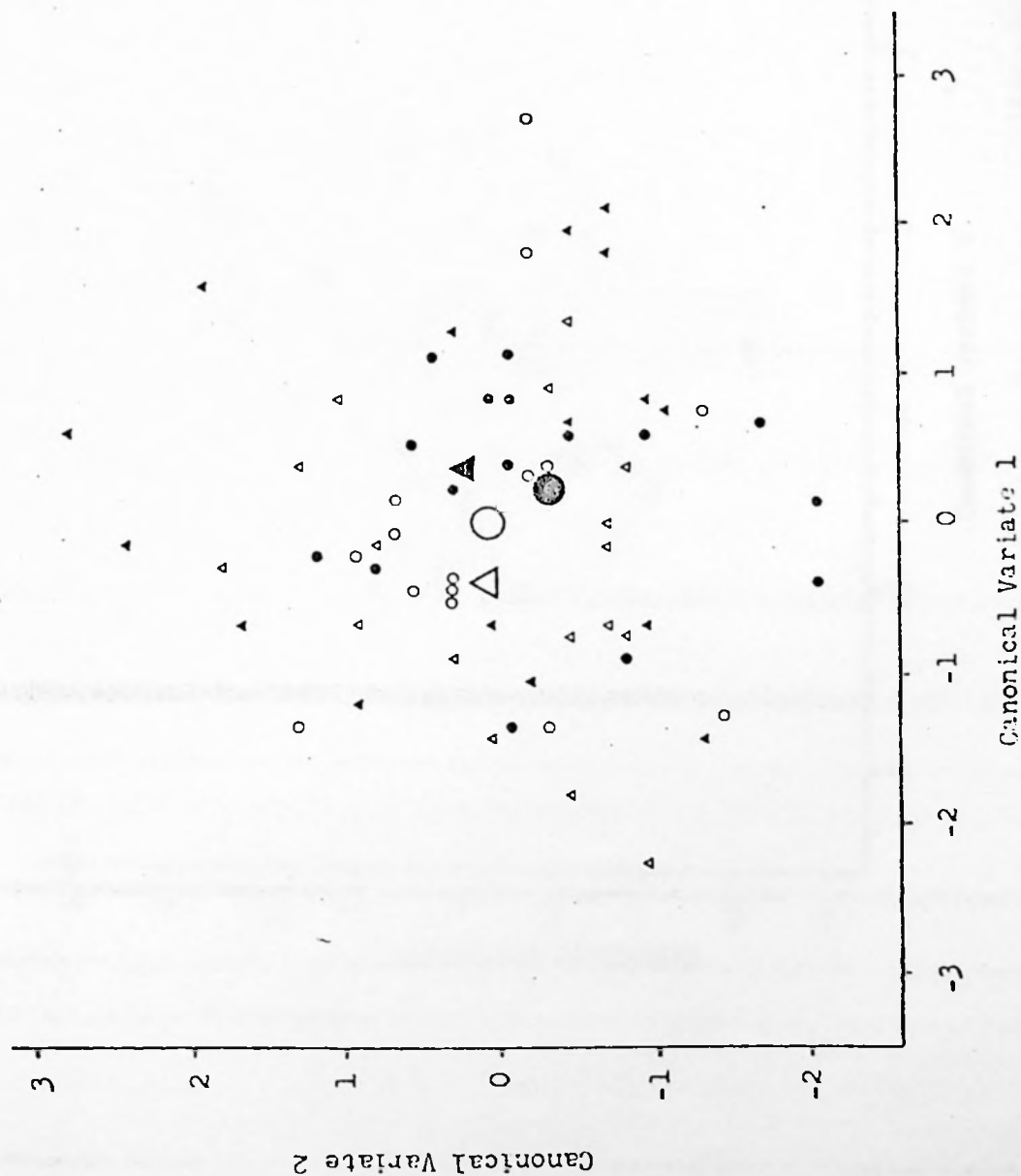
Large symbols represent the mean of their respective groups.

Figure 1. The relationship between the
 amount of rainfall and the amount of
 runoff. The amount of rainfall is
 measured in inches and the amount of
 runoff is measured in feet. The
 data is shown in the table below.



Figure 1. The relationship between the amount of rainfall and the amount of runoff.

Figure 4.13 Scattergram of four groups of Bohemian jugs in relation to the first two axes produced by a canonical variate analysis. 3 ratio data.



Key: ● Group A ('cluster 1' jugs).
 ○ Group X (other jugs, sample 1).
 ▲ Group Y (other jugs, sample 2).
 △ Group Z (other jugs, sample 3).
 Large symbols represent the mean of their respective groups.

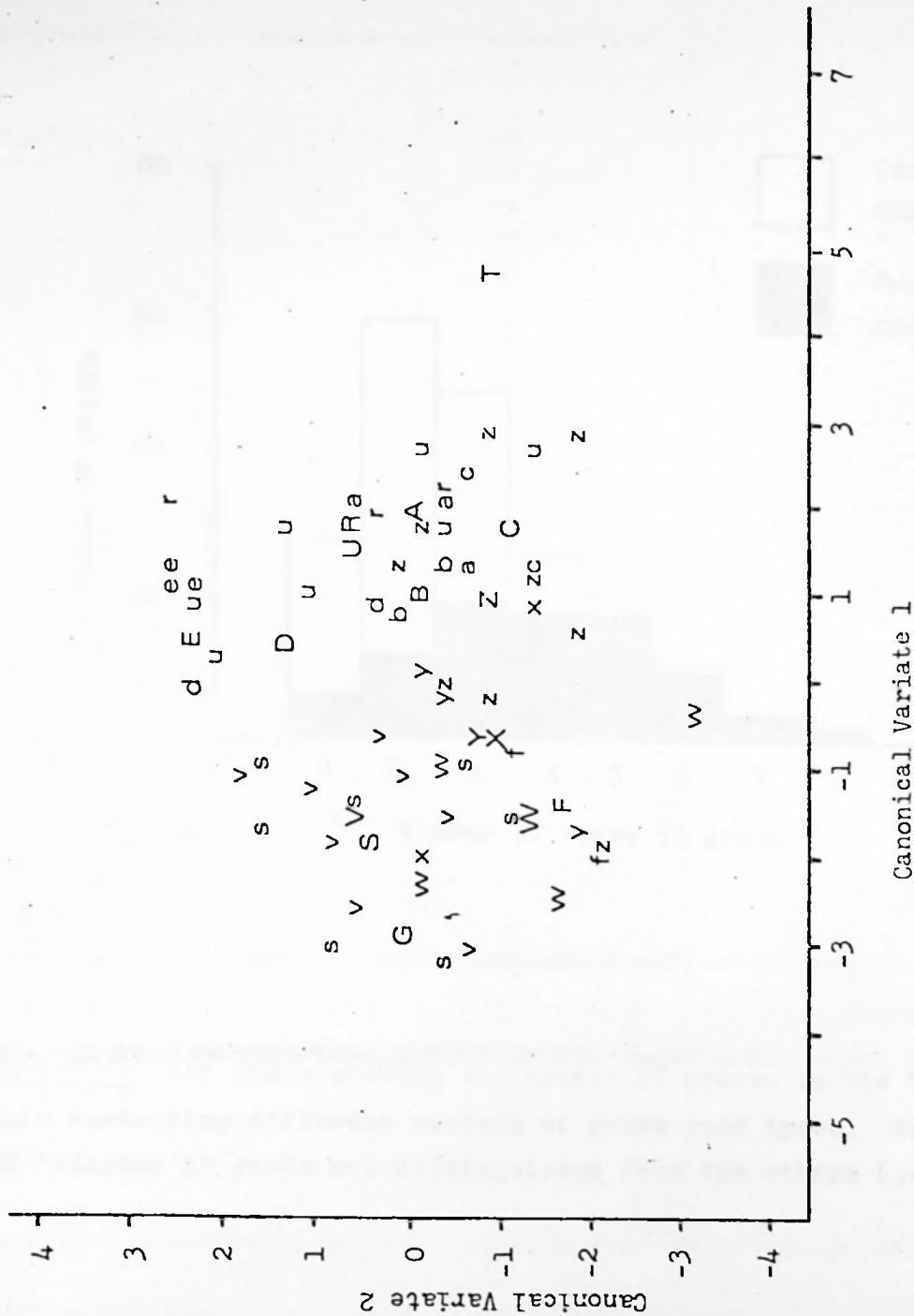


Figure 4.14 Scattergram of Bohemian jugs, divided into fifteen groups by site and association, in relation to the first two axes produced by a canonical variate analysis.

The first part of the experiment was to determine the effect of temperature on the rate of reaction. The reaction was carried out at three different temperatures: 20°C, 30°C, and 40°C. The rate of reaction was measured by the volume of gas evolved over a period of 10 minutes.

The results of the experiment are shown in the table below. It can be seen that the rate of reaction increases with increasing temperature. This is because the molecules have more kinetic energy and are therefore more likely to collide successfully.

Table 1: Rate of reaction at different temperatures



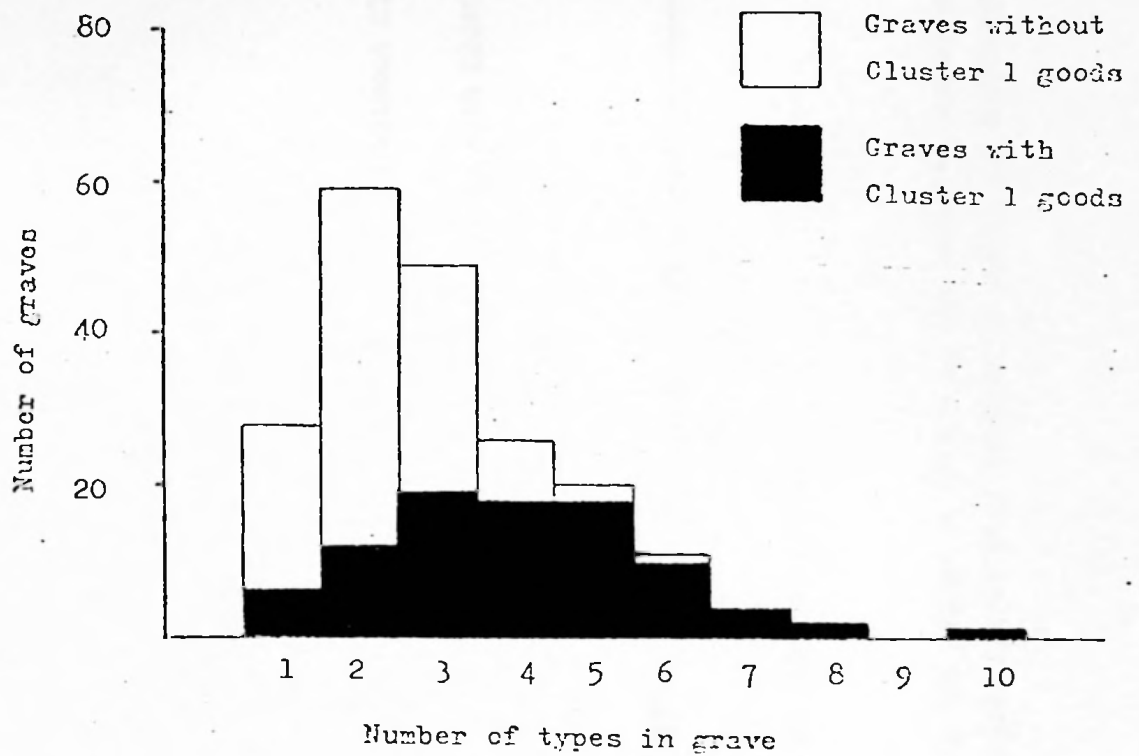


Figure 5.1a Bar graph showing the number of graves in the Moravian sample containing different numbers of grave good types. Graves with 'cluster 1' goods are distinguished from the others (see key).

Controlled
Group 1 (Control)



Controlled
Group 2 (Control)



Figure 1. The number of cases in the two groups. The number of cases in the two groups is shown. The number of cases in the two groups is shown. The number of cases in the two groups is shown.

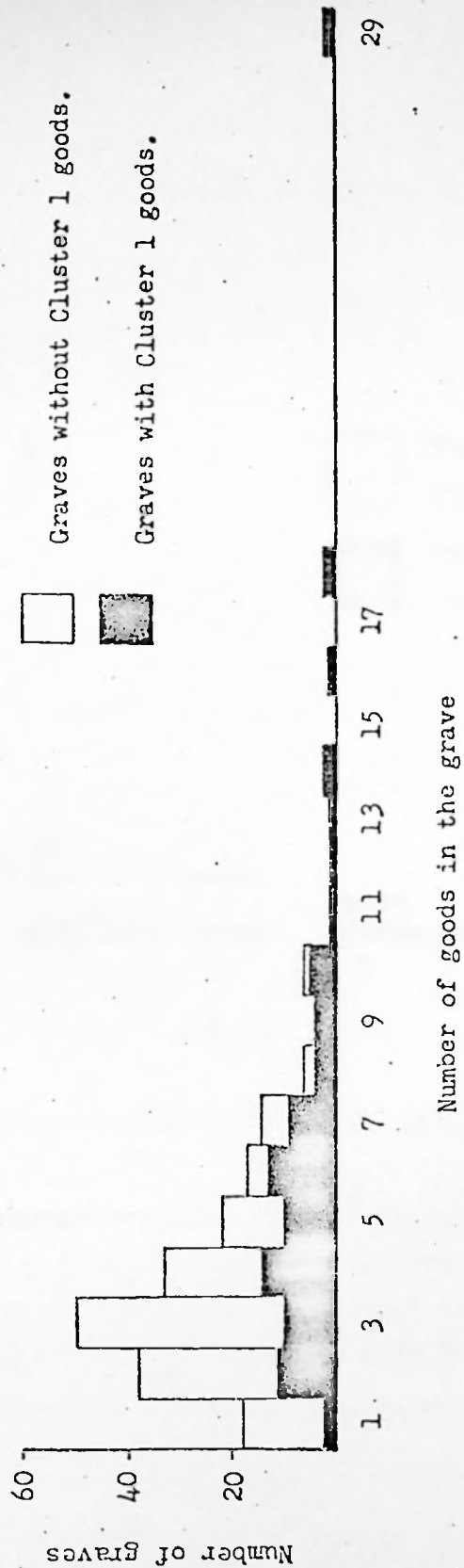


Figure 5.1b Bar graph showing the number of graves in the Moravian sample containing different numbers of grave goods. Graves with 'cluster 1' goods are distinguished from the others (see key).

The model has been
 estimated using the following data
 and the results are shown in the
 table below.

Table 1. Results of the model



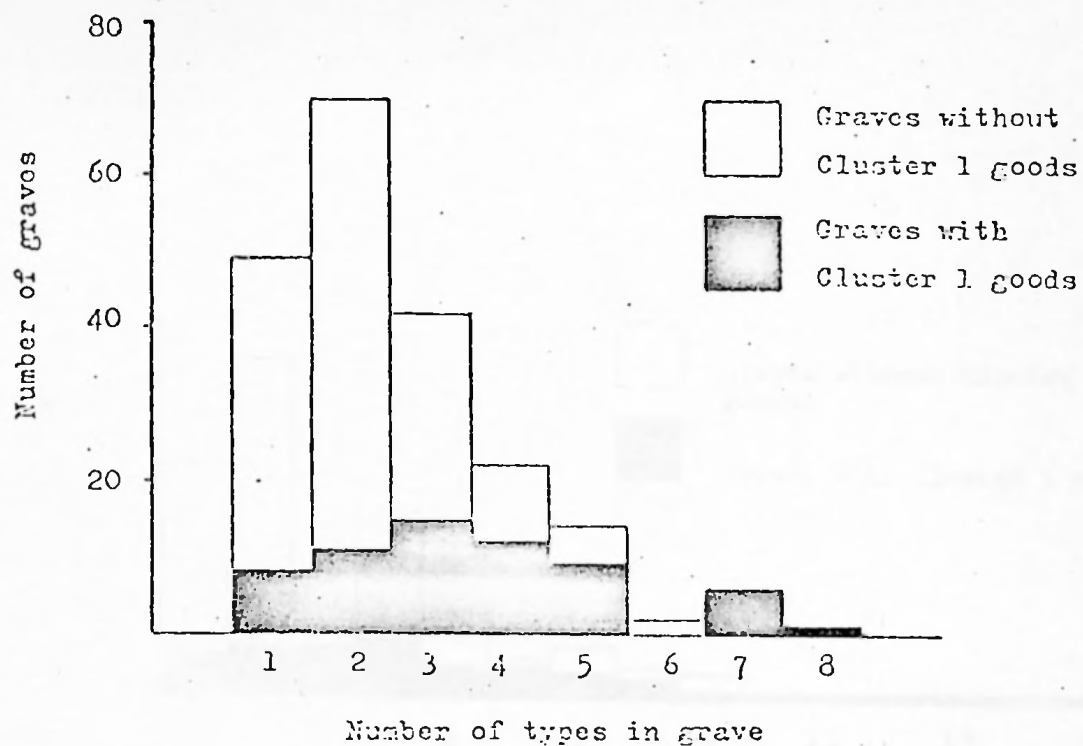


Figure 5.2a Bar graph showing the number of graves in the Bohemian sample containing different numbers of grave good types. Graves with Bohemian 'cluster 1' goods are distinguished from the others (see key).

1870-1871

1871-1872

1872-1873

1873-1874

1874-1875

1875-1876

1876-1877

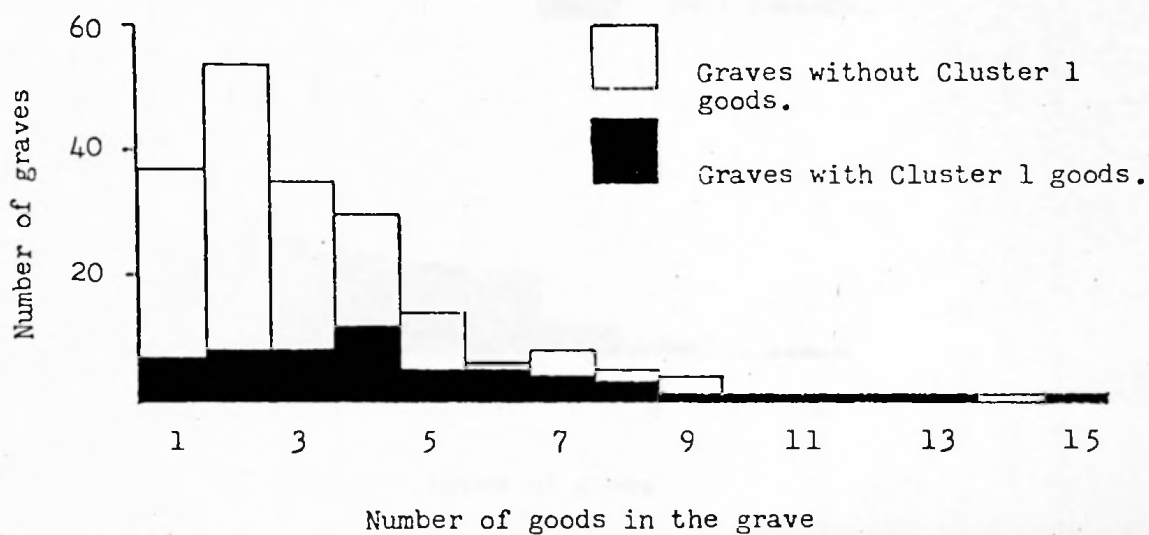


Figure 5.2b Bar graph showing the number of graves in the Bohemian sample containing different numbers of grave goods. Graves with Bohemian 'cluster 1' goods are distinguished from the others (see key).



The following table shows the distribution of the variable across categories. The distribution is skewed to the right, with the highest frequency in the first category.

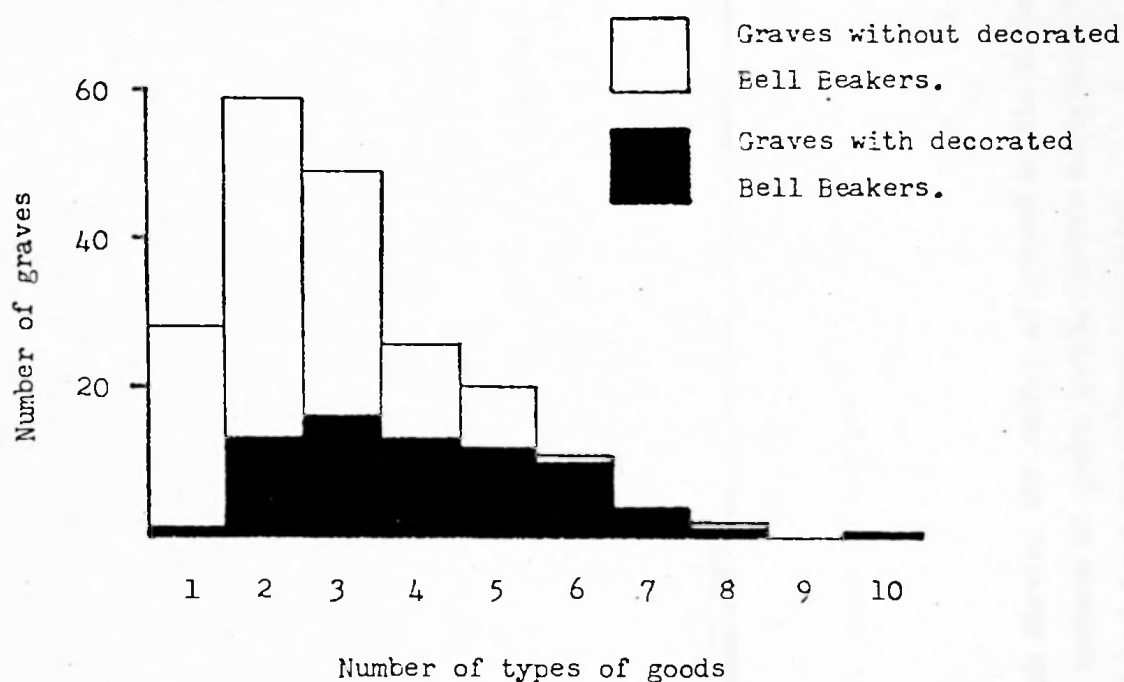


Figure 5.3a Bar graph showing the number of graves in the Moravian sample containing different numbers of grave good types. Graves containing decorated Bell Beakers are distinguished from the others (see key).

Experimental results

Figure 1

Figure 2

Figure 3



Figure 1. The graph shows the concentration of the solution as a function of time. The concentration increases rapidly and then levels off. The data points are plotted as open circles, and a smooth curve is drawn through them. The concentration reaches a maximum value of about 0.8 g/l after 4 minutes.

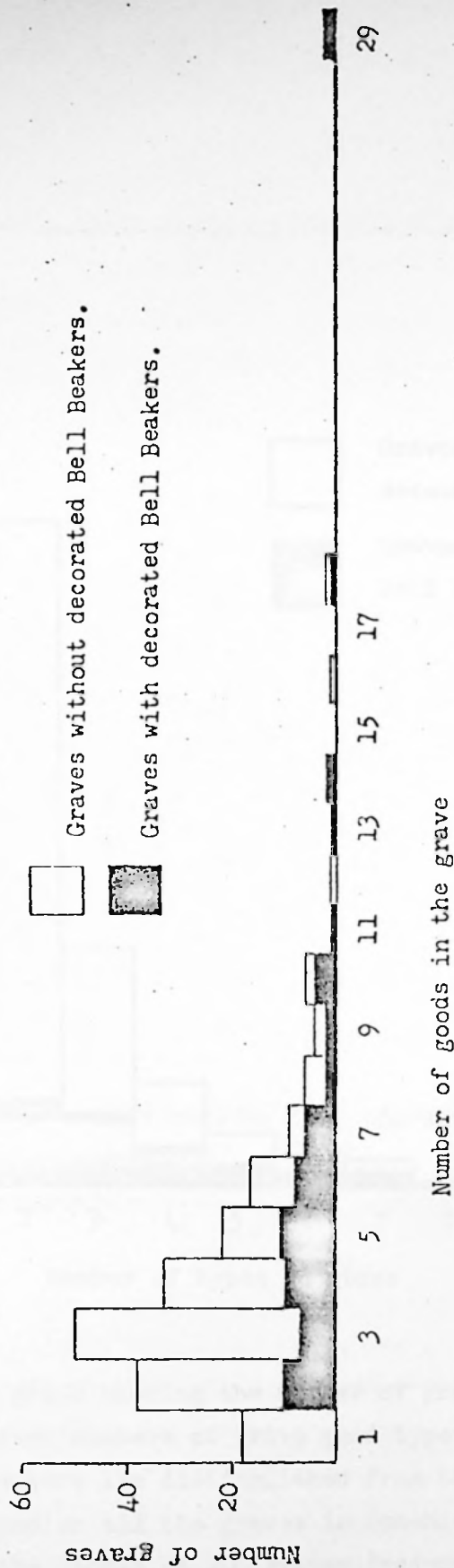


Figure 5.3b Bar graph showing the number of graves in the Moravian sample containing different numbers of grave goods. Graves containing decorated Bell Beakers are distinguished from the others (see key).

The first two columns show the number of
 subjects in each group, and the third column shows the
 number of subjects in each group who were in the control group.

Table 1. Data on the subjects



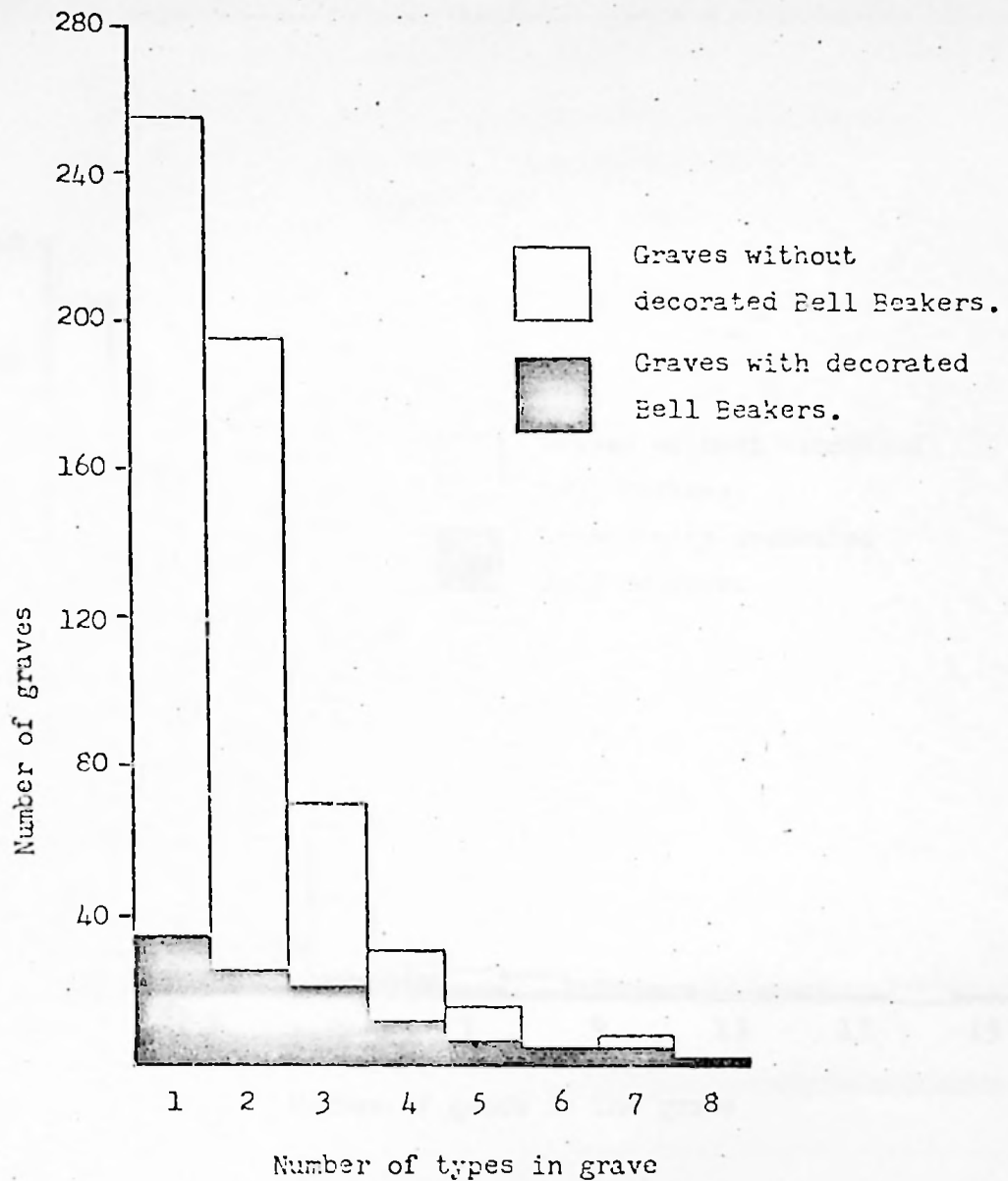


Figure 5.4a Bar graph showing the number of graves in Bohemia containing different numbers of grave good types. Graves containing decorated Bell Beakers are distinguished from the others (see key). This graph is based on all the graves in Bohemia catalogued by Hájek (1968), as the sample of 200 graves included too few with decorated Bell Beakers for a significance test to be carried out (see table 5.II).



Figure 1.1 shows the number of cases for each category. The y-axis represents the number of cases, ranging from 0 to 500. The x-axis represents the categories, numbered 1 through 6. The data shows a significant increase in the number of cases for category 6, which exceeds 400 cases, while categories 1 through 5 show much lower values, ranging from approximately 10 to 50 cases.

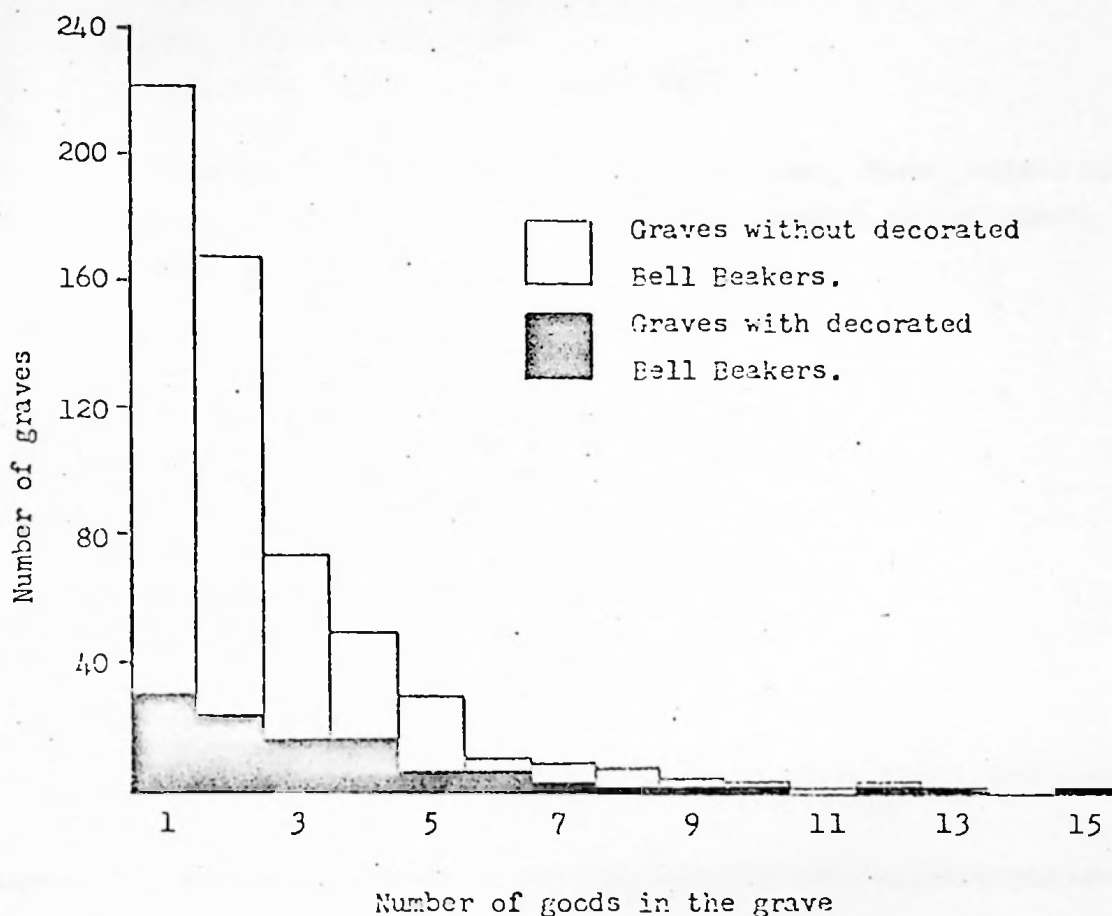


Figure 5.4b Bar graph showing the number of graves in Bohemia containing different numbers of grave goods. Graves with decorated Bell Beakers are distinguished from the others (see key). This graph is based on all the graves in Bohemia catalogued by Hájek (1968), as the sample of 200 graves included too few with decorated Bell Beakers for a significance test to be carried out (see table 5.II).



The following table shows the distribution of cases by age group. The data is presented in a bar chart format. The y-axis represents the number of cases, and the x-axis represents the age groups. The distribution shows a general increase in the number of cases as the age group increases.

Figure 5.5 Dendrogram produced by average-link cluster analysis of the relations between Bell Beaker graves, together with a list of the contents of the graves in the clusters. Moravia.

Cluster 1

<u>Grave No.</u>	<u>Contents</u>
1	Decorated Bell Beaker, jug, bowl, Topf, animal bones.
46	Decorated Bell Beaker, jug, bowl, animal bones.
94	Jug, bowl, Topf, animal bones.
127	Jug, bowl, animal bones.
182	Jug, bowl, animal bones, amber beads.
187	Jug, bowl, animal bones, urn.
88	Undecorated handled Bell Beaker, jug, bowl, flake, animal bones.
190	Jug, bowl, Topf, handled Topf, copper dagger, animal bones, amber beads.

Cluster 2

<u>Grave No.</u>	<u>Contents</u>
13	Jug, bowl.
20	" "
29	" "
32	" "
57	" "
59	" "
61	" "
78	" "
84	" "
175	" "
180	" "
184	" "
87	" "
122	" "
126	" "
131	" "
135	" "
144	" "
145	" "
148	" "
150	" "

The following is a list of the names of the persons who have been
 named in the report of the committee on the subject of the
 proposed new law of the State.

Name	Address
1. Mr. J. H. Smith	New York, N. Y.
2. Mr. W. B. Jones	New York, N. Y.
3. Mr. C. D. Brown	New York, N. Y.
4. Mr. E. F. White	New York, N. Y.
5. Mr. G. H. Black	New York, N. Y.
6. Mr. I. J. Green	New York, N. Y.
7. Mr. K. L. Hall	New York, N. Y.
8. Mr. M. N. King	New York, N. Y.
9. Mr. O. P. Lee	New York, N. Y.
10. Mr. Q. R. Scott	New York, N. Y.

Name	Address
11. Mr. R. S. Adams	New York, N. Y.
12. Mr. T. U. Baker	New York, N. Y.
13. Mr. V. W. Carter	New York, N. Y.
14. Mr. X. Y. Davis	New York, N. Y.
15. Mr. Z. A. Evans	New York, N. Y.
16. Mr. B. C. Foster	New York, N. Y.
17. Mr. D. E. Gibson	New York, N. Y.
18. Mr. F. G. Harris	New York, N. Y.
19. Mr. H. I. Jackson	New York, N. Y.
20. Mr. J. K. Lewis	New York, N. Y.
21. Mr. L. M. Miller	New York, N. Y.
22. Mr. N. O. Nelson	New York, N. Y.
23. Mr. P. Q. Phillips	New York, N. Y.
24. Mr. R. S. Reed	New York, N. Y.
25. Mr. T. U. Smith	New York, N. Y.
26. Mr. V. W. Taylor	New York, N. Y.
27. Mr. X. Y. Thomas	New York, N. Y.
28. Mr. Z. A. Turner	New York, N. Y.
29. Mr. B. C. Wright	New York, N. Y.
30. Mr. D. E. Young	New York, N. Y.
31. Mr. F. G. Allen	New York, N. Y.
32. Mr. H. I. King	New York, N. Y.
33. Mr. J. K. Scott	New York, N. Y.
34. Mr. L. M. Adams	New York, N. Y.
35. Mr. N. O. Baker	New York, N. Y.

Fig. 5.5 (continued)

Cluster 2 (continued)

<u>Grave No.</u>	<u>Contents</u>
151	Jug, bowl.
153	" "
155	" "
157	" "
161	" "
168	" "
169	" "
170	" "
171	" "
31	Jug, bowl, amphora.
188	" " "
97	Decorated handled Bell Beaker, jug, bowl.
124	Jug, bowl, handled Topf.
133	" " " "
156	" " " "
164	" " " "
17	Jug, bowl, wrist-guard.
166	" " " "
167	Jug, bowl, wrist-guard, boar's tusk.
21	Undecorated Bell Beaker, jug, bowl.
75	" " " " "
89	Undecorated Bell Beaker, jug, bowl, flake.
23	Jug, bowl, Topf.
26	" " "
60	" " "
102	" " "
103	" " "
104	" " "
123	" " "
139	" " "
148	" " "
38	Jug, bowl, Topf, flake.
90	Undecorated Bell Beaker, jug, bowl, Topf.
27	Jug, bowl, Topf, V-perforated button.
165	" " " " "
194	Jug, Topf, V-perforated button.
58	Bowl, Topf.

Table 1
Summary of Results

Date: _____

1	10
2	10
3	10
4	10
5	10
6	10
7	10
8	10
9	10
10	10
11	10
12	10
13	10
14	10
15	10
16	10
17	10
18	10
19	10
20	10
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83	10
84	10
85	10
86	10
87	10
88	10
89	10
90	10
91	10
92	10
93	10
94	10
95	10
96	10
97	10
98	10
99	10
100	10

Fig. 5.5 (continued)

Cluster 3

<u>Grave No.</u>	<u>Contents</u>
121	Jug, decorated jug.
141	" " "
128	Jug, decorated jug, bowl.
142	" " " "
149	Jug, decorated jug, bowl, Topf.
158	" " " " "

Cluster 4

<u>Grave No.</u>	<u>Contents</u>
3	Decorated Bell Beaker, jug.
39	" " " "
72	" " " "
113	" " " "
134	" " " "
11	Decorated Bell Beaker, jug, bowl.
49	" " " " "
55	" " " " "
152	" " " " "
74	" " " " "
98	" " " " "
140	" " " " "
48	Decorated Bell Beaker, jug, bowl, Topf.
112	" " " " " "
193	Decorated Bell Beaker, jug, bowl, urn.
111	Decorated Bell Beaker, undecorated Bell Beaker, jug, bowl.
159	Decorated Bell Beaker, undecorated Bell Beaker, jug, bowl, wrist-guard.
30	Decorated Bell Beaker, jug, V-perforated button.
64	Decorated Bell Beaker, jug, bowl, V-perforated button.
137	Decorated Bell Beaker, jug, Topf, V-perforated button.

Fig. 5.5 (continued)

Cluster 5

<u>Grave No.</u>	<u>Contents</u>
12	Jug
14	"
28	"
183	"
34	"
50	"
51	"
53	"
77	"
80	"
95	"
100	"
106	"
163	"
173	"
174	"
52	Jug, polypod bowl.
107	" " "
176	" " "
117	Jug, V-perforated button.
160	Jug, polypod bowl, V-perforated button.

Cluster 6

<u>Grave No.</u>	<u>Contents</u>
9	Jug, bowl, vessel.
177	Bowl, vessel.
185	Jug, vessel.

Cluster 7

<u>Grave No.</u>	<u>Contents</u>
36	Jug, arrowhead.
40	Jug, bowl, arrowhead.
76	Decorated Bell Beaker, jug, bowl, arrowhead, wrist-guard, blade.
130	Decorated Bell Beaker, jug, bowl, arrowhead, pendant.
73	Jug, bowl, arrowhead, flake, blade.

Fig. 5.5 (continued)

Cluster 7 (continued)

<u>Grave No.</u>	<u>Contents</u>
86	Jug, bowl, arrowhead, flake, wrist-guard, animal bones, blade, scraper.
105	Jug, bowl, arrowhead, copper dagger, wrist-guard, bone awl, animal bones blade.
118	Jug, arrowhead, copper dagger, wrist-guard, animal bones, blade.

Cluster 8

<u>Grave No.</u>	<u>Contents</u>
67	Jug, arrowhead, flake, awl, boar's tusk.
154	Jug, decorated jug, bowl, flake, pendant, copper dagger.
16	Decorated Bell Beaker, jug, flake, awl, blade.
79	Jug, blade.
125	Decorated Bell Beaker, jug, blade.
35	Jug, Topf, blade, sherds.

Cluster 9

<u>Grave No.</u>	<u>Contents</u>
66	Decorated Bell Beaker, jug, handled Topf, arrowhead, flake.
71	Decorated Bell Beaker, jug, handled Topf.
200	" " " " " "
132	Jug, handled Topf.
143	Jug, handled Topf, amphora.
116	Undecorated Bell Beaker, jug, handled Topf, copper awl, bone awl, V-perforated button.
120	Jug, decorated jug, Topf, handled Topf, V-perforated button.
192	Jug, handled Topf, V-perforated button.

Cluster 10

<u>Grave No.</u>	<u>Contents</u>
4	Jug, decorated bowl, animal bones.
63	Jug, decorated bowl.
99	" " "
129	Decorated handled Bell Beaker, jug, decorated bowl.
191	Undecorated Bell Beaker, jug, decorated bowl.
101	Decorated Bell Beaker, jug, decorated bowl, polypod bowl, pendant

Fig. 5.5 (continued)

Cluster 11

<u>Grave No.</u>	<u>Contents</u>
2	Decorated Bell Beaker, jug, bowl, Topf, copper awl, scraper, V-perforated button.
68	Decorated Bell Beaker, Topf, copper awl, copper dagger, V-perforated button, amber button.
136	Decorated Bell Beaker, jug, Topf, copper awl, wrist-guard, V-perforated button, amber button.
69	Jug, bowl, Topf, V-perforated button, amber button, copper sheet.
146	Jug, decorated jug, bowl, Topf, V-perforated button, animal bones.

Cluster 12

<u>Grave No.</u>	<u>Contents</u>
15	Decorated Bell Beaker, bowl, animal bones.
42	Decorated Bell Beaker, bowl.
108	" " " "
196	Decorated Bell Beaker, bowl, copper awl, amber beads.
18	Bowl.
96	"
22	Bowl, blade.
115	Undecorated Bell Beaker, bowl, animal bones.
195	Decorated Bell Beaker, undecorated Bell Beaker, bowl, copper dagger, blade.

Cluster 13

<u>Grave No.</u>	<u>Contents</u>
24	Bowl, urn.
47	" "
83	Bowl, urn, copper awl.
119	Bowl, decorated bowl, handled Topf, urn.
186	Urn.

Cluster 14

<u>Grave No.</u>	<u>Contents</u>
41	Bowl, Topf, handled Topf, flake.
91	Topf.
110	"

Section 11	Section 12
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84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Fig. 5.5 (continued)

Cluster 15

<u>Grave No.</u>	<u>Contents</u>
5	Decorated Bell Beaker, arrowhead, ear-rings.
181	Arrowhead.
62	Decorated Bell Beaker, decorated bowl, arrowhead, copper dagger.

Cluster 16

<u>Grave No.</u>	<u>Contents</u>
6	Decorated Bell Beaker
7	" " "
178	" " "
10	Decorated Bell Beaker, stone axe.
19	Decorated Bell Beaker, flake.
179	Decorated Bell Beaker, undecorated Bell Beaker.
56	Decorated Bell Beaker, copper dagger, whetstone.
198	Decorated Bell Beaker, copper dagger.
54	Decorated Bell Beaker, decorated jug, decorated bowl.
162	Decorated Bell Beaker, undecorated handled Bell Beaker, decorated bowl.

Cluster 17

<u>Grave No.</u>	<u>Contents</u>
8	Decorated Bell Beaker, jug, flake, copper awl, wrist-guard, sherds.
37	Decorated Bell Beaker, bowl, flake, wrist-guard, sherds, V-perforated button.
45	Decorated Bell Beaker, decorated bowl, Topf, flake, wrist-guard.
44	Decorated Bell Beaker, jug, polypod bowl, arrowhead, stone axe, flake, wrist-guard, scraper, boar's tusk, whetstone.
92	Decorated Bell Beaker, arrowhead, stone axe, flake, copper dagger, wrist-guard, boar's tusk.
114	Decorated Bell Beaker, arrowhead, flake, blade, scraper, boar's tusk.
65	Decorated Bell Beaker, arrowhead, pendant, wrist-guard, boar's tusk.

Fig. 5.5 (continued)

Cluster 17 (continued)

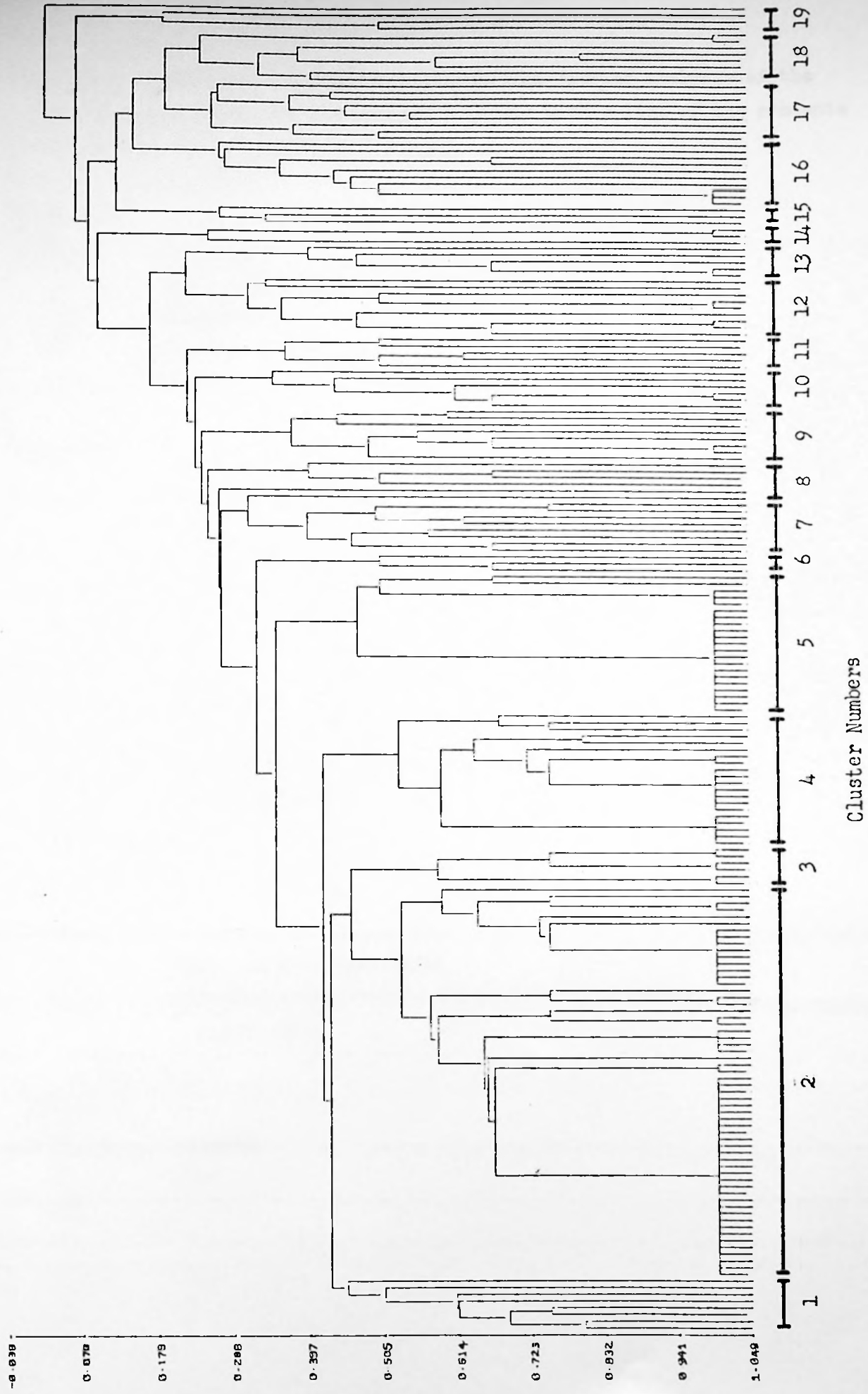
<u>Grave No.</u>	<u>Contents</u>
199	Decorated Bell Beaker, arrowhead, copper awl, copper dagger, wrist-guard.
197	Decorated Bell Beaker, Topf, arrowhead, sherds, scraper.

Cluster 18

<u>Grave No.</u>	<u>Contents</u>
33	Bowl, copper dagger, wrist-guard.
172	Decorated jug, copper dagger, wrist-guard, copper sheet.
70	Decorated Bell Beaker, jug, copper dagger, wrist-guard, blade.
81	Jug, decorated bowl, copper dagger, wrist-guard.
82	Decorated Bell Beaker, decorated bowl, copper dagger, wrist-guard.
93	Decorated Bell Beaker, vessel, stone axe, copper dagger, wrist-guard.
85	Wrist-guard.
189	" "

Cluster 19

<u>Grave No.</u>	<u>Contents</u>
25	Undecorated Bell Beaker, urn.
109	Undecorated Bell Beaker.
138	Undecorated Bell Beaker, undecorated handled Bell Beaker, jug, polypod bowl, amphora.
43	Vessel, amphora.



1900-1901



Figure 5.6 Dendrogram produced by average-link cluster analysis of the relations between Bell Beaker graves, together with a list of the contents of the graves in the clusters. Bohemia.

Cluster 1

<u>Grave No.</u>	<u>Contents</u>
1	Bowl, arrowhead.
107	Arrowhead.
105	Arrowhead, amphora.
192	Handled Topf, arrowhead, scraper.

Cluster 2

<u>Grave No.</u>	<u>Contents</u>
2	Jug, sherds.
119	" "
94	Sherds.

Cluster 3

<u>Grave No.</u>	<u>Contents</u>
3	Jug, decorated jug.
131	Jug, decorated jug, polypod bowl.
8	Jug, polypod bowl.
49	" " "
162	" " "
163	" " "
194	" " "
159	Jug, polypod bowl, Topf.
164	Decorated Bell Beaker, undecorated Bell Beaker, jug, polypod bowl.

Cluster 4

<u>Grave No.</u>	<u>Contents</u>
27	Jug.
41	"
52	"
121	"
129	"
111	"

TABLE 1. Summary of the results of the analysis of variance for the different factors of the experiment. The values in parentheses are the degrees of freedom.

Source of variation	Sum of squares	Mean square	F	P
Replication	1.2	0.4	1.2	0.3
Treatment	10.8	3.6	10.8	0.01
Error	18.0	0.6		
Total	30.0			

Source of variation	Sum of squares	Mean square	F	P
Replication	1.2	0.4	1.2	0.3
Treatment	10.8	3.6	10.8	0.01
Error	18.0	0.6		
Total	30.0			

Source of variation	Sum of squares	Mean square	F	P
Replication	1.2	0.4	1.2	0.3
Treatment	10.8	3.6	10.8	0.01
Error	18.0	0.6		
Total	30.0			

TABLE 2. Summary of the results of the analysis of variance for the different factors of the experiment. The values in parentheses are the degrees of freedom.

Source of variation	Sum of squares	Mean square	F	P
Replication	1.2	0.4	1.2	0.3
Treatment	10.8	3.6	10.8	0.01
Error	18.0	0.6		
Total	30.0			

Fig. 5.6 (continued)

Cluster 4 (continued)

<u>Grave No.</u>	<u>Contents</u>
112	Jugs.
113	"
115	"
117	"
120	"
54	"
62	"
63	"
64	"
76	"
81	"
88	"
90	"
96	"

Cluster 5

<u>Grave No.</u>	<u>Contents</u>
5	Undecorated handled Bell Beaker, jug, bowl, stone axe,
67	Undecorated handled Bell Beaker, jug, bowl.
87	" " " " " "
66	Undecorated handled Bell Beaker, jug.
69	" " " " "
155	" " " " "
6	Jug, bowl.
13	" "
14	" "
31	" "
34	" "
40	" "
45	" "
48	" "
50	" "
184	" "
181	" "
195	" "
51	" "
109	" "

Year	Amount
1910	100
1911	100
1912	100
1913	100
1914	100
1915	100
1916	100
1917	100
1918	100
1919	100
1920	100
1921	100
1922	100
1923	100
1924	100
1925	100
1926	100
1927	100
1928	100
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1930	100

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1914	100
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2100	100

Fig. 5.6 (continued)

Cluster 5 (continued)

<u>Grave No.</u>	<u>Contents</u>
124	Jug, bowl.
127	" "
128	" "
136	" "
137	" "
138	" "
142	" "
168	" "
169	" "
170	" "
173	" "
174	" "
176	" "
177	" "
179	" "
180	" "
44	Jug, bowl, animal bones.
77	Jug, bowl, animal bones, blade.
7	Decorated Bell Beaker, jug, bowl.
24	" " " " "
104	Decorated Bell Beaker, jug, bowl, flake.
153	Decorated Bell Beaker, undecorated Bell Beaker, jug, bowl.
36	Undecorated handled Bell Beaker, jug, bowl, Topf.
68	" " " " " " "
185	Jug, bowl, Topf.
193	" " "
187	Jug, bowl, decorated bowl, Topf.
47	Jug, bowl, V-perforated button, copper sheet.

Cluster 6

<u>Grave No.</u>	<u>Contents</u>
30	Undecorated handled Bell Beaker, jug, bowl, arrowhead, blade.
154	Undecorated Bell Beaker, jug, bowl, scraper blade.
165	Jug, bowl, blade.

1917

1918

Year	1917	1918
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
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94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

Fig. 5.6 (continued)

Cluster 6 (continued)

<u>Grave No.</u>	<u>Contents</u>
80	Jug, bowl, arrowhead, wrist-guard, blade.
196	Jug, bowl, handled Topf, pendant, wrist-guard, blade.

Cluster 7

<u>Grave No.</u>	<u>Contents</u>
72	Undecorated Bell Beakers, jug.
82	Undecorated Bell Beaker, undecorated handled Bell Beaker, jug, bowl.
123	Undecorated Bell Beaker, jug, bowl.
157	Undecorated Bell Beaker, undecorated handled Bell Beaker, jug, blade.

Cluster 8

<u>Grave No.</u>	<u>Contents</u>
18	Jug, vessel.
58	" "
110	Jug, bowl, vessel.
147	Jug, bowl, handled Topf, vessel, bone awl.

Cluster 9

<u>Grave No.</u>	<u>Contents</u>
38	Jug, bowl, wrist-guard.
197	Jug, bowl, wrist-guard, copper sheet.
145	Bowl, wrist-guard.
150	Jug, bowl, flake, wrist-guard, boar's tusk.
39	Jug, wrist-guard.
182	Jug, polypod bowl, wrist-guard.
61	Decorated Bell Beaker, bowl, stone axe, wrist-guard.
198	Decorated Bell Beaker, decorated handled Bell Beaker, jug, bowl, wrist-guard.
101	Decorated Bell Beaker, jug, bowl, arrowhead, copper dagger, wrist-guard, scraper.

Fig. 5.6 (continued)

Cluster 10

<u>Grave No.</u>	<u>Contents</u>
17	Jug, bowl, arrowhead, flake, copper dagger.
79	Jug, bowl, arrowhead, flake, bone pendant, blade.

Cluster 11

<u>Grave No.</u>	<u>Contents</u>
55	Undecorated handled Bell Beaker, handled Topf.
83	Undecorated Bell Beaker, undecorated handled Bell Beaker, bowl, handled Topf.
60	Bowl, handled Topf.
122	" " "
141	Jug, bowl, handled Topf.
116	Handled Topf.
190	Jug, handled Topf.
191	" " "

Cluster 12

<u>Grave No.</u>	<u>Contents</u>
10	Undecorated handled Bell Beaker, jug, Topf, copper awl, copper dagger, animal bones, blade.
19	Jug, copper dagger, blade.
49	Undecorated handled Bell Beaker, jug, bone pendant, copper dagger, wrist-guard, blade.
20	Decorated Bell Beaker, jug, vessel, arrowhead, wrist-guard, blade.
108	Decorated Bell Beaker, jug, wrist-guard, blade.
126	Decorated Bell Beaker, undecorated Bell Beaker, jug, arrowhead, stone axe, blade, whetstone.
156	Undecorated Bell Beaker, jug, arrowhead, wrist-guard, amphora.

Cluster 13

<u>Grave No.</u>	<u>Contents</u>
4	Decorated Bell Beaker, undecorated handled Bell Beaker, bowl.
146	Decorated Bell Beaker, bowl.
158	Undecorated handled Bell Beaker, bowl, amphora.

Country	Year	Value
Algeria	1970	100
Algeria	1971	100
Algeria	1972	100
Algeria	1973	100
Algeria	1974	100
Algeria	1975	100
Algeria	1976	100
Algeria	1977	100
Algeria	1978	100
Algeria	1979	100
Algeria	1980	100
Algeria	1981	100
Algeria	1982	100
Algeria	1983	100
Algeria	1984	100
Algeria	1985	100
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Algeria	2013	100
Algeria	2014	100
Algeria	2015	100
Algeria	2016	100
Algeria	2017	100
Algeria	2018	100
Algeria	2019	100
Algeria	2020	100
Algeria	2021	100
Algeria	2022	100
Algeria	2023	100
Algeria	2024	100
Algeria	2025	100
Algeria	2026	100
Algeria	2027	100
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Algeria	2036	100
Algeria	2037	100
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Algeria	2039	100
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Algeria	2041	100
Algeria	2042	100
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Algeria	2058	100
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Algeria	2060	100
Algeria	2061	100
Algeria	2062	100
Algeria	2063	100
Algeria	2064	100
Algeria	2065	100
Algeria	2066	100
Algeria	2067	100
Algeria	2068	100
Algeria	2069	100
Algeria	2070	100
Algeria	2071	100
Algeria	2072	100
Algeria	2073	100
Algeria	2074	100
Algeria	2075	100
Algeria	2076	100
Algeria	2077	100
Algeria	2078	100
Algeria	2079	100
Algeria	2080	100
Algeria	2081	100
Algeria	2082	100
Algeria	2083	100
Algeria	2084	100
Algeria	2085	100
Algeria	2086	100
Algeria	2087	100
Algeria	2088	100
Algeria	2089	100
Algeria	2090	100
Algeria	2091	100
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Algeria	2094	100
Algeria	2095	100
Algeria	2096	100
Algeria	2097	100
Algeria	2098	100
Algeria	2099	100
Algeria	2100	100

Fig. 5.6 (continued)

Cluster 13 (continued)

<u>Grave No.</u>	<u>Contents</u>
189	Undecorated handled Bell Beaker, bowl.
16	Bowl.
42	"
70	"
75	"
132	"
183	"
186	Bowl, blade.
12	Bowl, bone pendant.
140	Bowl, bone pendant, wrist-guard,
33	Decorated handled Bell Beaker, bowl, amphora.
144	Bowl, Topf, vessel.
178	Bowl, Topf.
37	Topf.

Cluster 14

<u>Grave No.</u>	<u>Contents</u>
9	Undecorated Bell Beaker, bowl, animal bones.
133	Bowl, animal bones.
167	Undecorated Bell Beaker, undecorated handled Bell Beaker, bowl, animal bones, amphora.
130	Bowl, handled Topf, copper awl, animal bones, copper sheet.
134	Bowl, animal bones, copper sheet.
43	Animal bones sherds, sherds.
166	Animal bones.

Cluster 15

<u>Grave No.</u>	<u>Contents</u>
21	Undecorated Bell Beaker, bowl, vessel.
22	Undecorated Bell Beaker, bowl, vessel, blade.
26	Decorated Bell Beaker, undecorated Bell Beaker.
71	Undecorated Bell Beaker.
106	Decorated Bell Beaker, undecorated Bell Beaker, flake, amphora.
118	Decorated Bell Beaker, undecorated Bell Beaker, bowl, amphora.

Page 10 (continued)

Page 11 (continued)

Page No.	Comments
10	Continued from Page 9
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Page 12

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Page 13

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Fig.5.6 (continued)

Cluster 16

<u>Grave No.</u>	<u>Contents</u>
23	Decorated Bell Beaker, jug.
56	" " " "
65	" " " "
59	Decorated Bell Beaker, jug, stone axe.
151	Decorated Bell Beaker, jug, decorated bowl, bone pendant.
25	Decorated Bell Beaker.
53	" " "
57	" " "
84	" " "
103	" " "
172	" " "
95	Decorated Bell Beaker, sherds.
78	Decorated Bell Beaker, ear-rings, blade.
92	Decorated Bell Beaker, jug, copper dagger, wrist-guard, ear-rings.
125	Decorated Bell Beaker, copper dagger, ear-rings.
29	Decorated Bell Beaker, vessel, flake.
32	Decorated Bell Beaker, vessel, copper awl, ear-rings, scraper.

Cluster 17

<u>Grave No.</u>	<u>Contents</u>
35	Copper dagger, wrist-guard.
91	Undecorated handled Bell Beaker, copper dagger, wrist-guard.
74	Wrist-guard.
139	" "
86	Decorated Bell Beaker, copper dagger, amber buttons.
161	Decorated Bell Beaker, decorated handled Bell Beaker, decorated jug, arrowhead, flake, wrist-guard, amber buttons.

Cluster 18

<u>Grave No.</u>	<u>Contents</u>
89	Undecorated handled Bell Beaker.
100	" " " "
48	" " " "

Fig. 5.6 (continued)

Cluster 18 (continued)

<u>Grave No.</u>	<u>Contents</u>
99	Undecorated handled Bell Beaker, stone axe.
102	Undecorated handled Bell Beaker, scraper.
43	Undecorated handled Bell Beaker, copper awl, bone beads.
152	Undecorated handled Bell Beaker, blade.
188	Decorated Bell Beaker, undecorated handled Bell Beaker, blade.

Cluster 19

<u>Grave No.</u>	<u>Contents</u>
28	Polypod bowl, V-perforated button.
93	V-perforated button.
46	Jug, polypod bowl, arrowhead, V-perforated button, animal bones.
85	Undecorated handled Bell Beaker, polypod bowl, vessel.
175	Polypod bowl.

Other

<u>Grave No.</u>	<u>Contents</u>
114	Decorated bowl.
135	Decorated bowl, V-perforated button.
15	Decorated handled Bell Beaker.
160	Decorated handled Bell Beaker, blade.
98	Flake, sherds.
171	Flake.
11	Decorated jug, animal bones.
97	Decorated jug.
73	Bone awl.

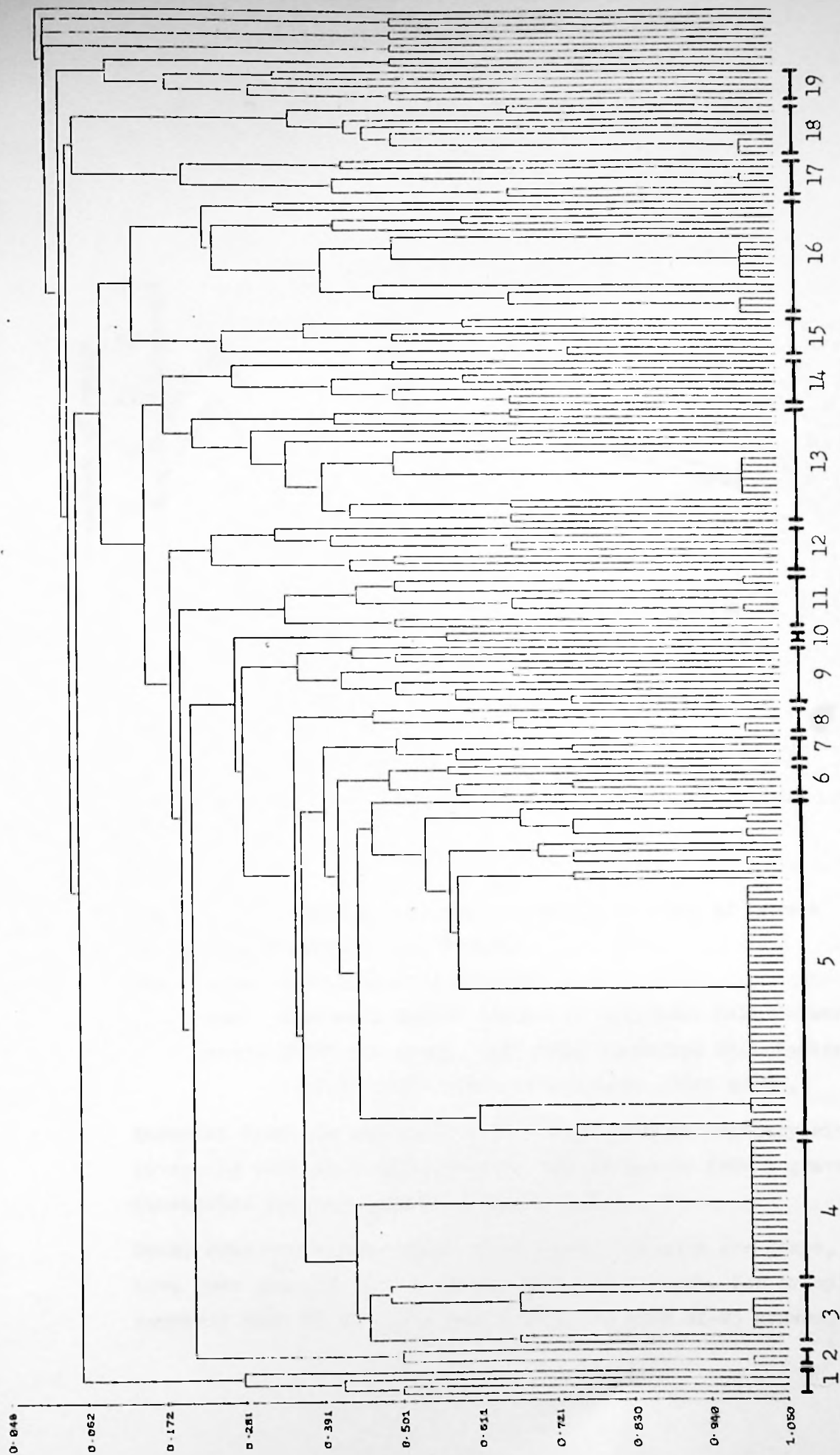
Page 1 of 1

Page 2 of 2

Item	Quantity
1. 1000	1000
2. 2000	2000
3. 3000	3000
4. 4000	4000
5. 5000	5000

Item	Quantity
6. 6000	6000
7. 7000	7000
8. 8000	8000
9. 9000	9000
10. 10000	10000

Item	Quantity
11. 11000	11000
12. 12000	12000
13. 13000	13000
14. 14000	14000
15. 15000	15000
16. 16000	16000
17. 17000	17000
18. 18000	18000
19. 19000	19000
20. 20000	20000



Cluster numbers

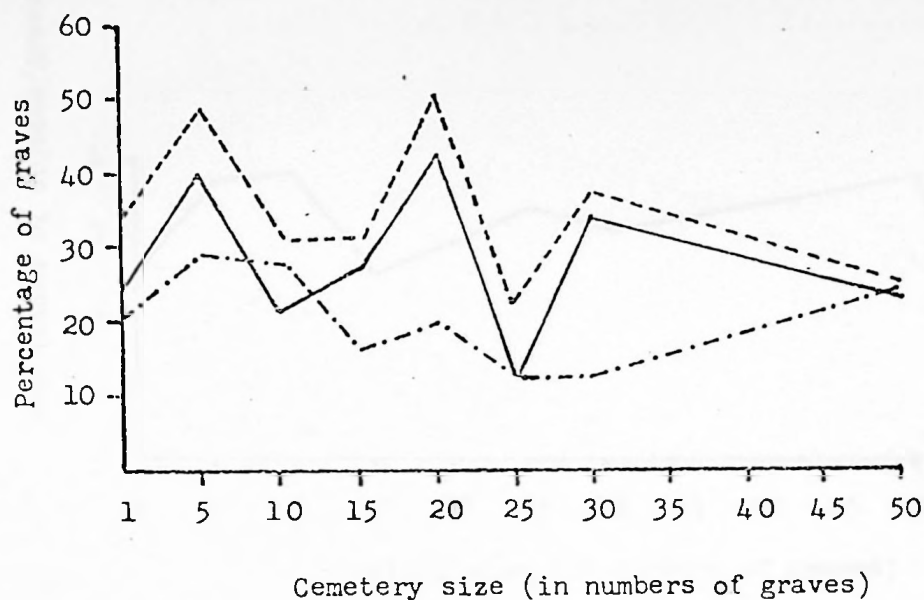


Figure 5.7 Cemetery size against the percentage of graves containing certain items. Moravia.

Key: — Decorated Bell Beakers.
 --- Cluster 1 goods, including decorated Bell Beakers.
 -.-.- Cluster 1 goods, excluding decorated Bell Beakers, together with other non-ceramic grave goods.

Example: from the position of the solid line at cemetery size 1 it can be seen that approximately 25% of graves from 1 grave cemeteries contain decorated Bell Beakers.

Note: cemetery sizes, apart from those with only one grave, have been grouped into 5 grave intervals so that, for example, cemetery size 25 includes all cemeteries with 21-25 graves.



Figure 1. The graph shows the relationship between the two variables. The x-axis represents time, and the y-axis represents the value of the variables. The solid line represents the first variable, and the dashed line represents the second variable. Both variables show a similar trend, with a peak at time 1 and a decline thereafter. The first variable reaches a higher peak value than the second variable.

The data points for the first variable are as follows:

Time	Value
0	0
1	10
2	5

The data points for the second variable are as follows:

Time	Value
0	0
1	5
2	2

It is evident that the first variable has a higher peak value than the second variable, and both variables show a similar trend of increasing and then decreasing over time.

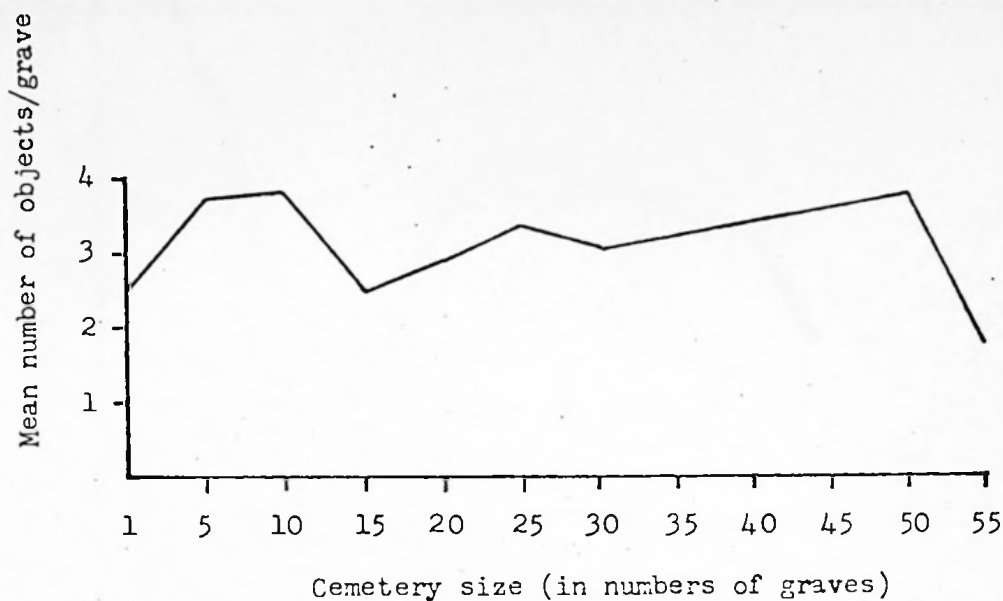


Figure 5.8 Cemetery size against mean number of objects/grave.
Moravia.

Example: from the position of the line at cemetery size 1 it can be seen that the mean number of objects/grave in 1 grave cemeteries is approximately 2.5.

Note: cemetery sizes, apart from those with only one grave, have been grouped into 5 grave intervals so that, for example, cemetery size 25 includes all cemeteries with 21-25 graves.



Figure 1. The percentage of total time spent in each of the four states of the system as a function of the number of processors. The data shows that the percentage of time spent in the 'idle' state decreases as the number of processors increases, while the percentage of time spent in the 'busy' state increases. The percentage of time spent in the 'waiting' state also increases with the number of processors, but at a slower rate than the 'busy' state. The percentage of time spent in the 'error' state remains relatively constant across all processor counts.

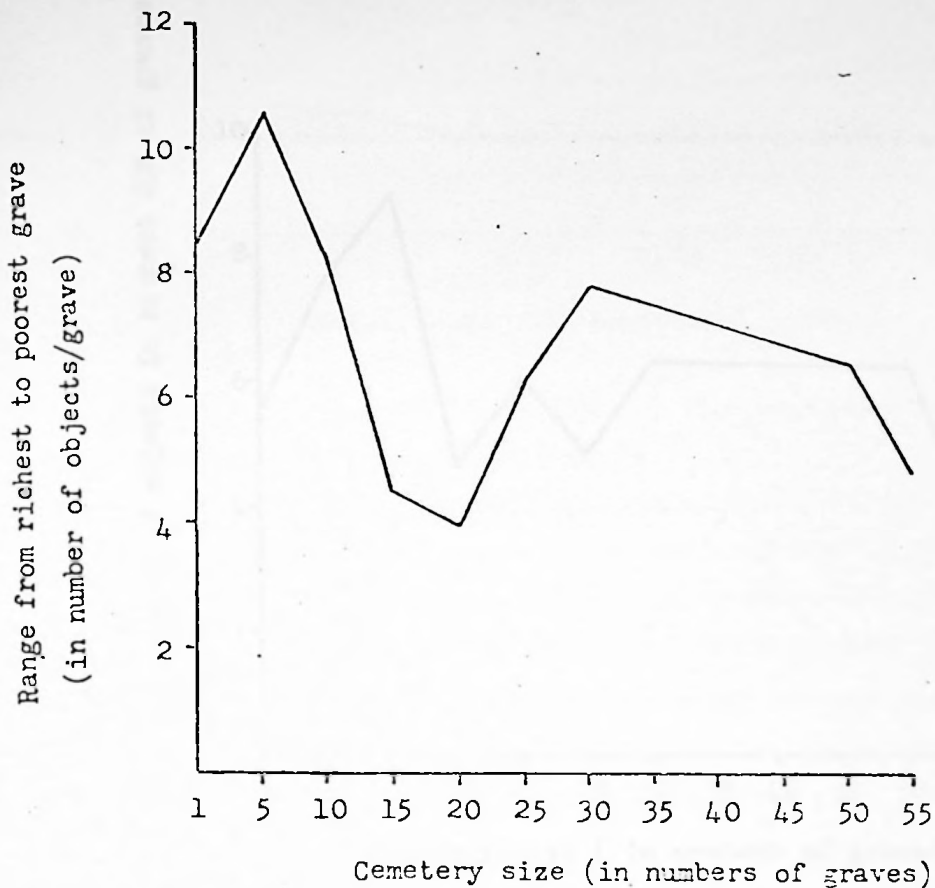


Figure 5.9 Cemetery size against the range from richest to poorest grave measured in terms of number of objects/grave. Moravia.

The range was obtained by taking the mean of the three maximum differences in number of objects/grave for each size category.

Example: from the position of the line at cemetery size 1 it can be seen that the difference between the richest and poorest graves in all 1 grave cemeteries taken together is approximately 8.3 objects.

Note: as above, cemetery sizes have been grouped into 5 grave intervals so that, for example, cemetery size 25 includes all cemeteries with 21-25 graves.



Figure 1. The relationship between the rate of flow and the rate of change of flow. The curve shows that the rate of change of flow is maximum when the rate of flow is about 0.7. The rate of change of flow is zero when the rate of flow is 0 or 1.0.

The curve is a parabola opening downwards. The maximum value of the rate of change of flow is 18, which occurs at a rate of flow of 0.7. The rate of change of flow is zero at a rate of flow of 0 and 1.0.

The curve is symmetric about the vertical line $x = 0.5$. The rate of change of flow is the same for a rate of flow of 0.2 and 0.8, 0.4 and 0.6, and 0.6 and 0.4.

The curve is a continuous function. It is differentiable everywhere. The derivative of the rate of change of flow with respect to the rate of flow is $-20x + 14$.

The curve is a smooth curve. It has no sharp corners or discontinuities. It is a single continuous line.

The curve is a closed curve. It starts at the origin (0,0) and ends at (1.0,10). It does not extend beyond these points.

The curve is a simple curve. It does not cross itself or have any loops. It is a single continuous line.

The curve is a smooth curve. It has no sharp corners or discontinuities. It is a single continuous line.

The curve is a closed curve. It starts at the origin (0,0) and ends at (1.0,10). It does not extend beyond these points.

The curve is a simple curve. It does not cross itself or have any loops. It is a single continuous line.

The curve is a smooth curve. It has no sharp corners or discontinuities. It is a single continuous line.

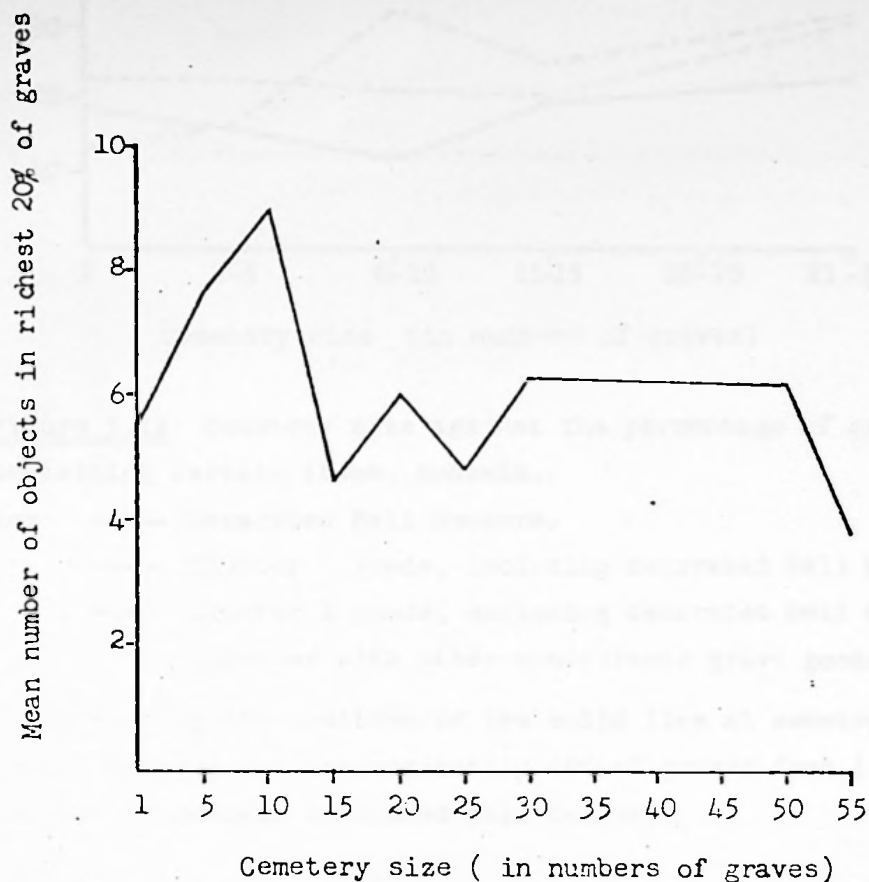


Figure 5.10 Cemetery size against the mean number of objects in the richest 20% of graves. Moravia.

Example: from the position of the line at cemetery size 1 it can be seen that the mean number of objects in the richest 20% of graves from 1 grave cemeteries is 5.5.

Note: as above, cemetery sizes have been grouped into 5 grave intervals so that, for example, cemetery size 25 includes all cemeteries with 21-25 graves.

Figure 1. The effect of the concentration of the solution on the rate of the reaction.



Figure 2. The effect of the temperature on the rate of the reaction.



The effect of the concentration of the solution on the rate of the reaction is shown in Figure 1. The rate of the reaction increases with the concentration of the solution up to a certain point, after which it decreases. This is due to the fact that at low concentrations, the number of collisions between the reacting particles is low, and as the concentration increases, the number of collisions increases, leading to a higher rate of reaction. However, at high concentrations, the particles are so close together that they are unable to move freely, which results in a decrease in the rate of reaction.

The effect of the temperature on the rate of the reaction is shown in Figure 2. The rate of the reaction increases with the temperature up to a certain point, after which it decreases. This is due to the fact that at low temperatures, the particles have less kinetic energy and are therefore less likely to collide with enough energy to overcome the activation energy barrier. As the temperature increases, the particles have more kinetic energy and are more likely to collide with enough energy to overcome the activation energy barrier, leading to a higher rate of reaction. However, at high temperatures, the particles are moving so fast that they are unable to stay in contact long enough to react, which results in a decrease in the rate of reaction.

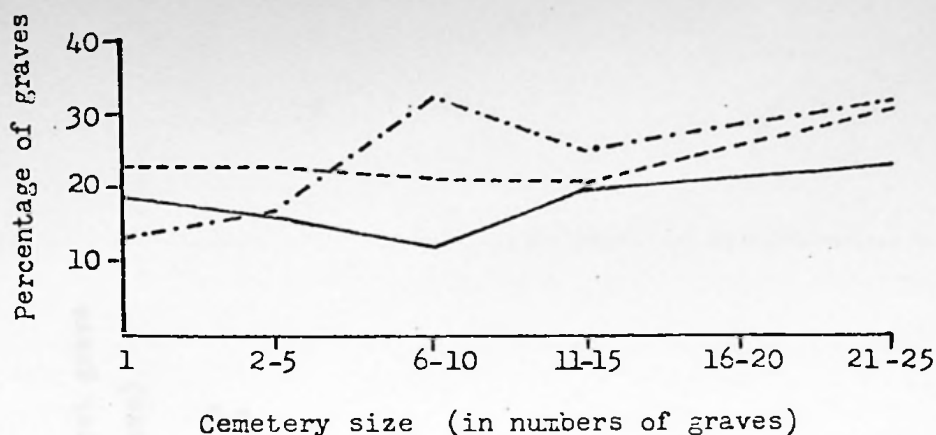


Figure 5.11 Cemetery size against the percentage of graves containing certain items. Bohemia.

Key: — Decorated Bell Beakers.
 --- Cluster 1 goods, including decorated Bell Beakers.
 -.- Cluster 1 goods, excluding decorated Bell Beakers, together with other non-ceramic grave goods.

Example: from the position of the solid line at cemetery size 1 it can be seen that approximately 19% of graves from 1 grave cemeteries contain decorated Bell Beakers.

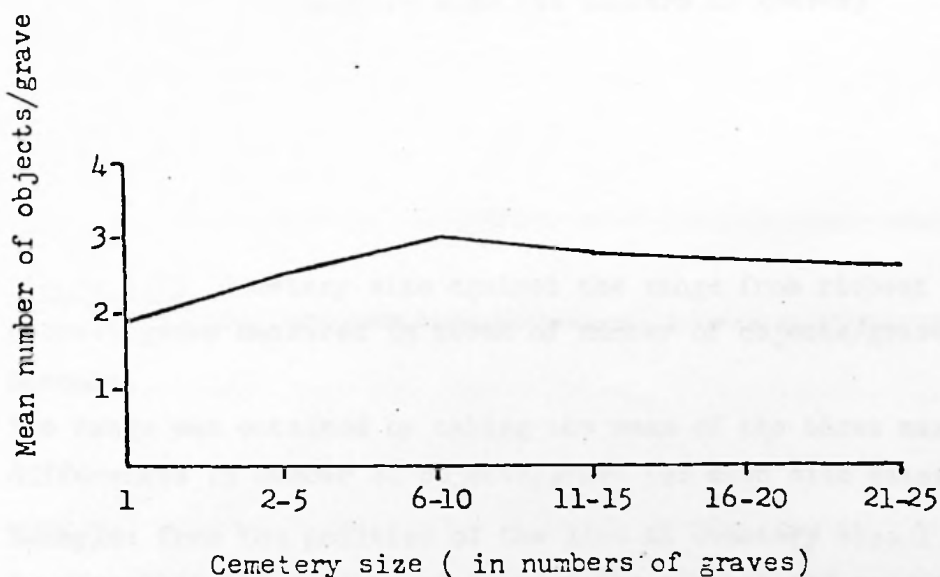


Figure 5.12 Cemetery size against mean number of objects/grave. Bohemia.

Example: from the position of the line at cemetery size 1 it can be seen that the mean number of objects/grave in 1 grave cemeteries is approximately 1.9.



Figure 2.12. Percentage of subjects in different states over time. The solid line represents the percentage of subjects in state 1, the dashed line represents the percentage of subjects in state 2, and the dotted line represents the percentage of subjects in state 3. The x-axis is labeled 'Time' and ranges from 0 to 10. The y-axis is labeled 'Percentage of Subjects' and ranges from 0 to 100.



Figure 2.13. Percentage of subjects in different states over time. The solid line represents the percentage of subjects in state 1. The x-axis is labeled 'Time' and ranges from 0 to 10. The y-axis is labeled 'Percentage of Subjects' and ranges from 0 to 100.

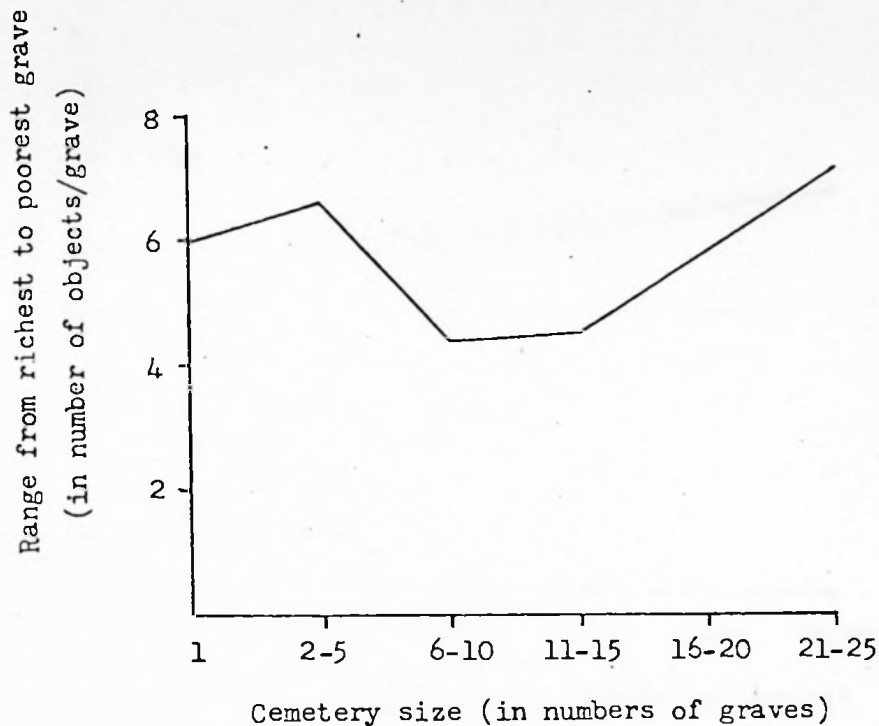


Figure 5.13 Cemetery size against the range from richest to poorest grave measured in terms of number of objects/grave. Bohemia.

The range was obtained by taking the mean of the three maximum differences in number of objects/grave for each size category.

Example: from the position of the line at cemetery size 1 it can be seen that the difference between the richest and poorest graves in all 1 grave cemeteries taken together is 6 objects.

Figure 1. The effect of the number of subjects on the error rate.



Figure 2. The effect of the number of subjects on the error rate.

Figure 2. The effect of the number of subjects on the error rate.

The error rate was calculated by taking the mean of the error rates for each subject. The error rate was calculated for each subject.

Figure 3. The effect of the number of subjects on the error rate.

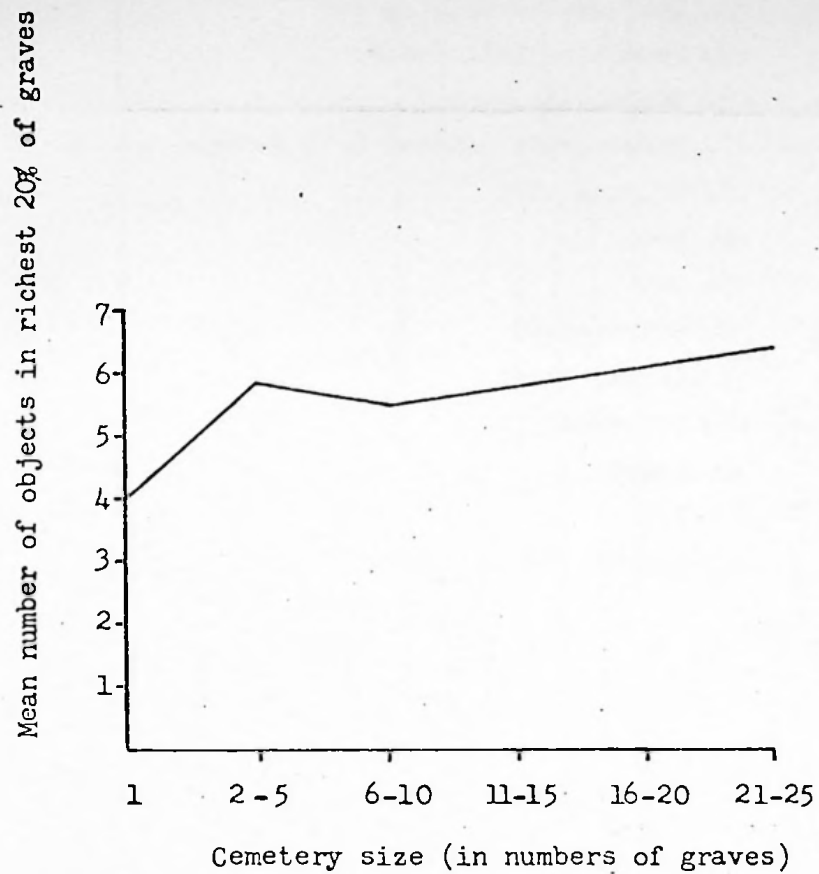
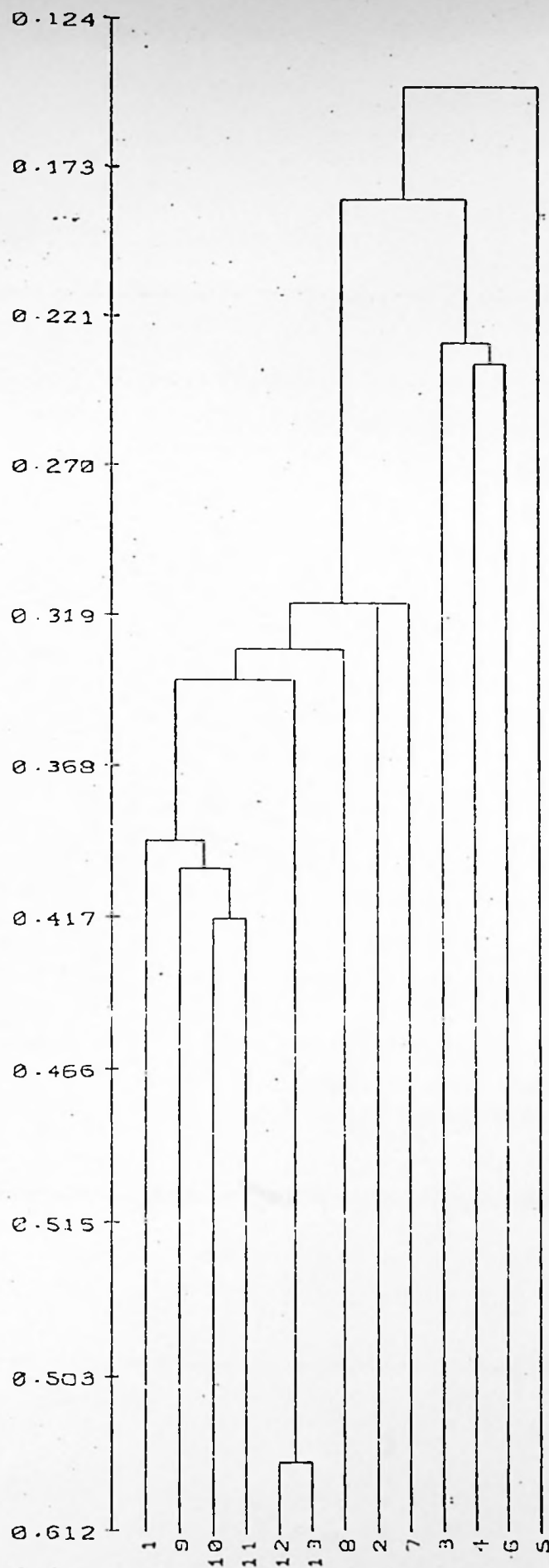


Figure 5.14 Cemetery size against the mean number of objects in the richest 20% of graves. Bohemia.

Example: from the position of the line at cemetery size 1 it can be seen that the mean number of objects in the richest 20% of graves from 1 grave cemeteries is 4.0.

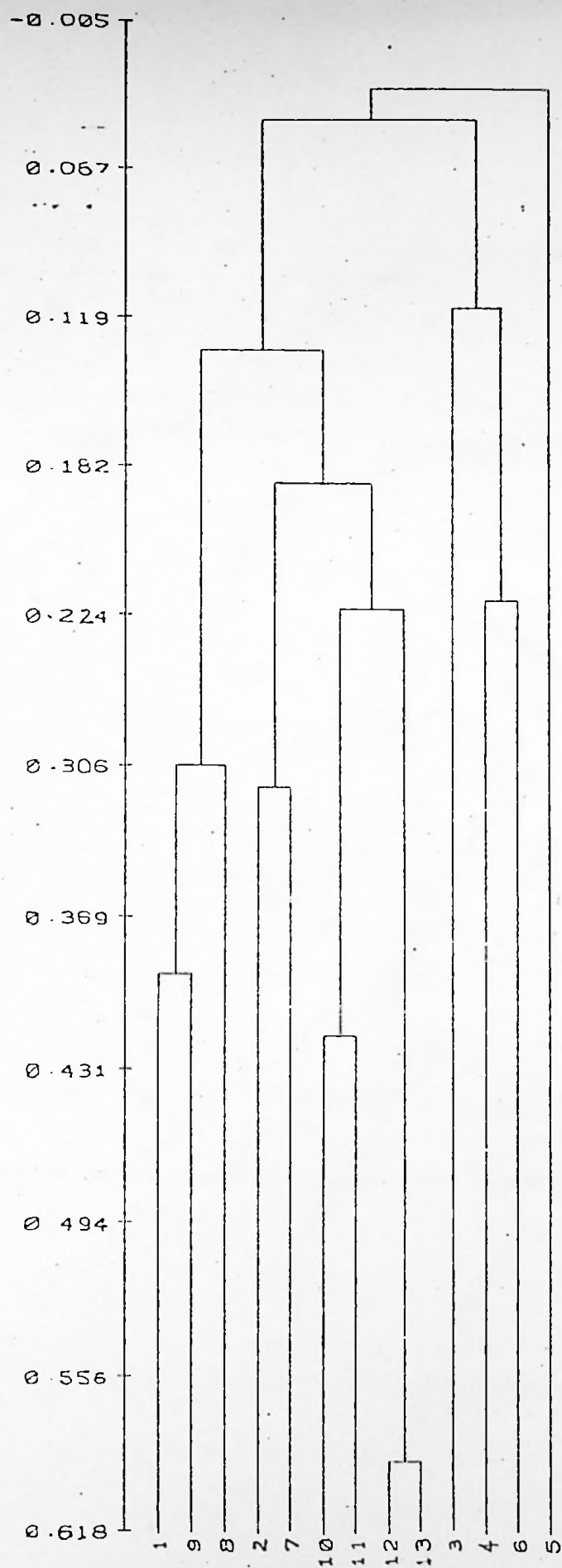
<u>Type</u>	<u>Number of occurrences</u>
1. Undecorated Bell Beaker	48
2. Decorated Bell Beaker	31
3. Vessel	3
4. Undecorated handled Bell Beaker	8
5. Polypod bowl	6
6. Bowl	9
7. Jug	8
8. Wrist-guard	9
9. Animal bones	13
10. Arrowhead	12
11. Blade	8
12. Flake	7
13. Sherds	4

Figure 6.1 Single-link dendrogram of the relationships between objects from Central German Bell Beaker graves. Inter-object associations calculated by means of the Kulczynski coefficient (see p. 35).



<u>Type</u>	<u>Number of occurrences</u>
1. Undecorated Bell Beaker	48
2. Decorated Bell Beaker	31
3. Vessel	3
4. Undecorated handled Bell Beaker	8
5. Polypod bowl	6
6. Bowl	9
7. Jug	8
8. Wrist-guard	9
9. Animal bones	13
10. Arrowhead	12
11. Blade	8
12. Flake	7
13. Sherds	4

Figure 6.2 Average-link dendrogram of the relationships between objects from Central German Bell Beaker graves. Inter-object associations calculated by means of the Kulczynski coefficient (see p. 35).



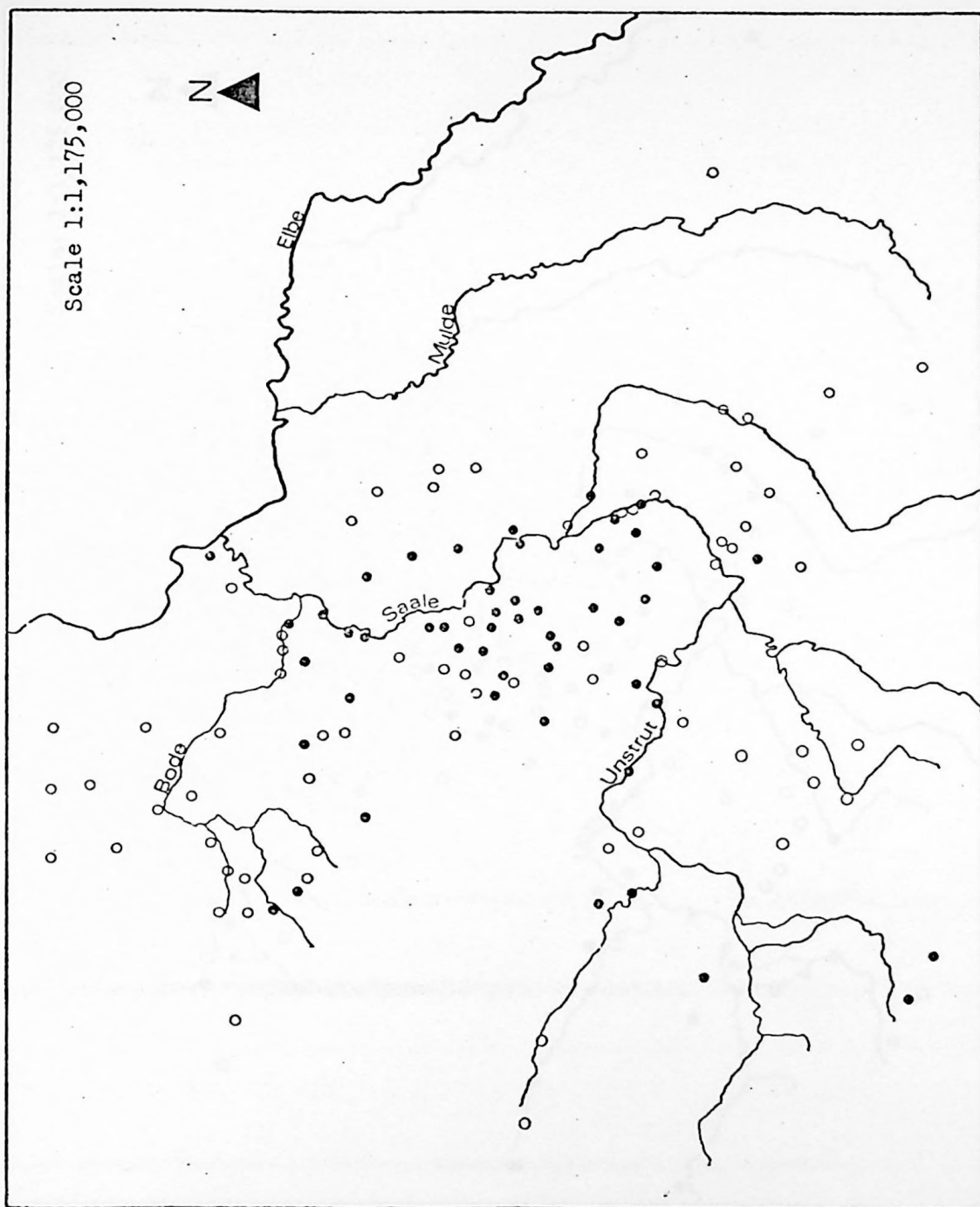


Figure 6.3 Distribution of sites with stone cist graves against grave sites without stone cists. Central Germany.

There are several small streams in the area, but none of them are large enough to be considered as a river. The largest of these is the stream which flows from the north-west corner of the area towards the south-east corner. It is about 1/2 mile long and has a width of about 10 feet. It is a very shallow stream and its water is very clear. It is a very beautiful stream and it is a very pleasant surprise to find it in this area.



Sketch of the area

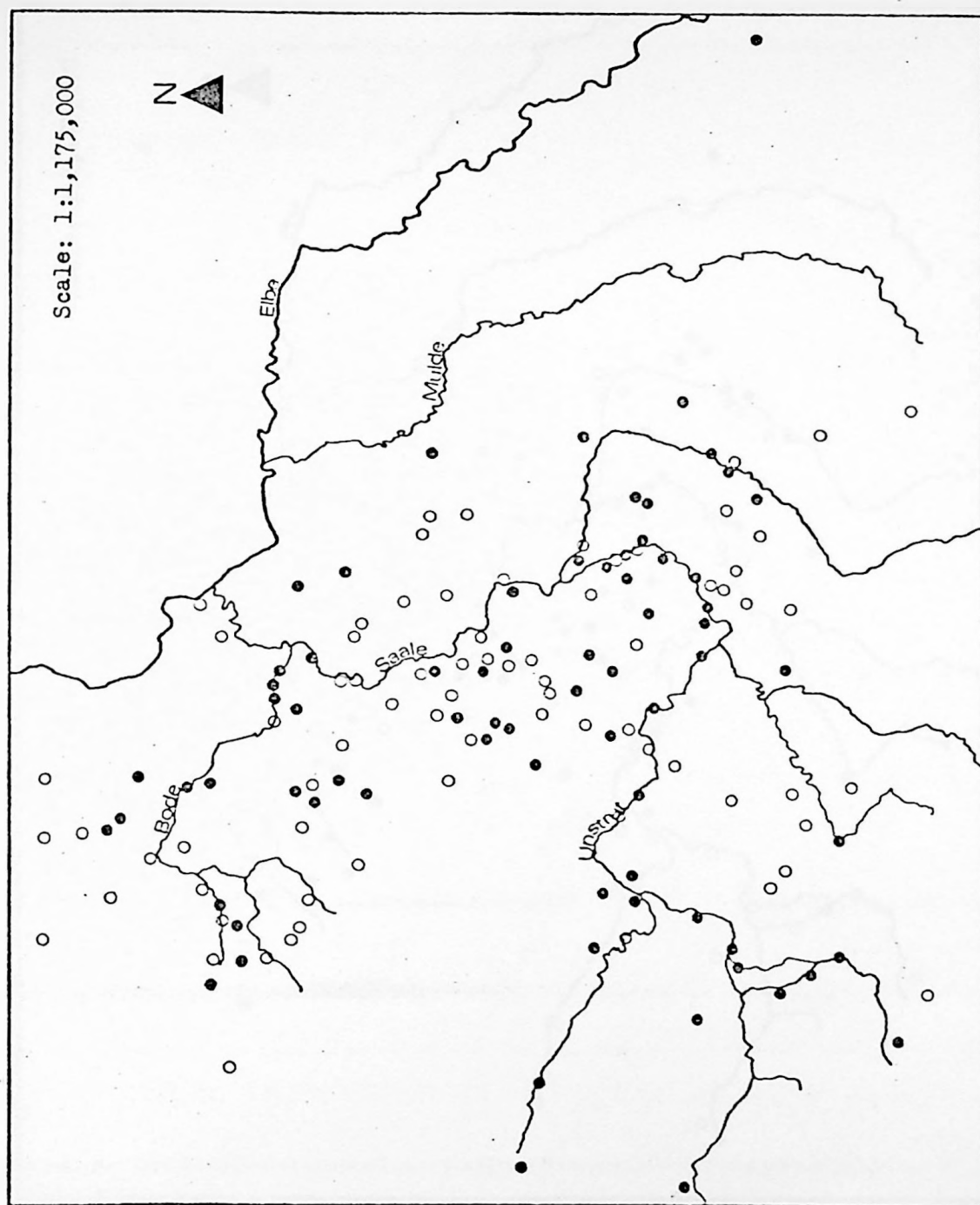


Figure 6.4 Distribution of grave sites with decorated Bell Beakers against those without decorated Bell Beakers. Central Germany.

to allow studies on the impact of
climate change on the distribution of
species.

Understanding the impact of climate change
on the distribution of species is a key
challenge for conservation biology.



Fig. 1. Projected distribution of species X under scenario Y.

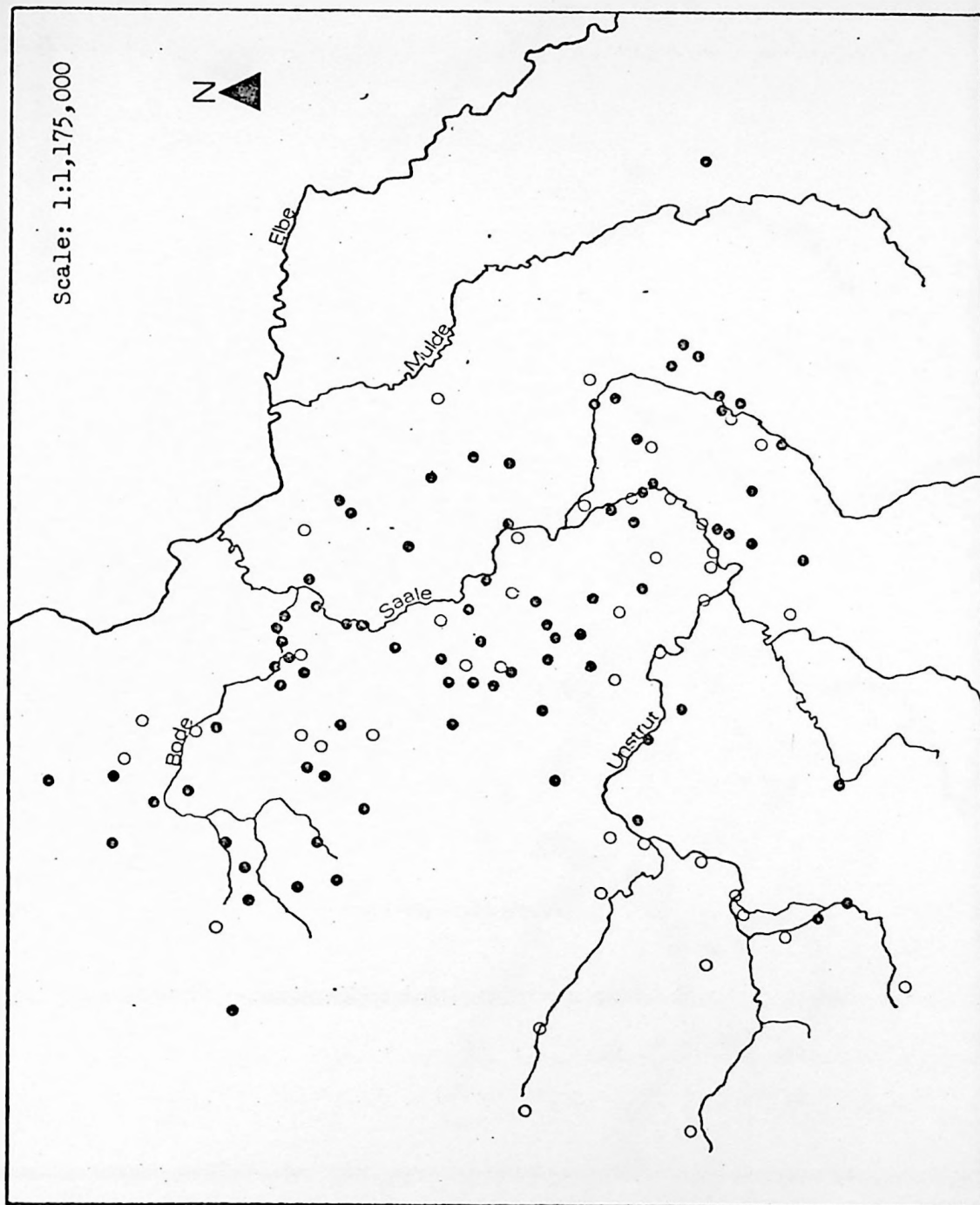


Figure 6.5 Distribution of sites with undecorated Bell Beakers against sites without undecorated Bell Beakers but with decorated Bell Beakers. Central Germany.

Key: ● Sites with undecorated Bell Beakers
○ Sites without undecorated Bell Beakers but with decorated Bell Beakers



Analysis of the geographical data reveals a clear pattern of distribution across the British Isles, with a high concentration of points in the south of England and a more dispersed pattern in the north and west.

The map illustrates the spatial distribution of the data, showing a clear pattern of concentration in the south of England and a more dispersed pattern in the north and west. The network of lines connects various points across the landmasses, highlighting the geographical relationships between different locations.

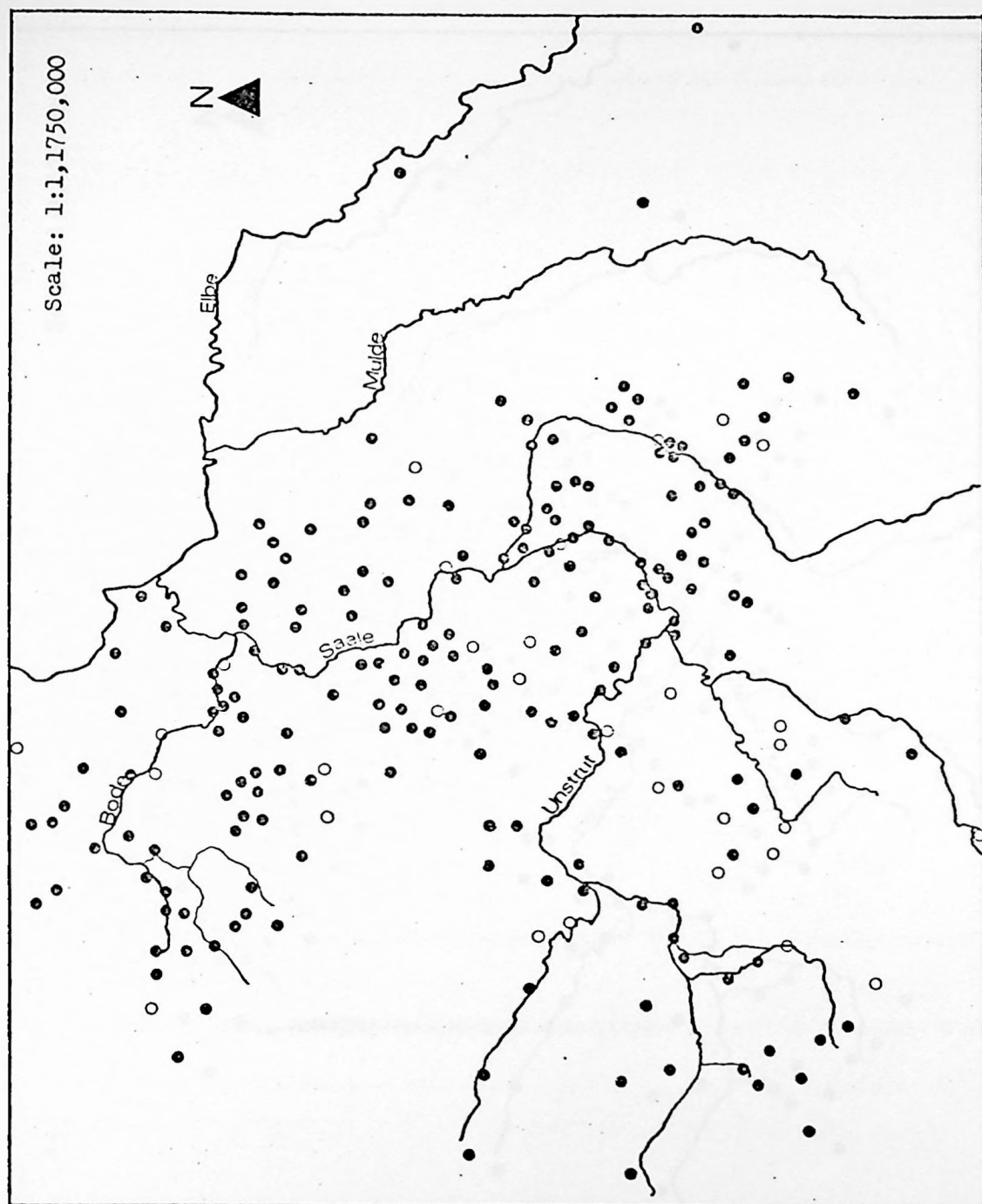


Figure 6.6 Distribution of sites with wrist-guards against all other Bell Beaker sites in Central Germany.

1000 1000 1000 1000 1000 1000 1000 1000 1000 1000
 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000
 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000



1000 1000 1000 1000 1000 1000 1000 1000 1000 1000
 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000
 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

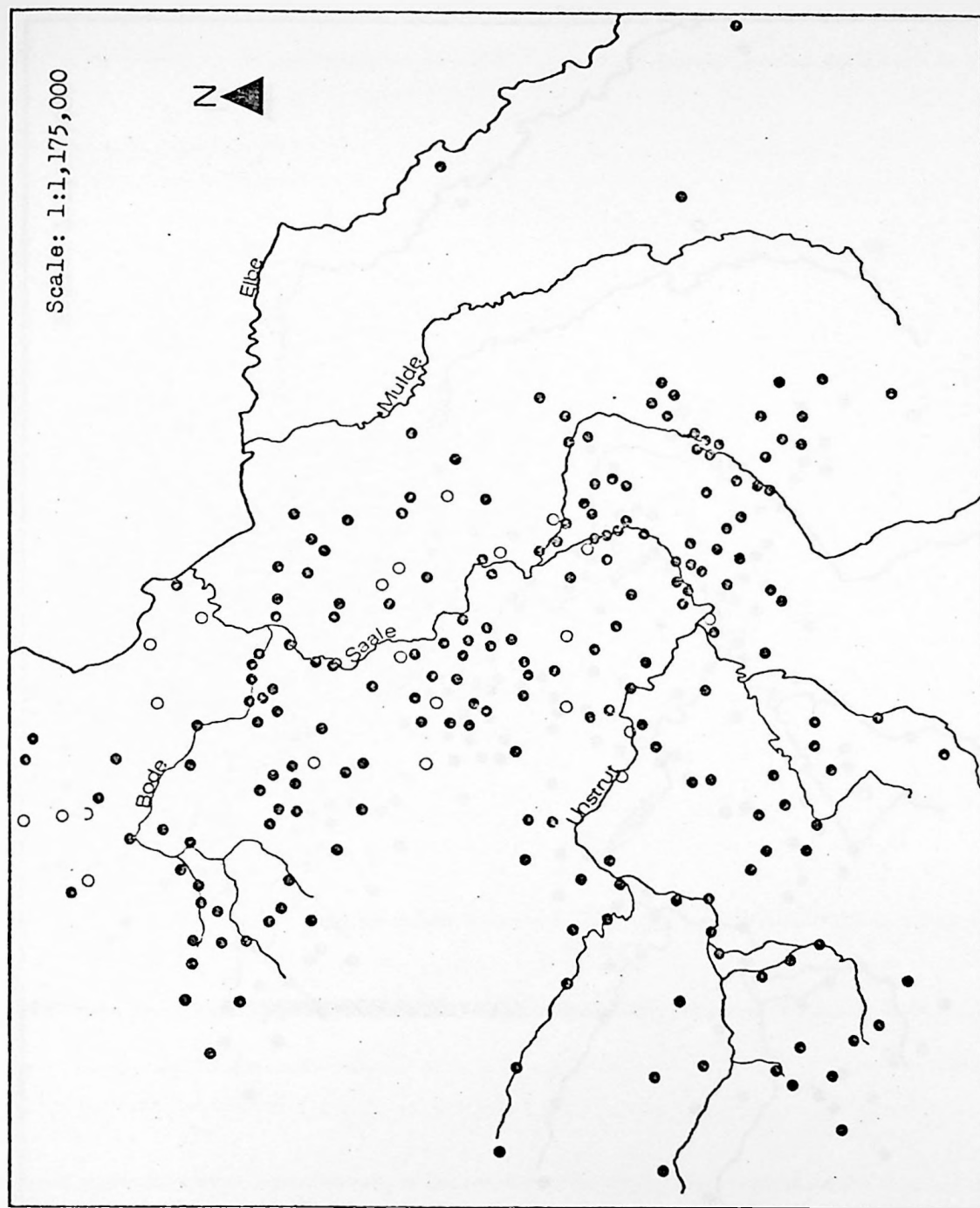


Figure 6.7 Distribution of sites with ordinary bowls against all other Bell Beaker sites in Central Germany.

Map of the study area showing the location of the study sites and the distribution of the study species.

Map of the study area showing the location of the study sites and the distribution of the study species.



Map of the study area showing the location of the study sites and the distribution of the study species.

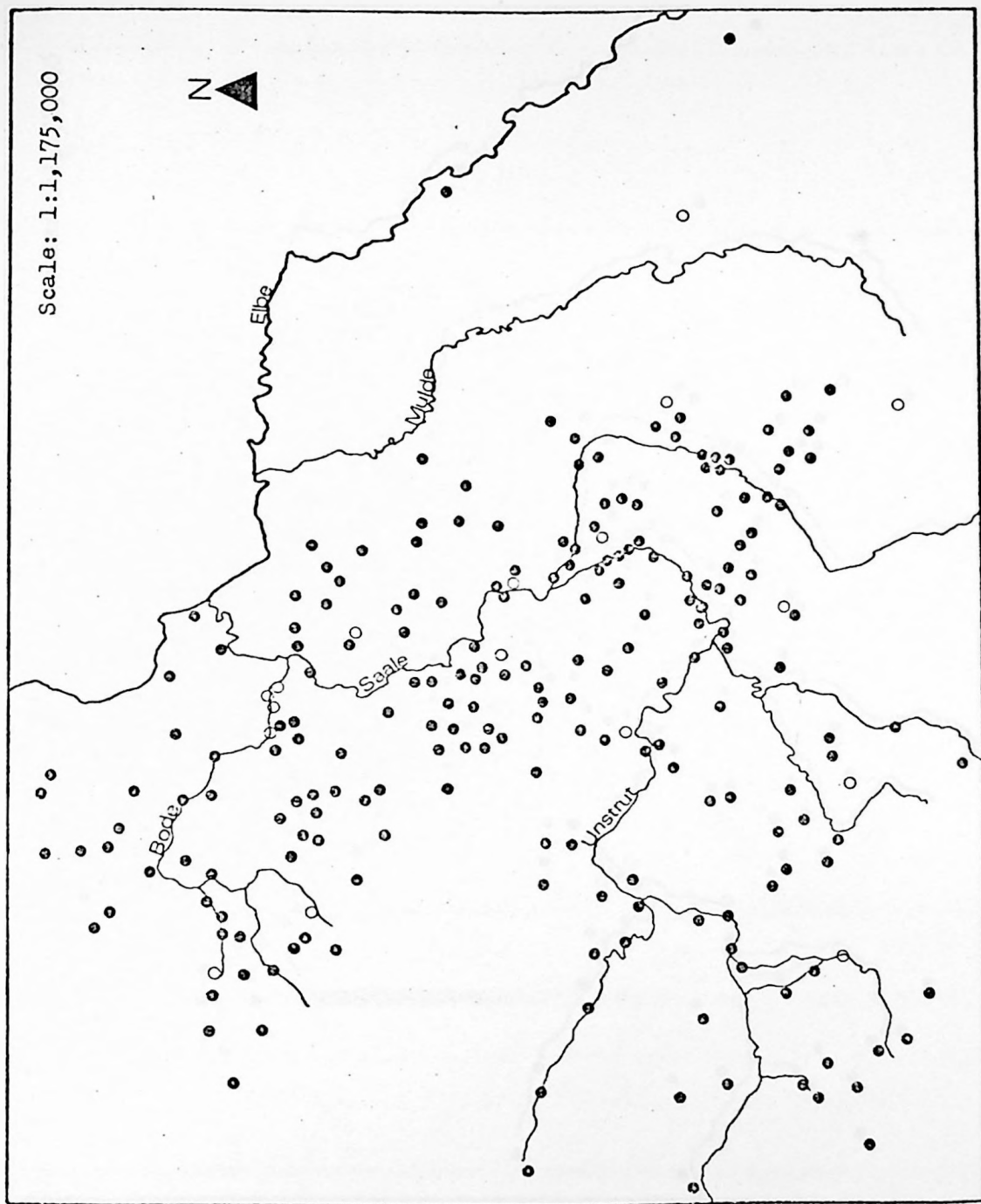


Figure 6.8 Distribution of sites with polypod bowls
 against all other Bell Beaker sites in Central Germany.

Key: Sites with polypod bowls.
 Sites without polypod bowls.

1000' 2000' 3000'



1000' 2000' 3000'

1000' 2000' 3000'

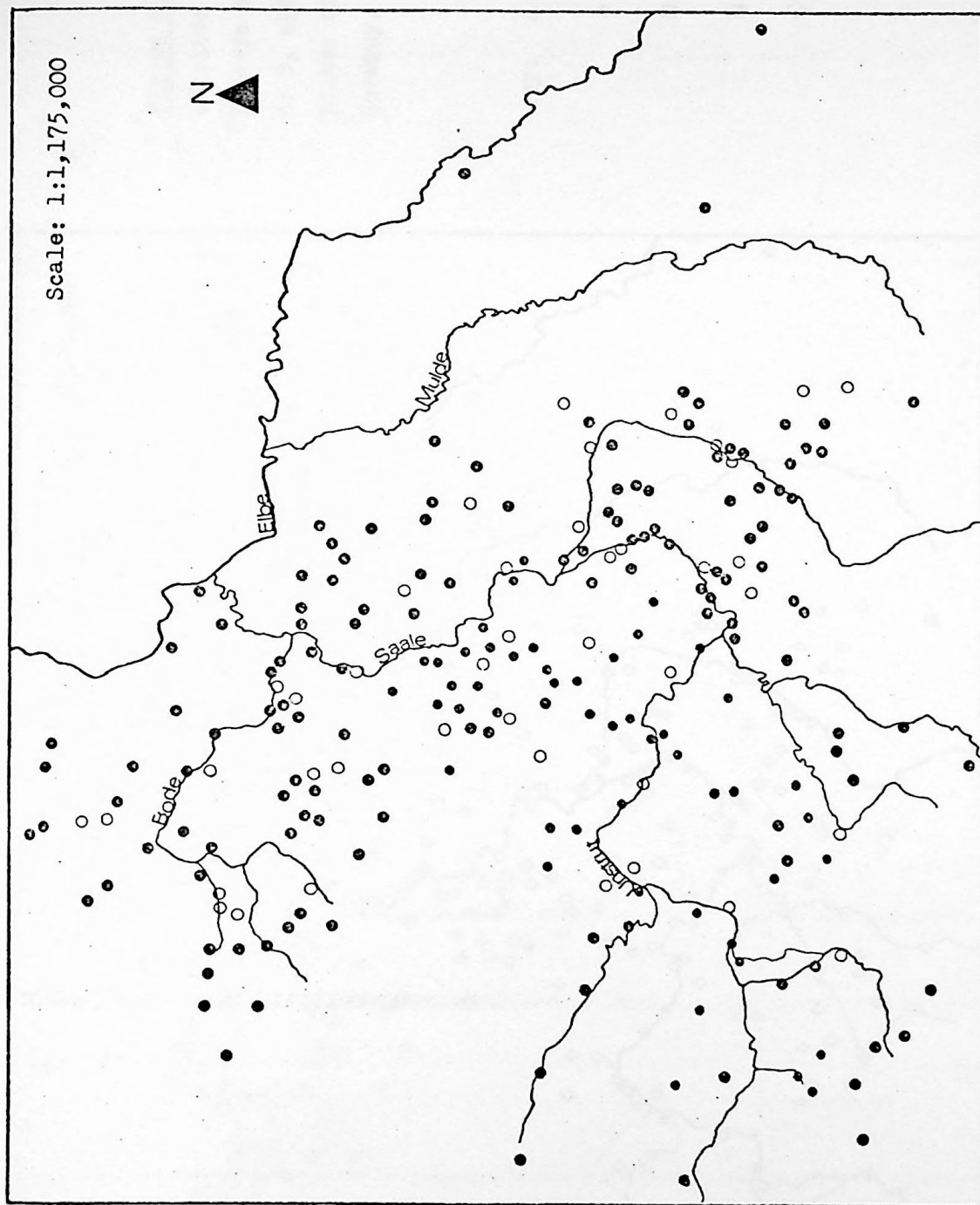


Figure 6.9 Distribution of sites with handled vessels | Key: O Sites with handled vessels
 against all other Bell Beaker sites in Central Germany. ● Sites without handled vessels

Figure 1. Map of the study area showing the location of the study sites (indicated by dots) and the distribution of the study species (indicated by lines).

Figure 2. Map of the study area showing the location of the study sites (indicated by dots) and the distribution of the study species (indicated by lines).



Figure 3. Map of the study area showing the location of the study sites (indicated by dots) and the distribution of the study species (indicated by lines).

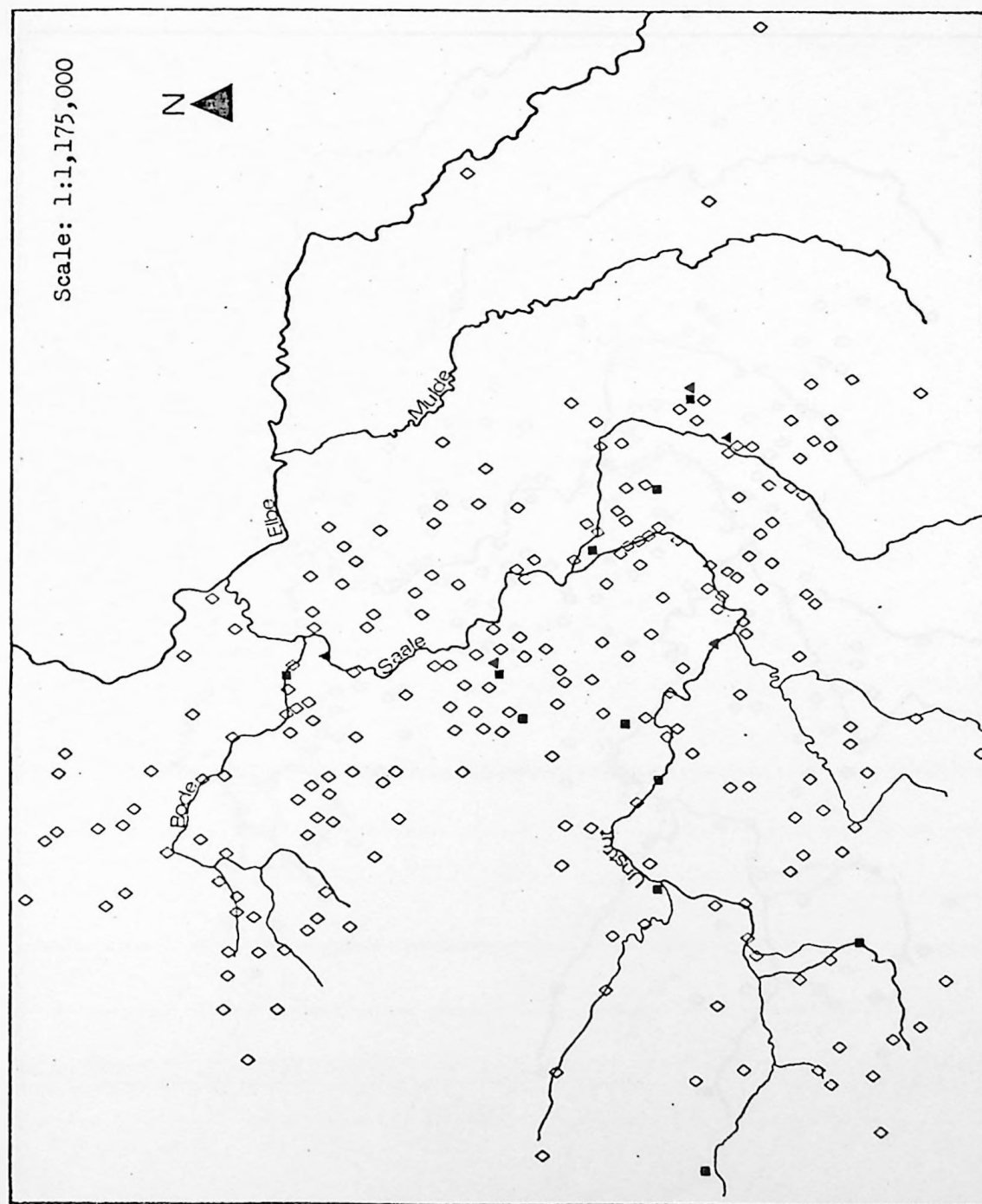
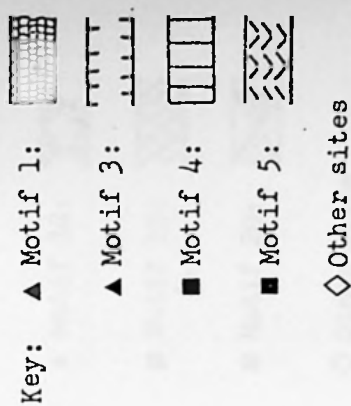


Figure 6.10 Distribution map of sites with decorated Bell Beakers having motifs 1, 3, 4 or 5, against all other Bell Beaker sites in Central Germany.



See also: *Wetland and*

Land Use and

Land Use and

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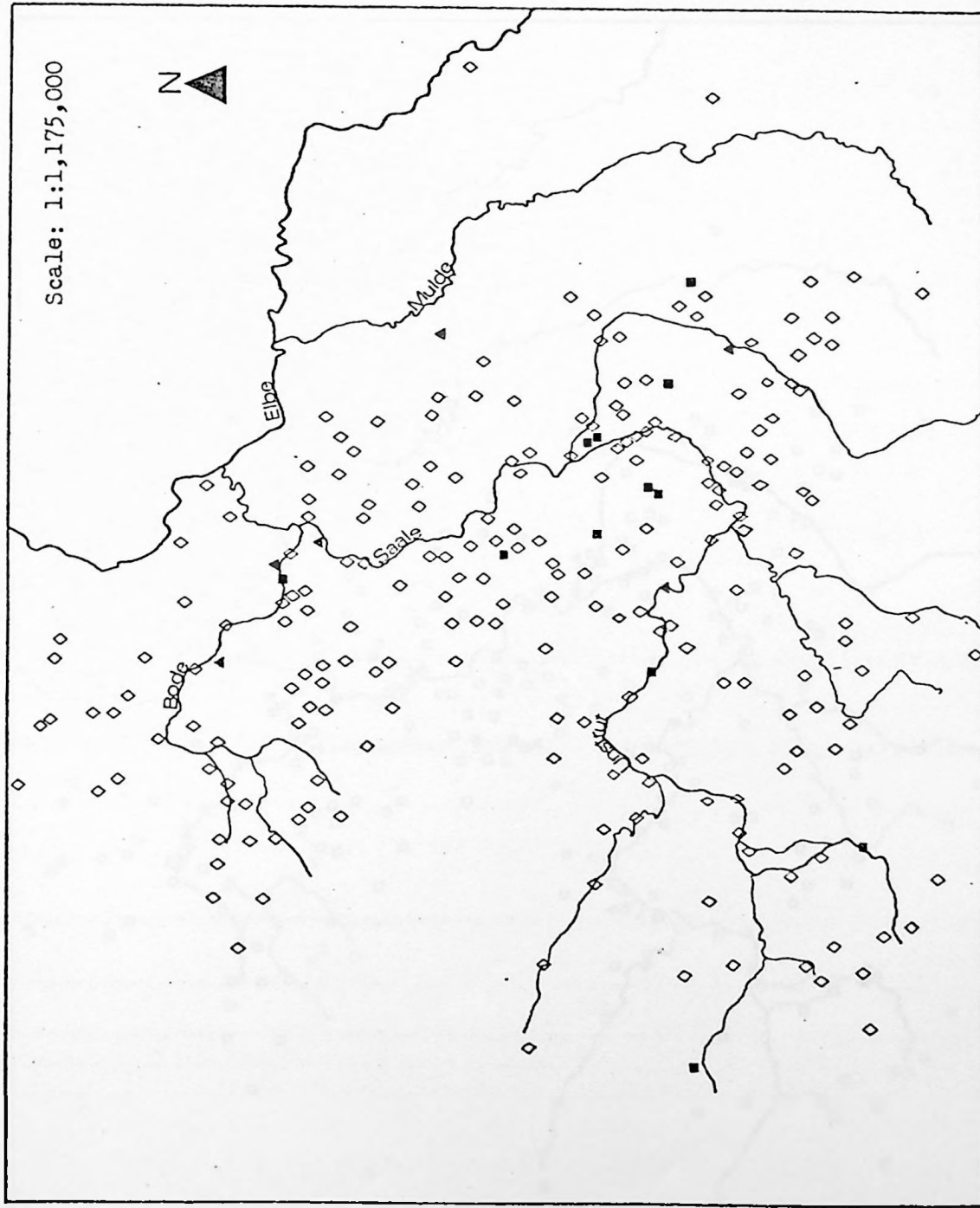
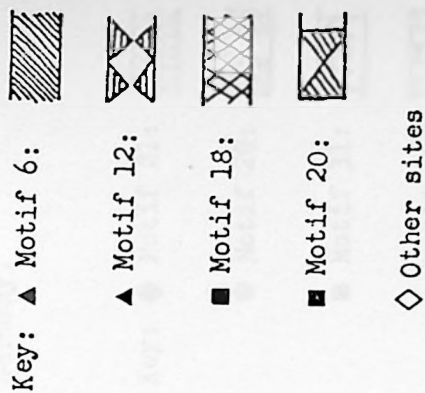


Figure 6.11 Distribution map of sites with decorated Bell Beakers having motifs 6, 12, 18 or 20, against all other Bell Beaker sites in Central Germany.



Geographical Distribution of the Species

This species is distributed in the mountains of the Himalayas, particularly in the region of the Kailash range, where it is found at altitudes of 10,000 to 15,000 feet.

It is also found in the mountains of the Pamir Knot and the Hindu Kush.

It is found in the mountains of the Himalayas, particularly in the region of the Kailash range, where it is found at altitudes of 10,000 to 15,000 feet.

It is also found in the mountains of the Pamir Knot and the Hindu Kush.

It is found in the mountains of the Himalayas, particularly in the region of the Kailash range, where it is found at altitudes of 10,000 to 15,000 feet.

It is also found in the mountains of the Pamir Knot and the Hindu Kush.

It is found in the mountains of the Himalayas, particularly in the region of the Kailash range, where it is found at altitudes of 10,000 to 15,000 feet.



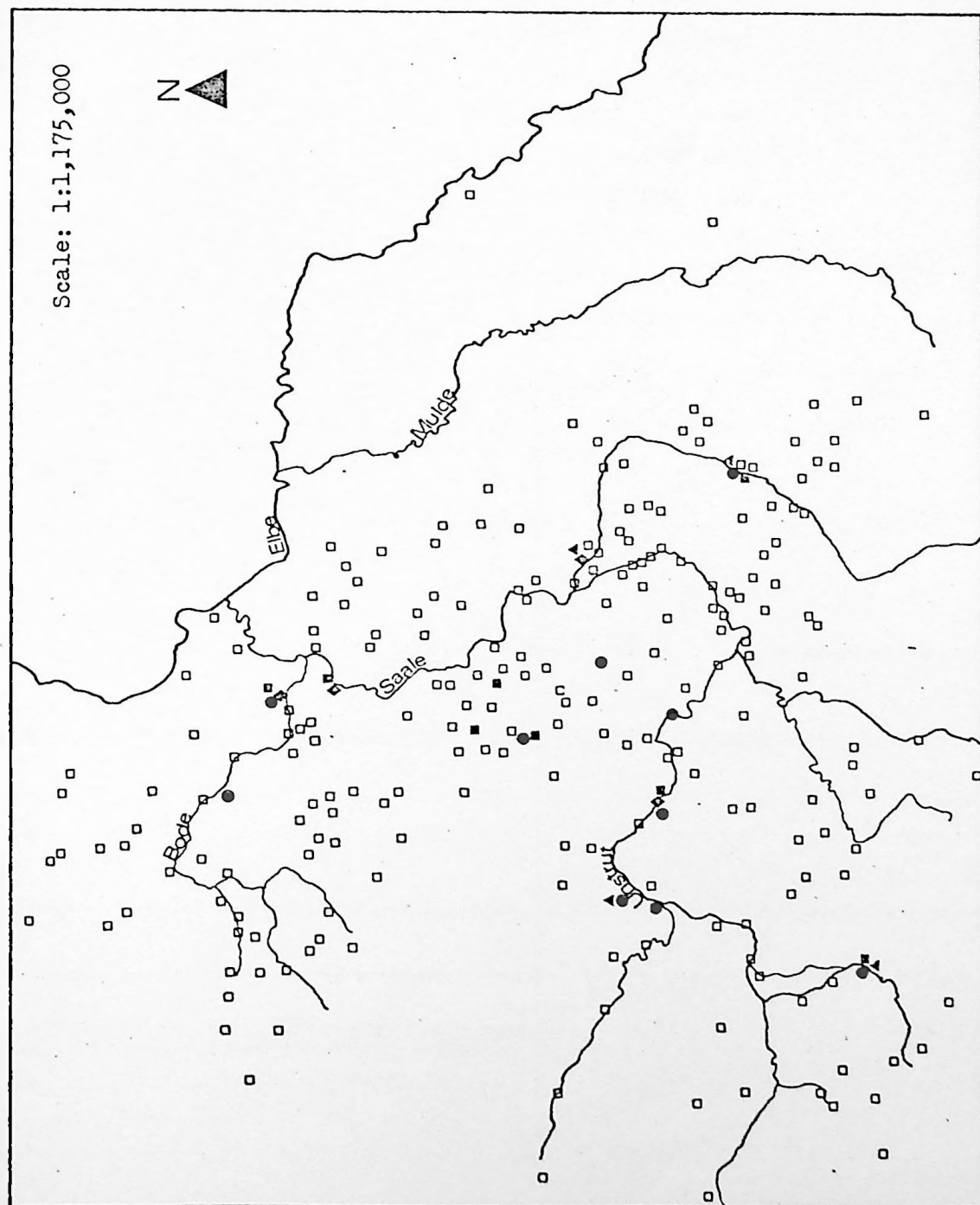


Figure 6.12 Distribution map of sites with decorated Bell Beakers having motifs 21, 29, 31 or 41, against all other Bell Beaker sites in Central Germany.

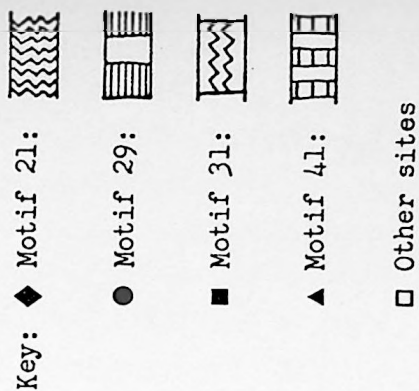


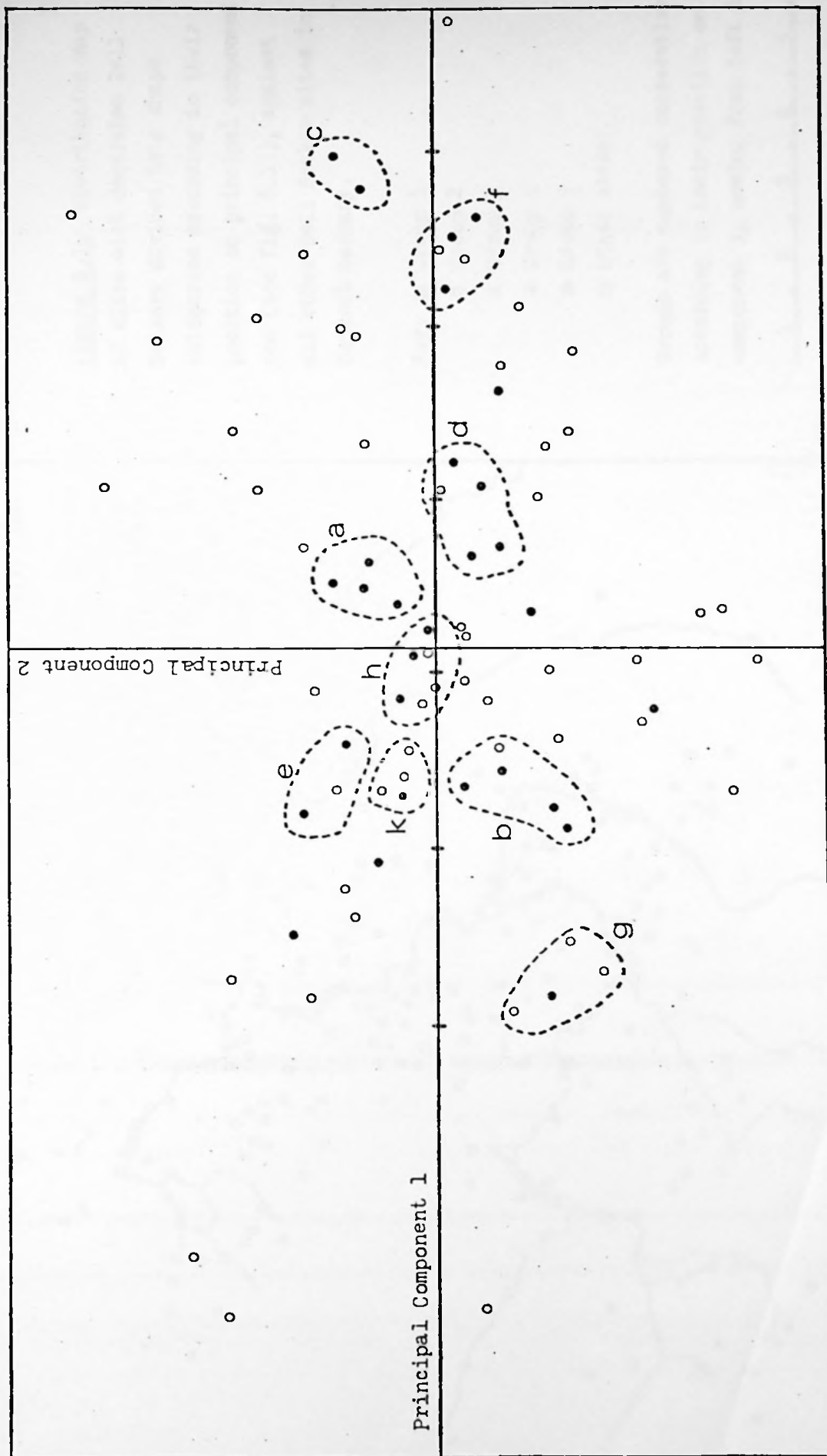
Figure 6.13 Decorated and undecorated Bell Beakers from Central Germany plotted on a scattergram produced from a principal components analysis carried out on measurements of their shape.

Key: ● Decorated Bell Beaker

○ Undecorated Bell Beaker .

In order to find out if component 1 represented a spatial trend it was divided into intervals (see this figure) and those decorated Beakers in a given interval were marked by the same symbol on a map (fig. 6.14).

Secondly, groups detectable by visual examination of the scattergram were also plotted on a map to see if they had any spatial significance (see fig. 6.15). The groups plotted are marked by dashed lines in the scattergram.



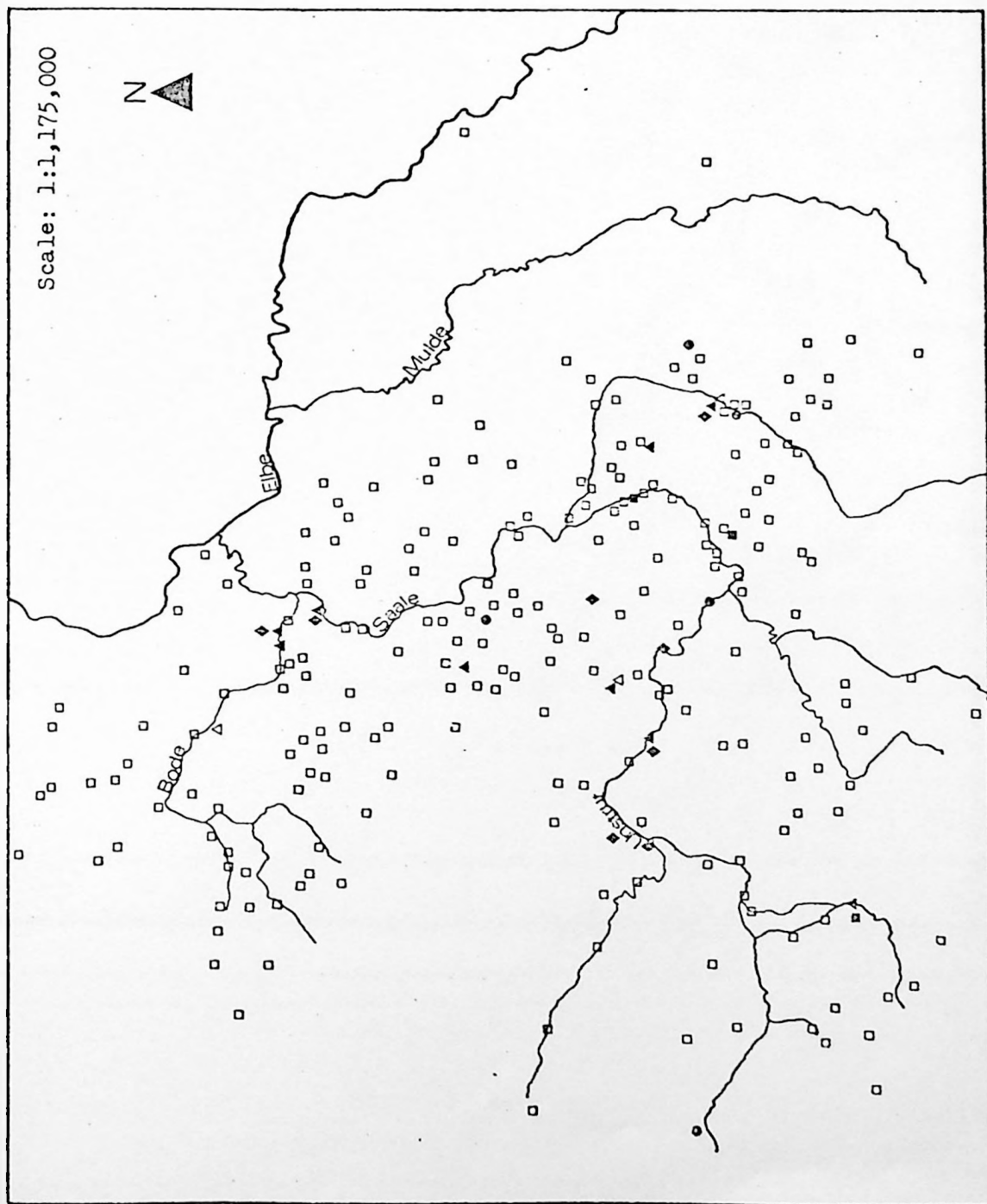


Figure 6.14 Distribution map of sites with decorated Bell Beakers divided into shape categories according to their position on principal component one (see fig. 6.13), against all other Bell Beaker sites in Central Germany.

Key: ■ Group 1
◆ Group 2
▲ Group 3
△ Group 4
● Group 5
□ Other sites

Groups are numbered consecutively according to their position on component 1, moving from left to right



Figure 1. Map of the study area.

The map shows the location of the study area in the north-east of the island of Java, Indonesia. The area is bounded by the coordinates 106° 30' E and 6° 30' S.

Figure 2. Map of the study area.

Figure 3. Map of the study area.

Figure 4. Map of the study area.

Figure 5. Map of the study area.

Figure 6. Map of the study area.

Figure 7. Map of the study area.

Figure 8. Map of the study area.

The map shows the location of the study area in the north-east of the island of Java, Indonesia. The area is bounded by the coordinates 106° 30' E and 6° 30' S.

The map shows the location of the study area in the north-east of the island of Java, Indonesia. The area is bounded by the coordinates 106° 30' E and 6° 30' S.

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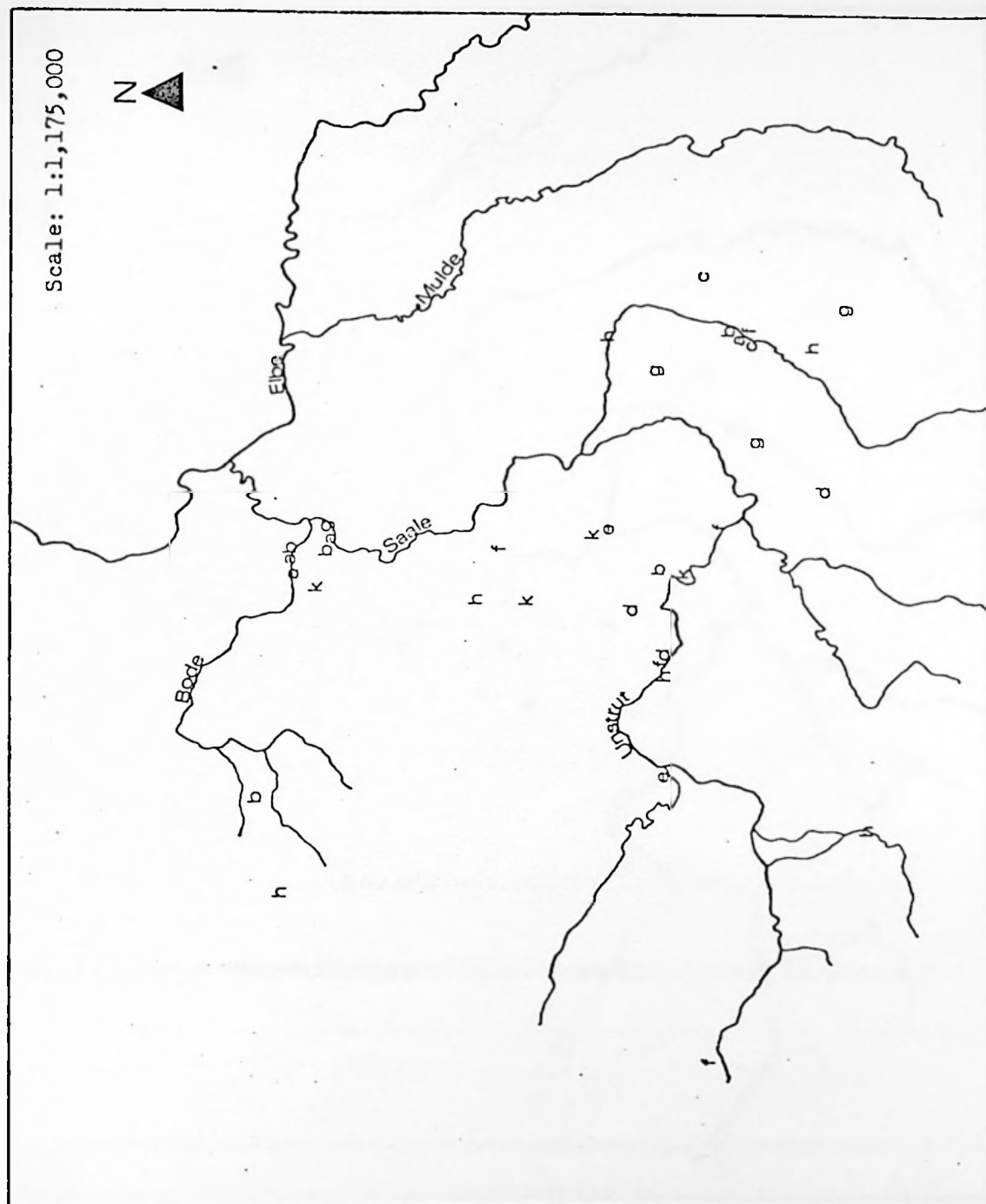


Figure 6.15 Distribution map of Bell Beakers divided into shape categories on the basis of groups visible in the principal components scattergram fig. 6.13. Letters correspond to those which designate the groups in the scattergram.

The following is a list of the names of the
 persons who have been named in the
 records of the court in the case of
 the estate of the late John Doe, deceased.
 The names are given in the order in which
 they were called upon to testify.



100,000 feet
 100,000 feet

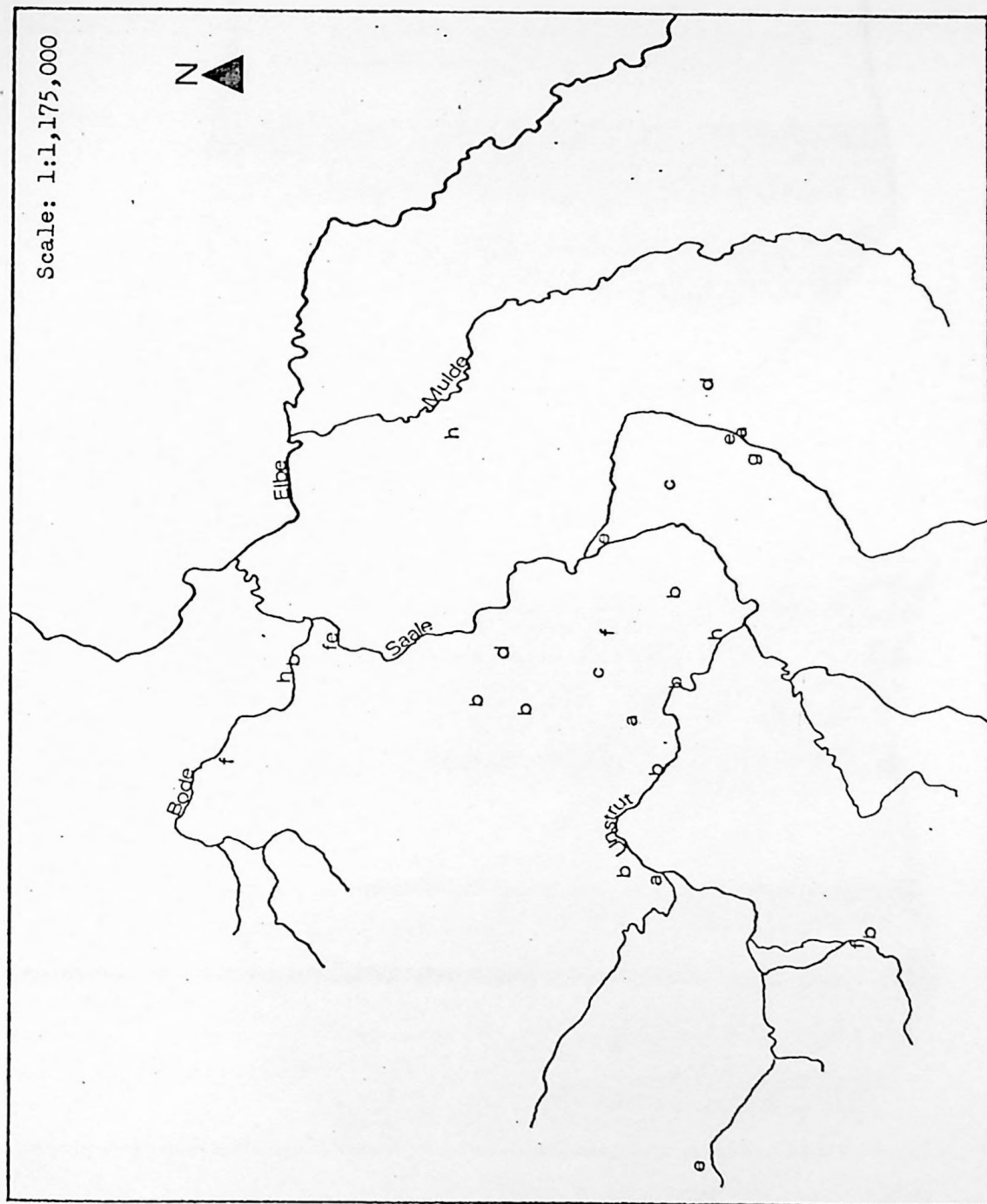
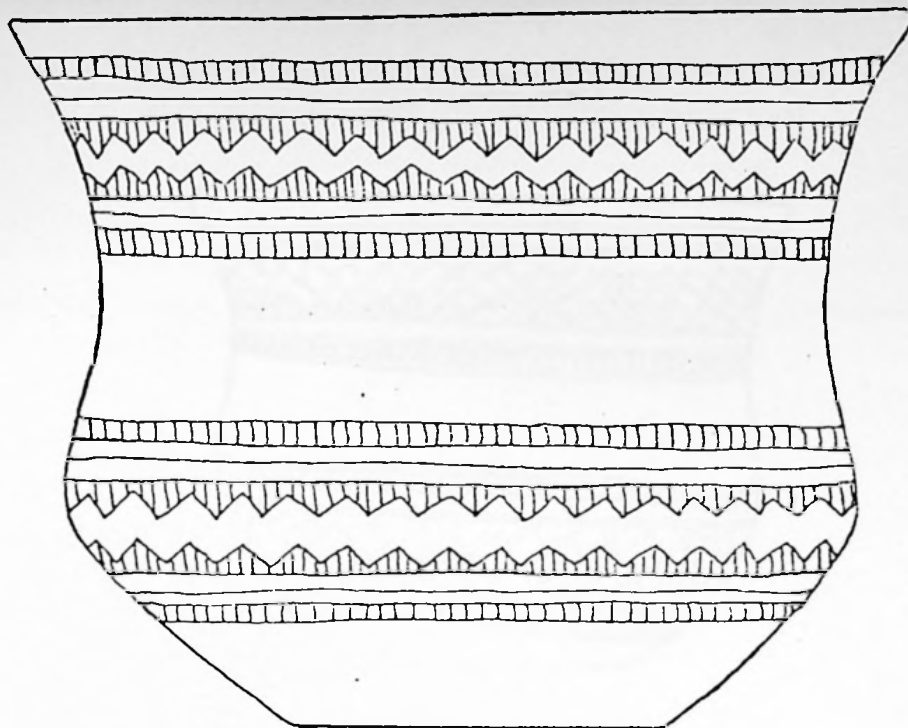


Figure 6.16 Distribution map of decorated Bell Beakers divided into groups on the basis of visual inspection. Examples of the groups are shown in fig. 6.17, where the letters designating the groups correspond to those on the map.

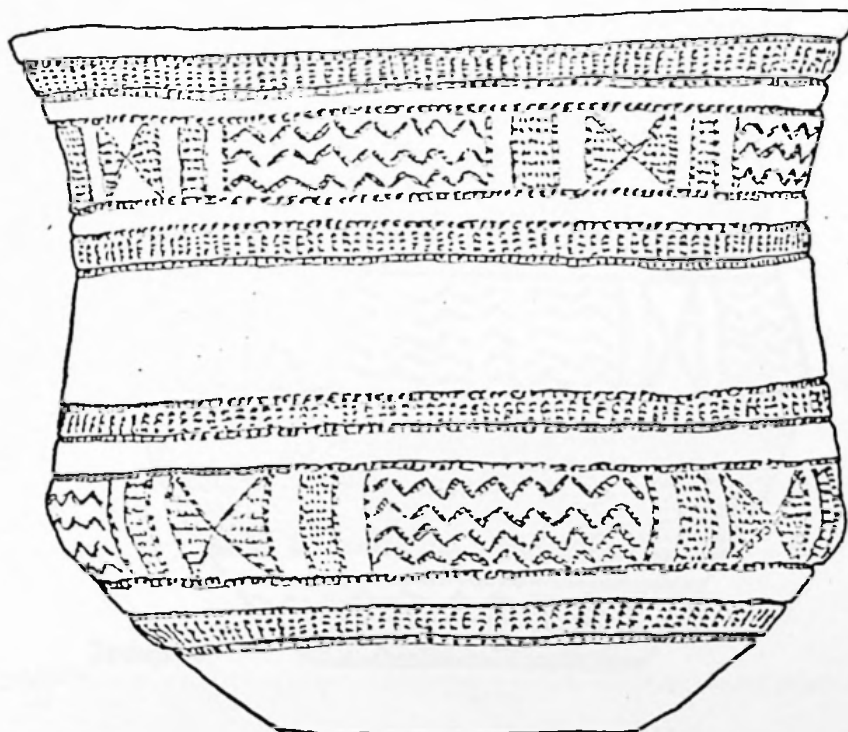
The following is a list of the names of the persons who have been
 elected to the office of the President of the United States since
 1789. The names are given in the order in which they were elected.
 The names are given in the order in which they were elected.



Map of the United States showing the locations of the Presidents of the United States.



Group a



Group b

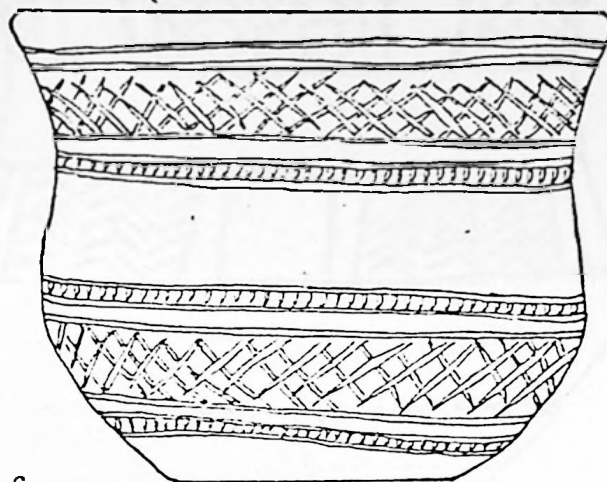
Figure 6.17 Examples of decorated Bell Beakers belonging to groups defined by visual inspection.

Group a: Niederschmon Scale: 3:4

Group b: Neehausen Scale: 3:4



FIGURE 1. A shield-shaped object, possibly a piece of pottery or a decorative panel, featuring horizontal bands and a central emblem. The object is shown in a light, faded style, suggesting it might be a watermark or a very light print.



Group c



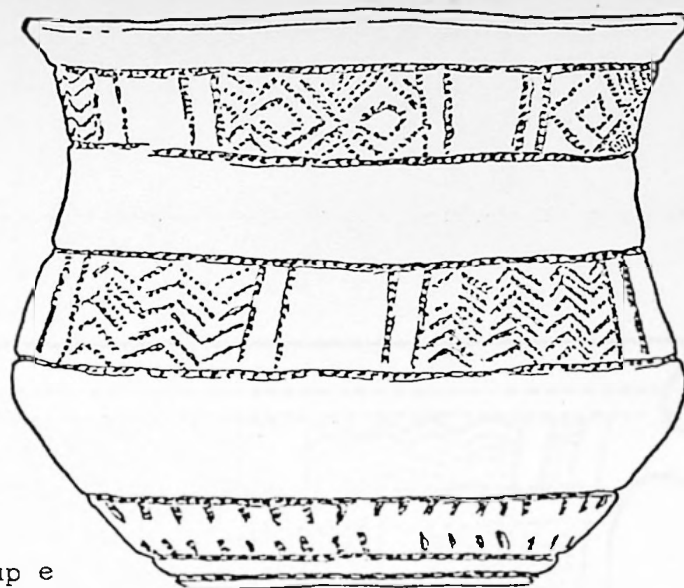
Group d

Fig. 6.17 (continued)

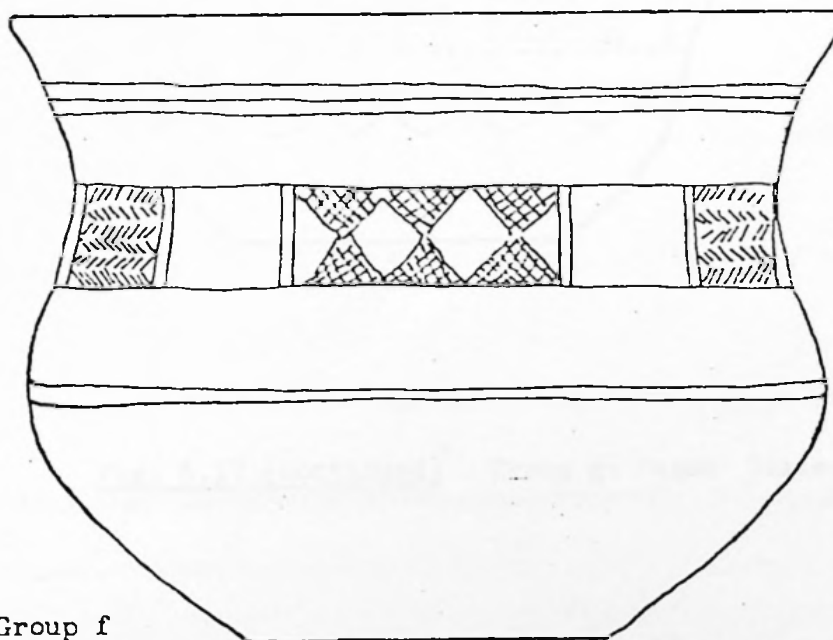
Group c: Grosslehna Scale: 3:4

Group d: Neehausen Scale: 3:4





Group e



Group f

Fig. 6.17 (continued)

Group e: Bernburg Scale: 3:4

Group f: Bernburg Scale: 3:4



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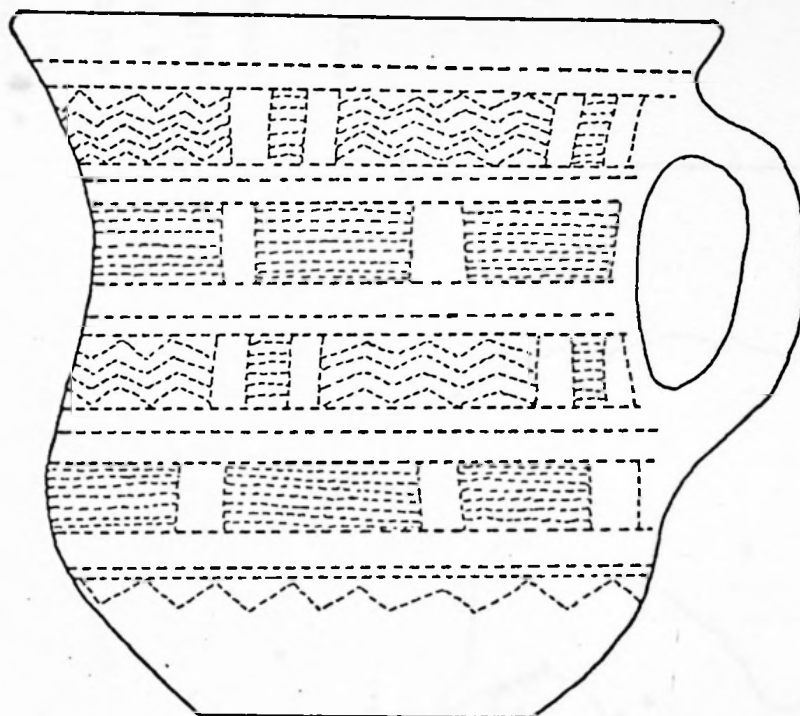


Fig. 6.17 (continued) Group g: Pegau Scale: 3:4



Fig. 1. 1. (Continued) View of the vase.

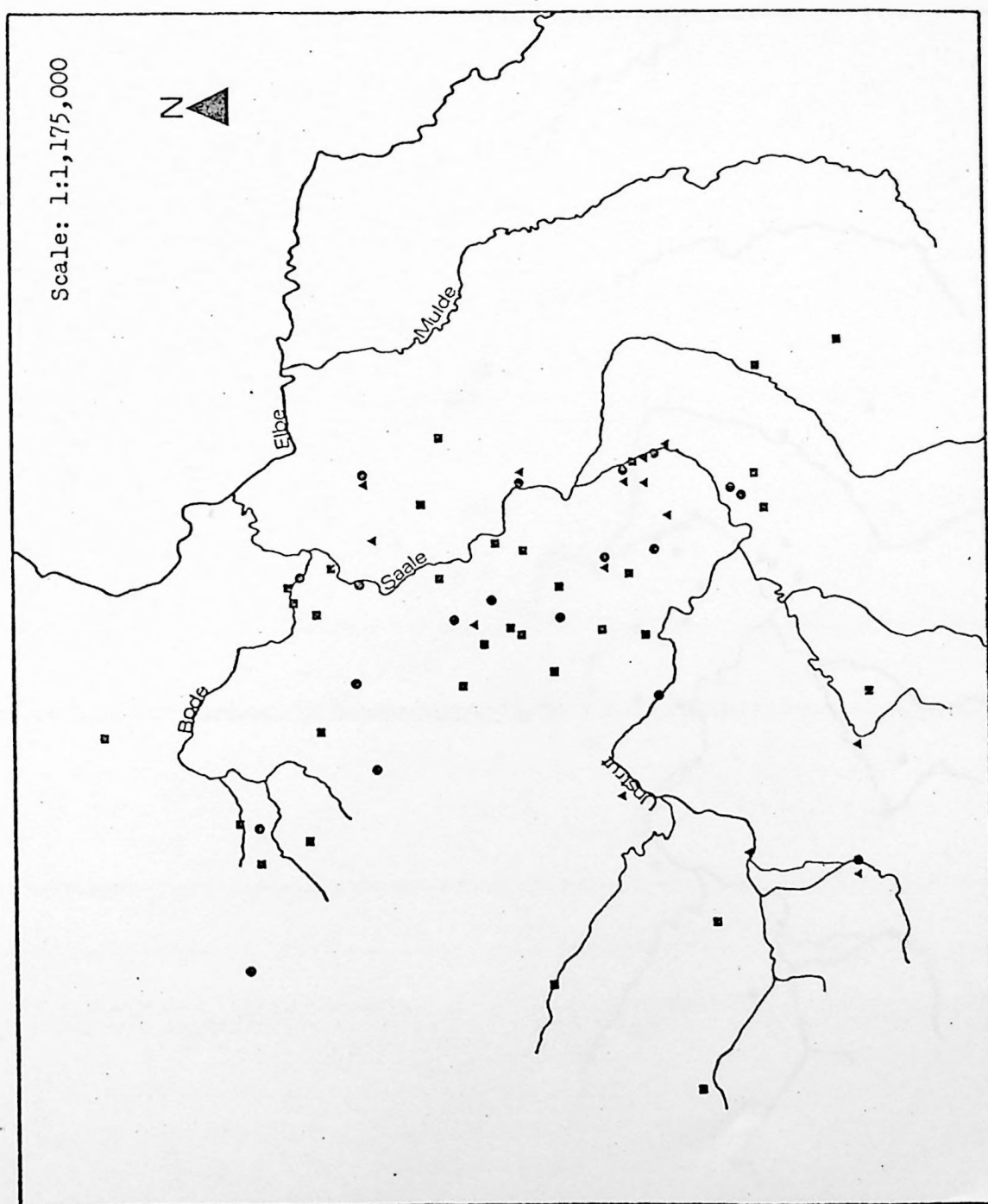


Figure 6.18 Distribution map showing those graves with undecorated Bell Beakers as the sole grave good, and those with decorated Bell Beakers as the sole grave good, against all well-documented graves in Central Germany.

Key: ● Undecorated Bell Beaker alone in grave.
 ▲ Decorated Bell Beaker alone in grave.
 ■ Other well-documented graves.

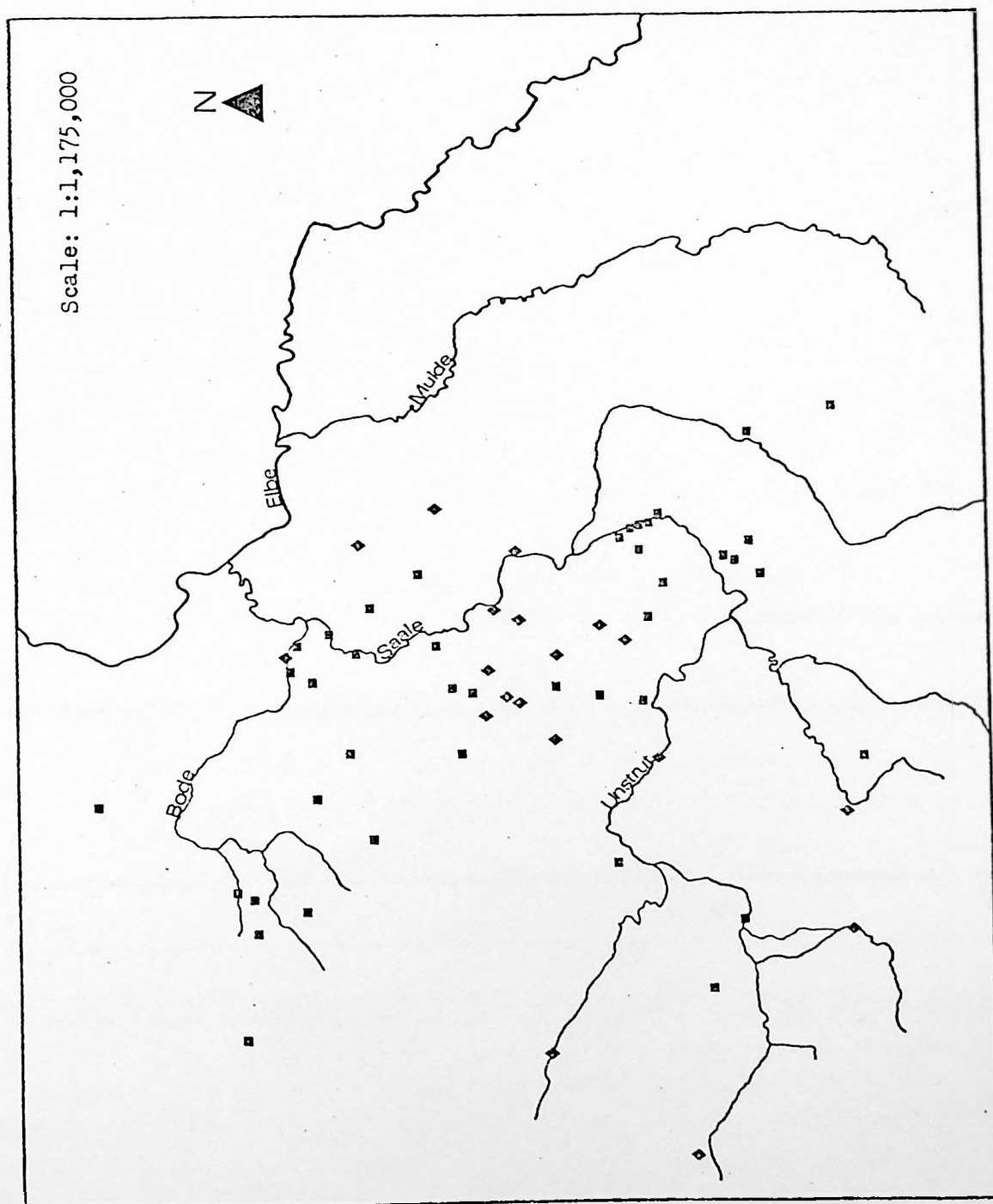


Figure 6.19 Distribution map of sites containing graves with goods scoring 20 or more points, against all well-documented graves in Central Germany.

Key: ◆ Graves with 20 or more points.
 ■ Other well-documented graves.

1. The first part of the paper is devoted to a general discussion of the problem of the existence of solutions of the system of equations (1) for arbitrary values of the parameters α and β . It is shown that the system has solutions for all values of the parameters α and β if the function $f(x)$ is continuous and has a bounded derivative.

2. In the second part of the paper the problem of the existence of solutions of the system of equations (1) for arbitrary values of the parameters α and β is solved. It is shown that the system has solutions for all values of the parameters α and β if the function $f(x)$ is continuous and has a bounded derivative.

3. In the third part of the paper the problem of the existence of solutions of the system of equations (1) for arbitrary values of the parameters α and β is solved. It is shown that the system has solutions for all values of the parameters α and β if the function $f(x)$ is continuous and has a bounded derivative.



Figure 6.20 Dendrogram produced by average-link cluster analysis of the relations between Bell Beaker graves, together with a list of the contents of the graves. Central Germany.

Undecorated Bell Beaker group

<u>Grave No.</u>	<u>Contents</u>
1	Undecorated Bell Beaker
2	" " "
3	" " "
99	" " "
100	" " "
76	" " "
89	" " "
95	" " "
4	" " "
13	" " "
21	" " "
23	" " "
24	" " "
26	" " "
30	" " "
32	" " "
37	" " "
38	" " "
40	" " "
43	" " "
47	" " "
49	" " "
57	" " "
58	" " "
62	" " "
65	" " "
20	Undecorated Bell Beaker, sherds.
61	Undecorated Bell Beaker, coarse jar.
87	Undecorated Bell Beaker, jug.
105	" " " "

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Fig. 6.20 (continued)

Undecorated Bell Beaker group (continued)

<u>Grave No.</u>	<u>Contents</u>
88	Undecorated Bell Beaker, bone pin.
10	Undecorated Bell Beaker, wrist-guard, animal bones.
25	" " " " " "
85	" " " " " "
53	Undecorated Bell Beaker, wrist-guard.
63	" " " " "
41	Undecorated Bell Beaker, animal bones, flake.
74	Undecorated Bell Beaker, animal bones.
90	" " " " "
82	Undecorated Bell Beaker, animal bones, arrowhead.
5	Undecorated Bell Beaker, vessel.
86	Vessel
69	Undecorated Bell Beaker, flake, copper awl, sherds, bone point, shell.
11	Undecorated handled Bell Beaker.
19	" " " "
67	" " " "
27	Undecorated Bell Beaker, undecorated handled Bell Beaker.
56	" " " " " "
79	Decorated Bell Beaker, vessel, undecorated handled Bell Beaker, amber bead, amber button.
7	Undecorated Bell Beaker, bowl, handled Topf.
54	Undecorated Bell Beaker, bowl.
66	Bowl.
68	"
72	"
77	"
94	"
36	Undecorated handled Bell Beaker, bowl, blade.
104	Undecorated handled Bell Beaker, bowl.
75	Wrist-guard, coarse jar.

General List of the

No.	Description
1	...
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96	...
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98	...
99	...
100	...

Fig. 6.20 (continued)

Decorated Bell Beaker group

<u>Grave No.</u>	<u>Contents</u>
6	Decorated Bell Beaker.
8	" " "
9	" " "
106	" " "
107	" " "
71	" " "
81	" " "
102	" " "
14	" " "
16	" " "
17	" " "
18	" " "
28	" " "
42	" " "
44	" " "
55	" " "
70	" " "
46	Decorated Bell Beaker, burnt clay.
98	Decorated Bell Beaker, wrist-guard.
103	Decorated Bell Beaker, wrist-guard, pendant.
22	Decorated Bell Beaker, jug, animal bones.
33	Decorated Bell Beaker, jug.
73	" " " "
84	Jug, animal bones.
29	Decorated Bell Beaker, arrowhead, blade, scraper, amber bead.
64	Decorated Bell Beaker, blade, stone chisel, stone axe.
39	Decorated Bell Beaker, animal bones, arrowhead, colouring matter.
48	Decorated Bell Beaker, animal bones, arrowhead, blade.
92	Animal bones, arrowhead, blade, flake.
101	Undecorated Bell Beaker, arrowhead, blade.
31	Decorated Bell Beaker, jug, blade, flake, sherds.
50	Decorated Bell Beaker, arrowhead, flake, boar's tusk, sherds.
51	" " " " " " " "
59	Decorated Bell Beaker, wrist-guard, arrowhead, tanged copper dagger, amber bead.

Table 1. List of species

Species	Number
1. <i>Amphispiza bilineata</i>	1
2. <i>Amphispiza bilineata</i>	2
3. <i>Amphispiza bilineata</i>	3
4. <i>Amphispiza bilineata</i>	4
5. <i>Amphispiza bilineata</i>	5
6. <i>Amphispiza bilineata</i>	6
7. <i>Amphispiza bilineata</i>	7
8. <i>Amphispiza bilineata</i>	8
9. <i>Amphispiza bilineata</i>	9
10. <i>Amphispiza bilineata</i>	10
11. <i>Amphispiza bilineata</i>	11
12. <i>Amphispiza bilineata</i>	12
13. <i>Amphispiza bilineata</i>	13
14. <i>Amphispiza bilineata</i>	14
15. <i>Amphispiza bilineata</i>	15
16. <i>Amphispiza bilineata</i>	16
17. <i>Amphispiza bilineata</i>	17
18. <i>Amphispiza bilineata</i>	18
19. <i>Amphispiza bilineata</i>	19
20. <i>Amphispiza bilineata</i>	20
21. <i>Amphispiza bilineata</i>	21
22. <i>Amphispiza bilineata</i>	22
23. <i>Amphispiza bilineata</i>	23
24. <i>Amphispiza bilineata</i>	24
25. <i>Amphispiza bilineata</i>	25
26. <i>Amphispiza bilineata</i>	26
27. <i>Amphispiza bilineata</i>	27
28. <i>Amphispiza bilineata</i>	28
29. <i>Amphispiza bilineata</i>	29
30. <i>Amphispiza bilineata</i>	30
31. <i>Amphispiza bilineata</i>	31
32. <i>Amphispiza bilineata</i>	32
33. <i>Amphispiza bilineata</i>	33
34. <i>Amphispiza bilineata</i>	34
35. <i>Amphispiza bilineata</i>	35
36. <i>Amphispiza bilineata</i>	36
37. <i>Amphispiza bilineata</i>	37
38. <i>Amphispiza bilineata</i>	38
39. <i>Amphispiza bilineata</i>	39
40. <i>Amphispiza bilineata</i>	40
41. <i>Amphispiza bilineata</i>	41
42. <i>Amphispiza bilineata</i>	42
43. <i>Amphispiza bilineata</i>	43
44. <i>Amphispiza bilineata</i>	44
45. <i>Amphispiza bilineata</i>	45
46. <i>Amphispiza bilineata</i>	46
47. <i>Amphispiza bilineata</i>	47
48. <i>Amphispiza bilineata</i>	48
49. <i>Amphispiza bilineata</i>	49
50. <i>Amphispiza bilineata</i>	50
51. <i>Amphispiza bilineata</i>	51
52. <i>Amphispiza bilineata</i>	52
53. <i>Amphispiza bilineata</i>	53
54. <i>Amphispiza bilineata</i>	54
55. <i>Amphispiza bilineata</i>	55
56. <i>Amphispiza bilineata</i>	56
57. <i>Amphispiza bilineata</i>	57
58. <i>Amphispiza bilineata</i>	58
59. <i>Amphispiza bilineata</i>	59
60. <i>Amphispiza bilineata</i>	60
61. <i>Amphispiza bilineata</i>	61
62. <i>Amphispiza bilineata</i>	62
63. <i>Amphispiza bilineata</i>	63
64. <i>Amphispiza bilineata</i>	64
65. <i>Amphispiza bilineata</i>	65
66. <i>Amphispiza bilineata</i>	66
67. <i>Amphispiza bilineata</i>	67
68. <i>Amphispiza bilineata</i>	68
69. <i>Amphispiza bilineata</i>	69
70. <i>Amphispiza bilineata</i>	70
71. <i>Amphispiza bilineata</i>	71
72. <i>Amphispiza bilineata</i>	72
73. <i>Amphispiza bilineata</i>	73
74. <i>Amphispiza bilineata</i>	74
75. <i>Amphispiza bilineata</i>	75
76. <i>Amphispiza bilineata</i>	76
77. <i>Amphispiza bilineata</i>	77
78. <i>Amphispiza bilineata</i>	78
79. <i>Amphispiza bilineata</i>	79
80. <i>Amphispiza bilineata</i>	80
81. <i>Amphispiza bilineata</i>	81
82. <i>Amphispiza bilineata</i>	82
83. <i>Amphispiza bilineata</i>	83
84. <i>Amphispiza bilineata</i>	84
85. <i>Amphispiza bilineata</i>	85
86. <i>Amphispiza bilineata</i>	86
87. <i>Amphispiza bilineata</i>	87
88. <i>Amphispiza bilineata</i>	88
89. <i>Amphispiza bilineata</i>	89
90. <i>Amphispiza bilineata</i>	90
91. <i>Amphispiza bilineata</i>	91
92. <i>Amphispiza bilineata</i>	92
93. <i>Amphispiza bilineata</i>	93
94. <i>Amphispiza bilineata</i>	94
95. <i>Amphispiza bilineata</i>	95
96. <i>Amphispiza bilineata</i>	96
97. <i>Amphispiza bilineata</i>	97
98. <i>Amphispiza bilineata</i>	98
99. <i>Amphispiza bilineata</i>	99
100. <i>Amphispiza bilineata</i>	100

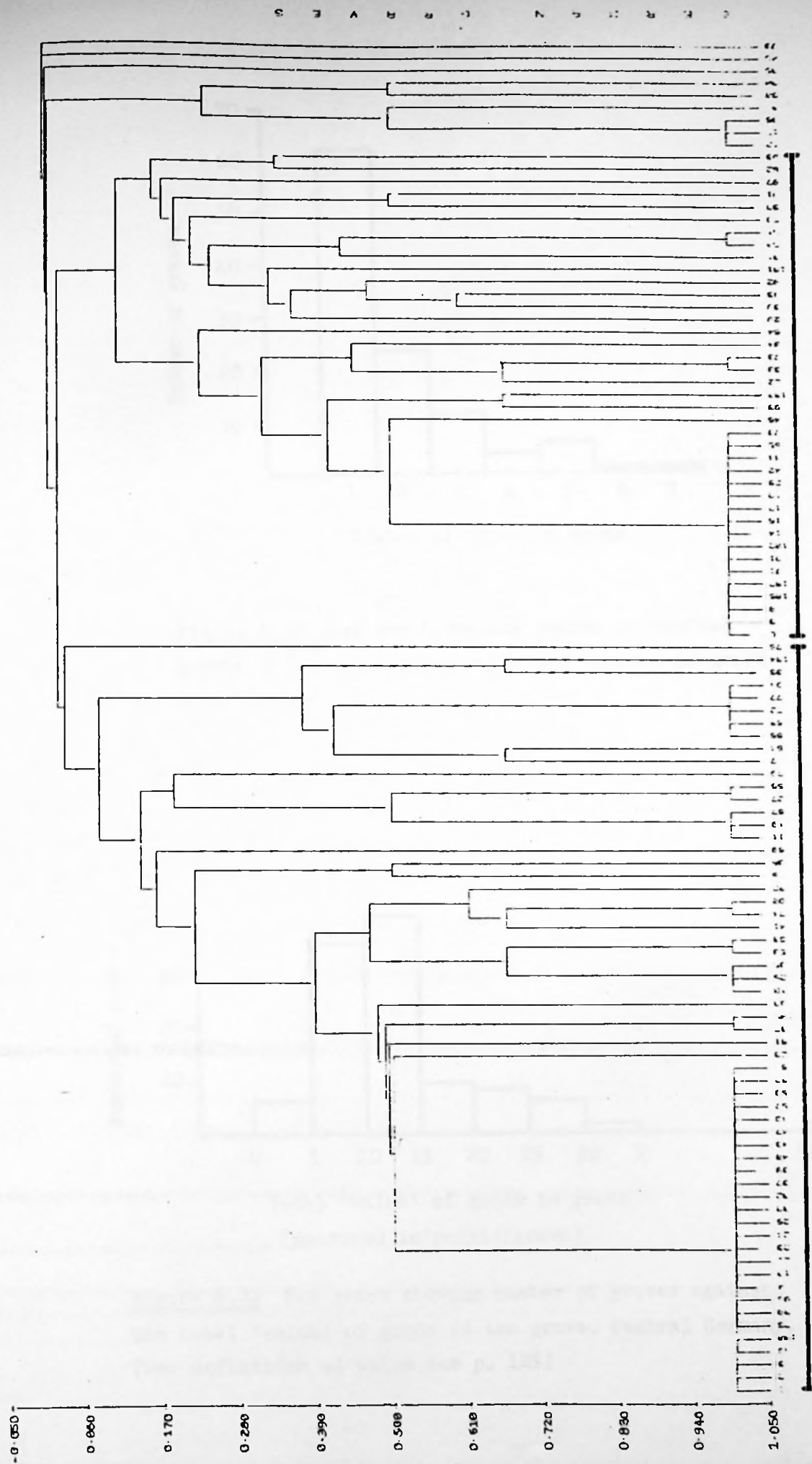
Figure 6.20 (continued)

Decorated Bell Beaker group (continued)

<u>Grave No.</u>	<u>Contents</u>
83	Polypod bowl, arrowhead.
91	Arrowhead.
97	Undecorated Bell Beaker, animal bones, arrowhead, boar's tusk, tanged copper dagger, polishing stone, antler object.
52	Arrowhead, flake, scraper.
93	Flake.

Others

<u>Grave No.</u>	<u>Contents</u>
12	Polypod bowl.
15	" "
96	" "
34	Polypod bowl, blade.
60	Polypod bowl, decorated handled Bell Beaker.
80	Decorated handled Bell Beaker.
35	Handled Topf.
45	Basin.
78	Wood.



Decorated Bell Beaker group

Undecorated Bell Beaker group

1900-1901

1901-1902



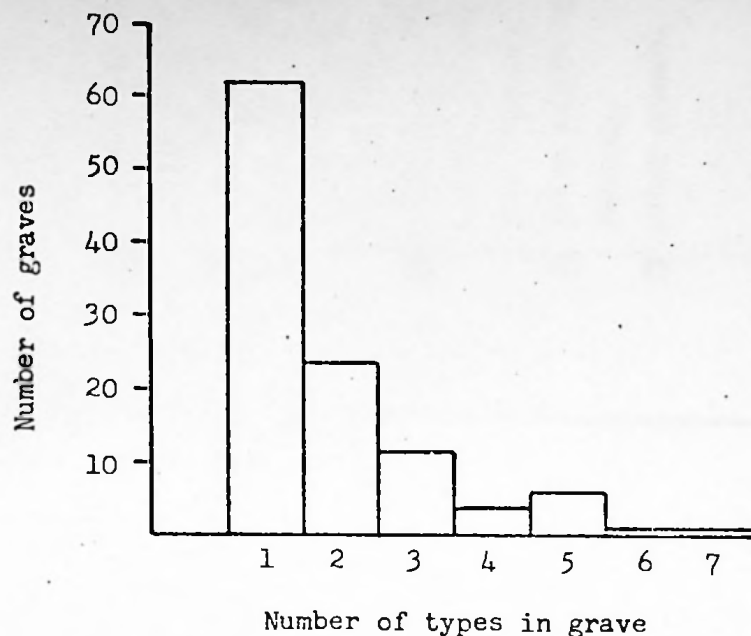


Figure 6.21 Bar graph showing number of Central German graves containing different numbers of grave good types.

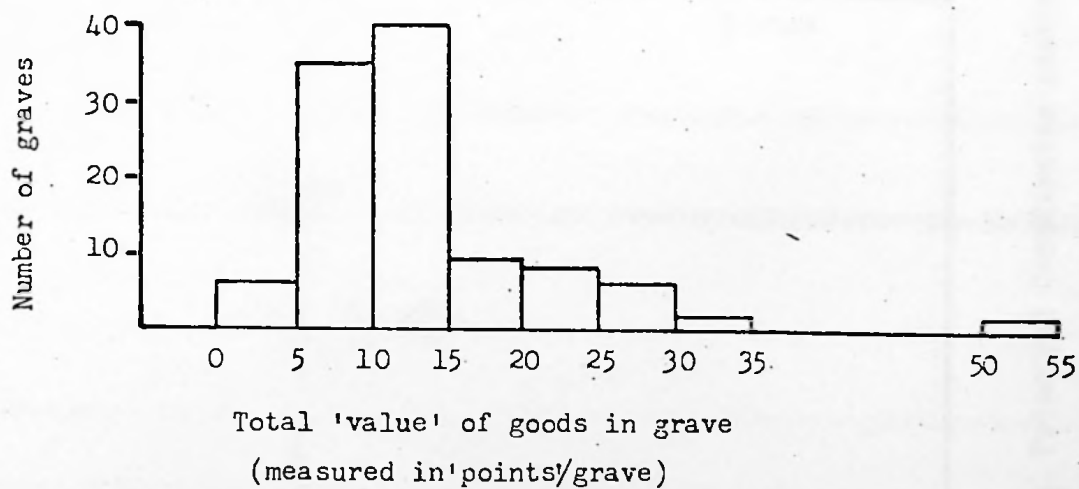
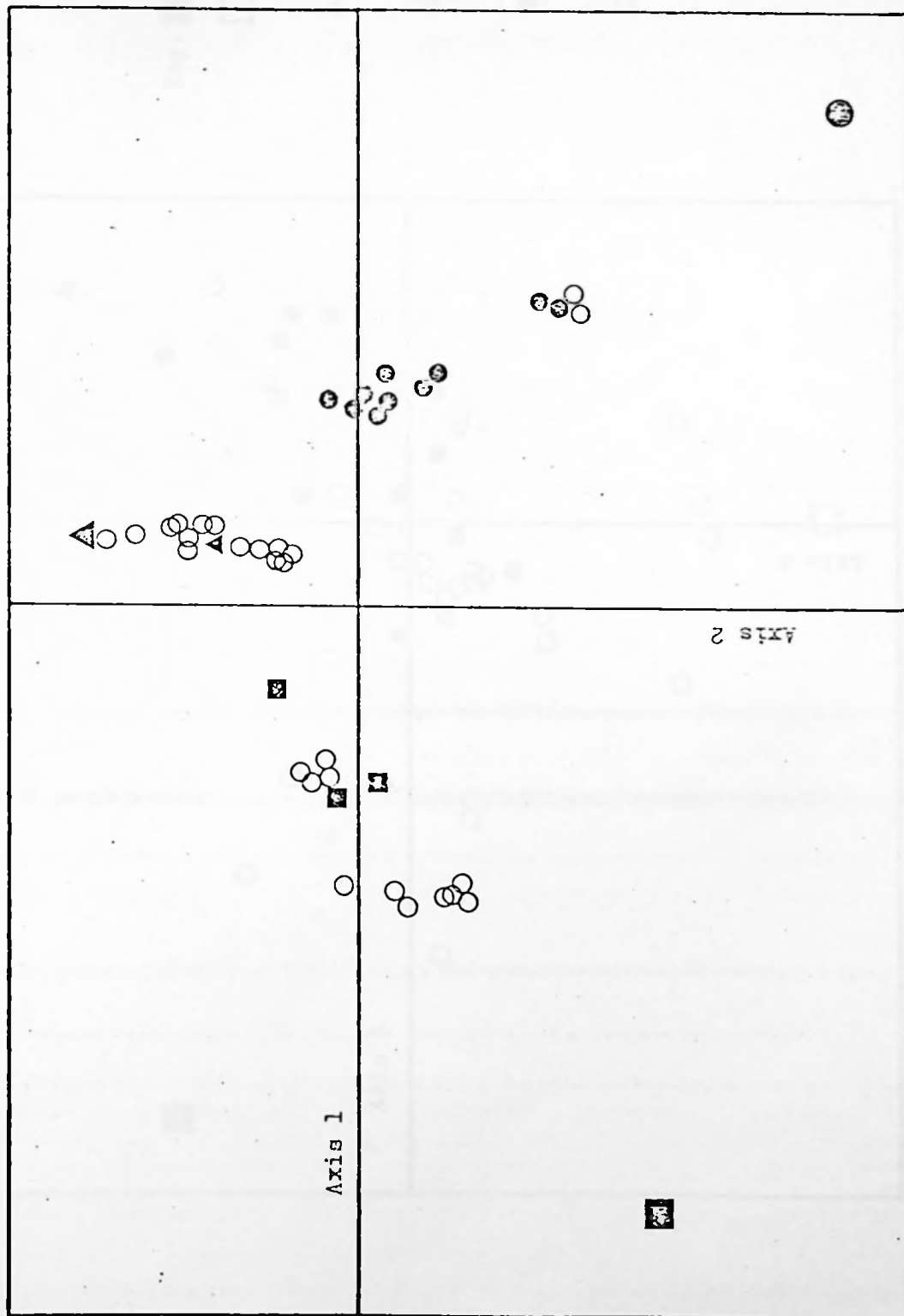


Figure 6.22 Bar graph showing number of graves against the total 'value' of goods in the grave. Central Germany. (For definition of value see p. 125)

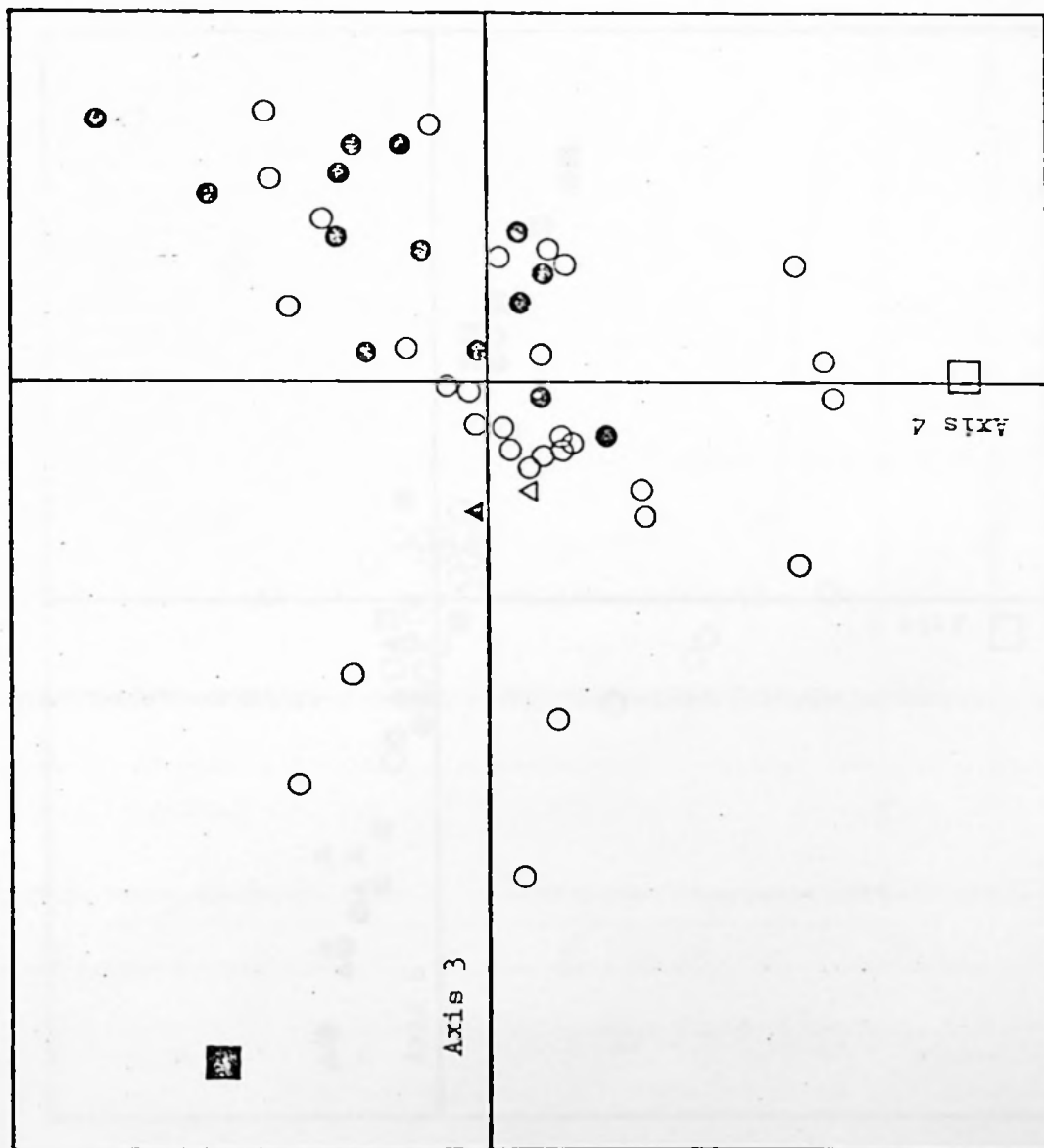


Figure 1. Histogram showing the frequency distribution of the number of seeds per fruit. The x-axis is labeled 'Number of seeds per fruit' and ranges from 0 to 10. The y-axis is labeled 'Frequency' and ranges from 0 to 50. The distribution is unimodal and slightly right-skewed, with a peak at 6 seeds per fruit.



- Key:
- Graves with decorated Bell Beaker alone.
 - Graves with undecorated Bell Beaker alone.
 - ▲ Graves with bowl alone.
 - Graves with ≥ 20 points containing decorated Bell Beakers.
 - Graves with ≥ 20 points containing undecorated Bell Beakers.
 - ▲ Other graves with ≥ 20 points.
 - Other graves.

Figure 6.23 Principal Coordinates scattergram of Central German Bell Beaker graves. Axes 1 and 2.



- Key: Graves with bowl alone.
- Graves with polypod bowl alone.
- Graves with decorated Bell Beaker alone.
- Graves with undecorated Bell Beaker alone.
- Graves with ≥ 20 points.
- Other graves.

Figure 6.24 Principal Coordinates scattergram of Central German Bell Beaker graves. Axes 3 and 4.

1000
 2000
 3000
 4000
 5000
 6000
 7000
 8000
 9000
 10000



1000
 2000
 3000
 4000
 5000
 6000
 7000
 8000
 9000
 10000

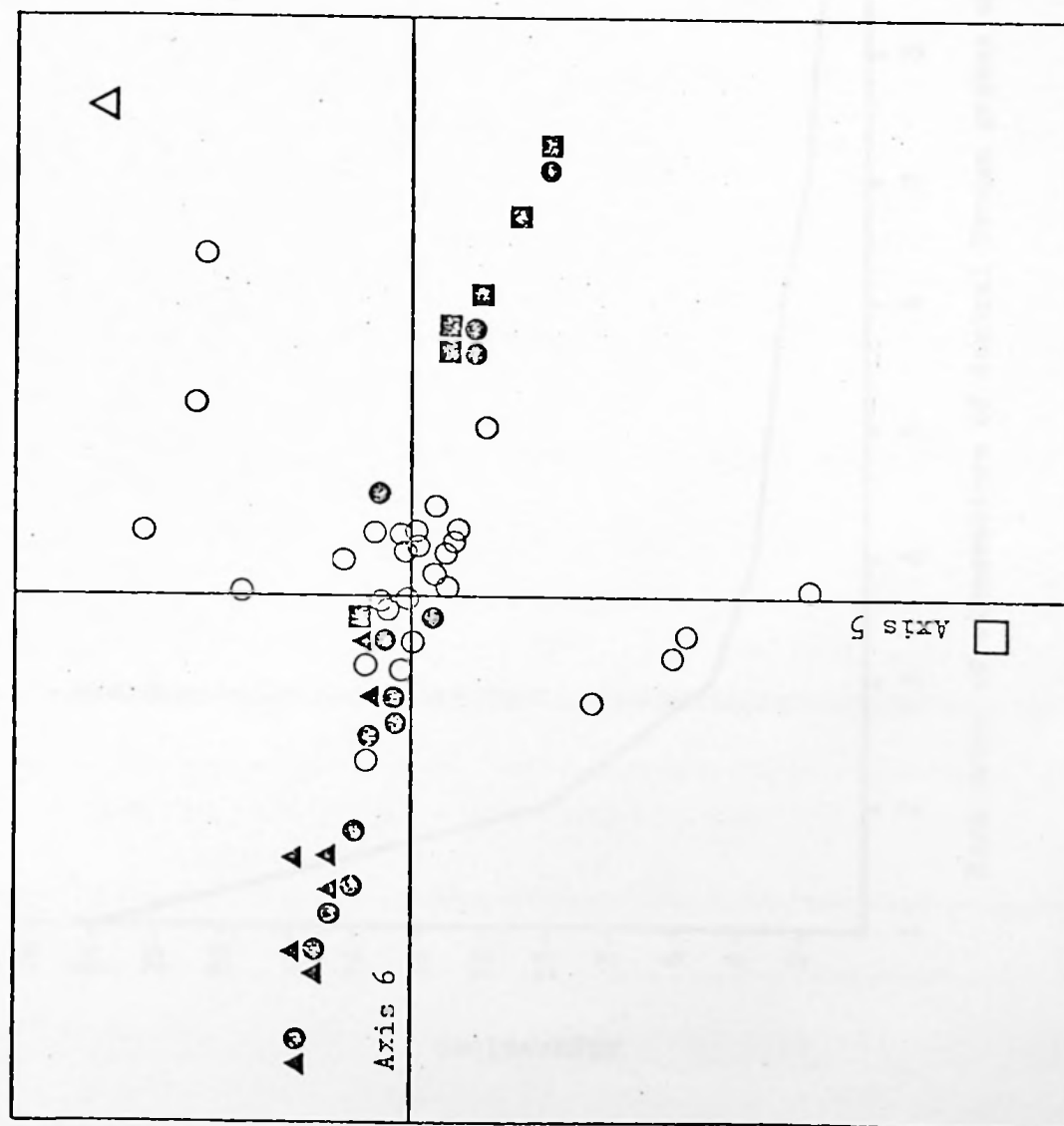


Figure 6.25 Principal Coordinates scattergram of Central German Bell Beaker graves. Axes 5 and 6.

Small rectangular object, 1.5 cm x 1.0 cm

Small rectangular object, 1.5 cm x 1.0 cm

Small rectangular object, 1.5 cm x 1.0 cm

Small rectangular object, 1.5 cm x 1.0 cm

Small rectangular object, 1.5 cm x 1.0 cm

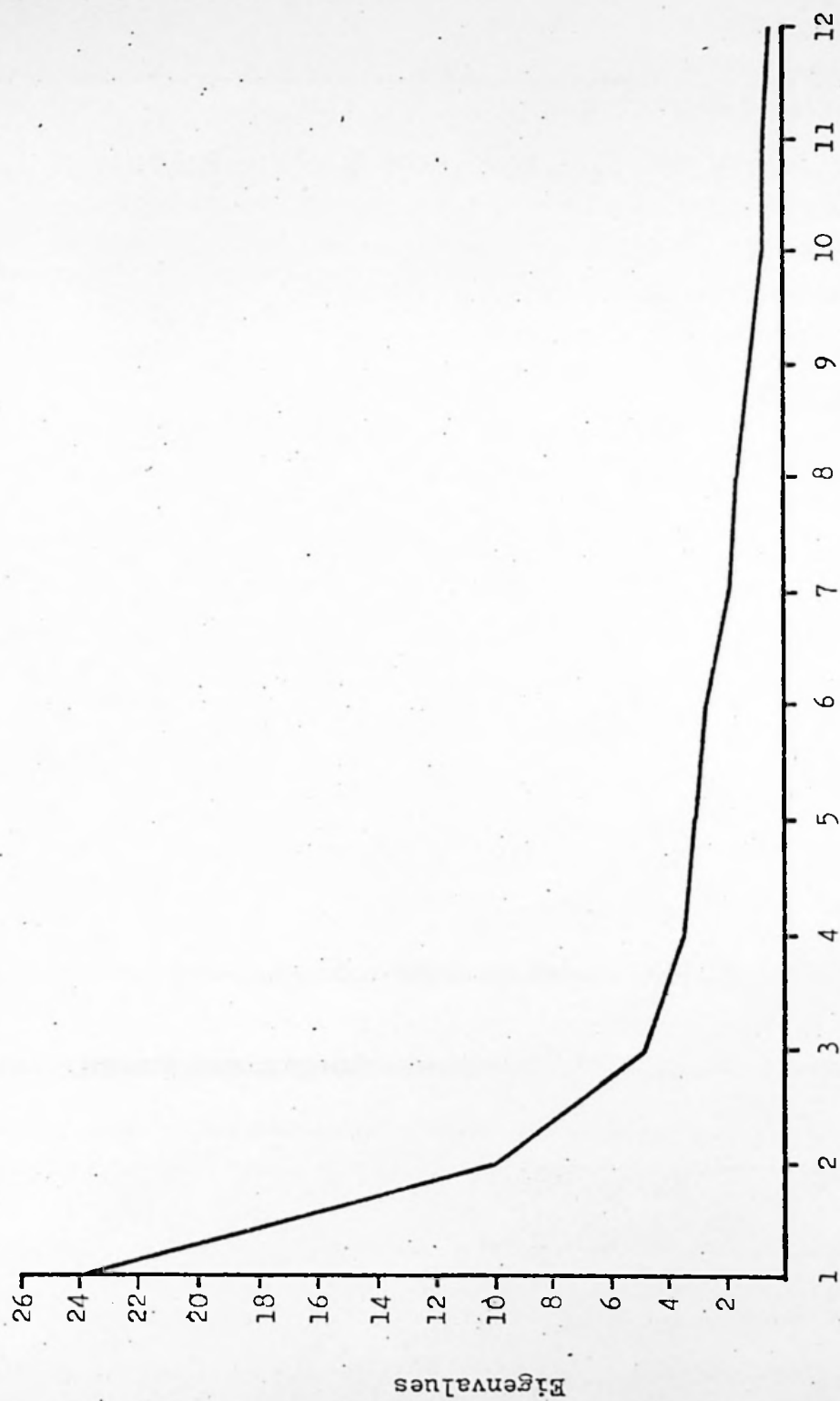
Small rectangular object, 1.5 cm x 1.0 cm

Small rectangular object, 1.5 cm x 1.0 cm



Small rectangular object, 1.5 cm x 1.0 cm

Small rectangular object, 1.5 cm x 1.0 cm



Rank order of eigenvectors of Central German graves similarity matrix

Figure 6.26 Graph of eigenvectors against their corresponding eigenvalues

Figure 7.1 Relative frequency of deposition for the more common goods found in Bell Beaker graves in different regions of Central Europe.

Key: x-axis runs from south-east to north-west;
H=Hungary, M=Moravia, B=Bohemia, G= Central Germany.
The meaning of the y-axis depends on which line is being considered (see immediately below), but all the units are at the same scale.

Line number

- | | |
|----|---|
| 3 | Percentage of all graves in each area that are cremations. |
| 4 | Number of undecorated Bell Beakers/100 graves in each area. |
| 5 | Number of polypod bowls in each area as a percentage of the total number of bowls in that area. |
| 6 | Number of undecorated handled Bell Beakers in each area, as a percentage of the total number of undecorated handled Bell Beakers and jugs in that area. |
| 7 | The number of bowls/100 graves in each area. |
| 8 | The number of jugs/100 graves in each area. |
| 9 | The number of undecorated handled Bell Beakers/100 graves in each area. |
| 10 | The number of polypod bowls/100 graves in each area. |
| 11 | The number of decorated Bell Beakers/100 graves in each area. |
| 12 | The number of copper daggers/100 graves in each area. |
| 13 | The number of wrist-guards/100 graves in each area. |

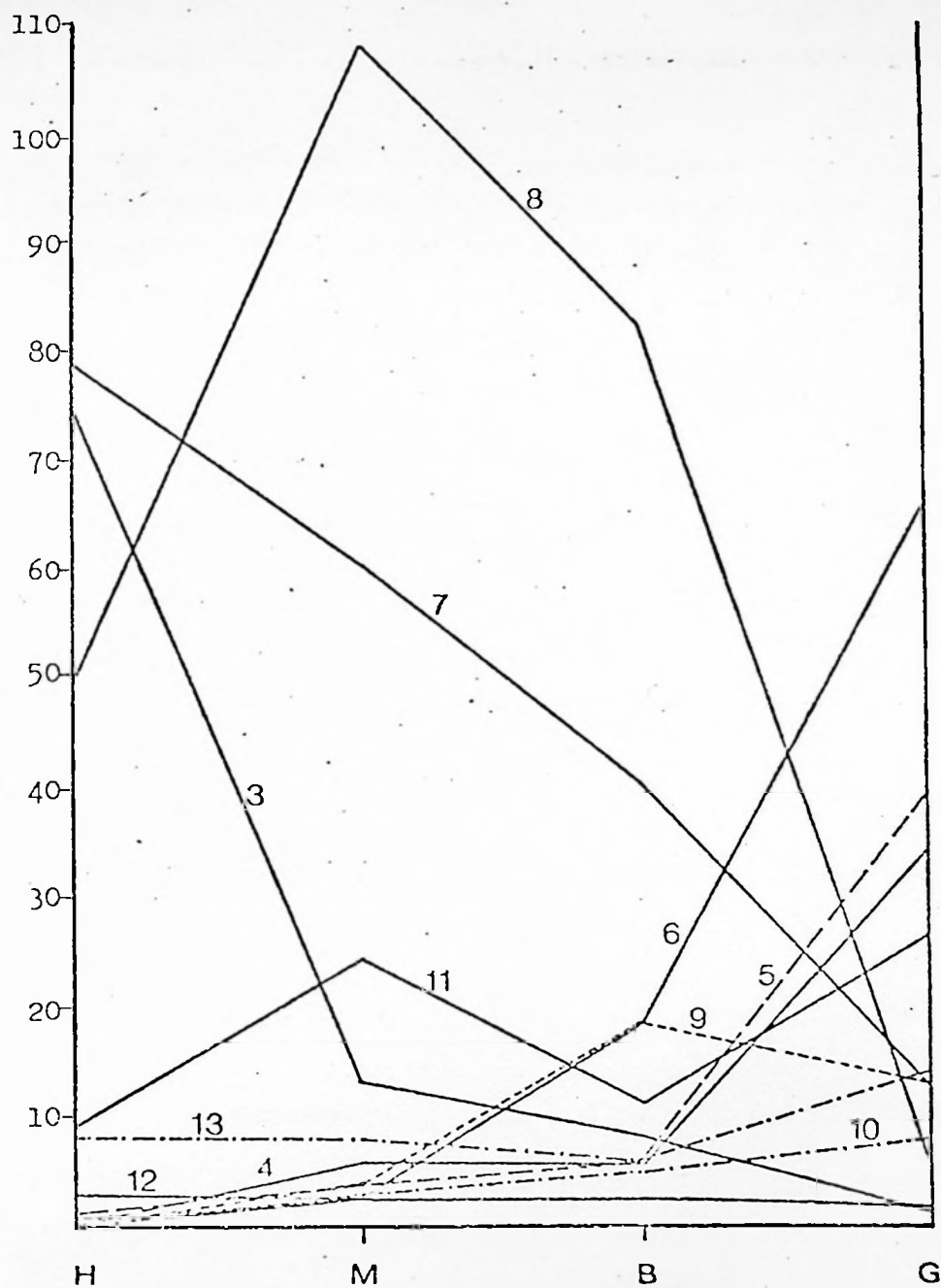


Figure 7.2 Multi-dimensional scalogram of Central European Bell Beaker shapes. The shapes of 100 randomly selected Central European Bell Beakers were described in terms of ratios and a number of groups was initially produced by average-link cluster analysis. Multi-dimensional scaling was carried out on the resulting groups (see text) and the result in two dimensions is shown in the figure.

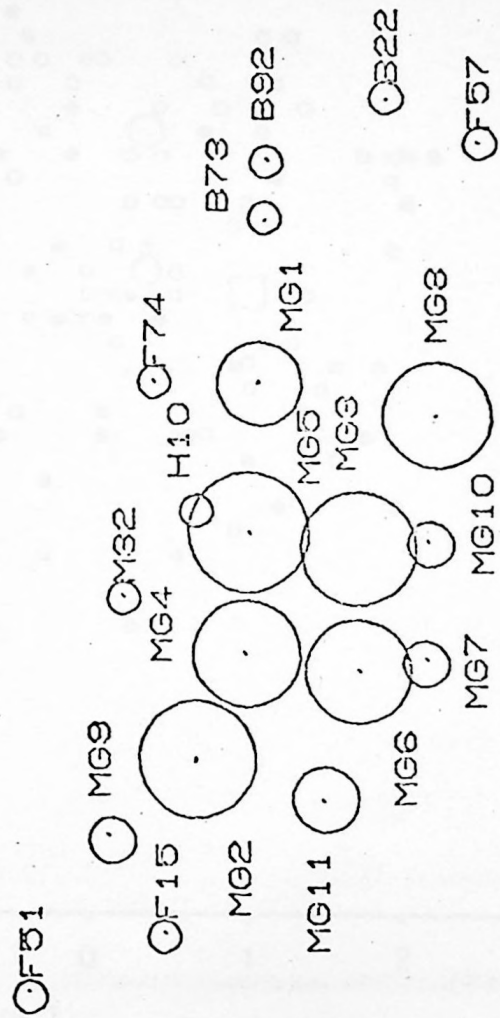
Key

Circles labelled MG are groups of more than 1 vessel produced by the cluster analysis; the area of the circle depends on the size of the group.

Other small circles represent individual vessels which did not fit into any of the clusters. The place of origin of these vessels is given by the alphabetic part of their identifier. B=Bohemia, F=Central Germany, H=Hungary, M=Moravia.

Stress of 2-dimensional solution is 0.070.

Simple Random Sample





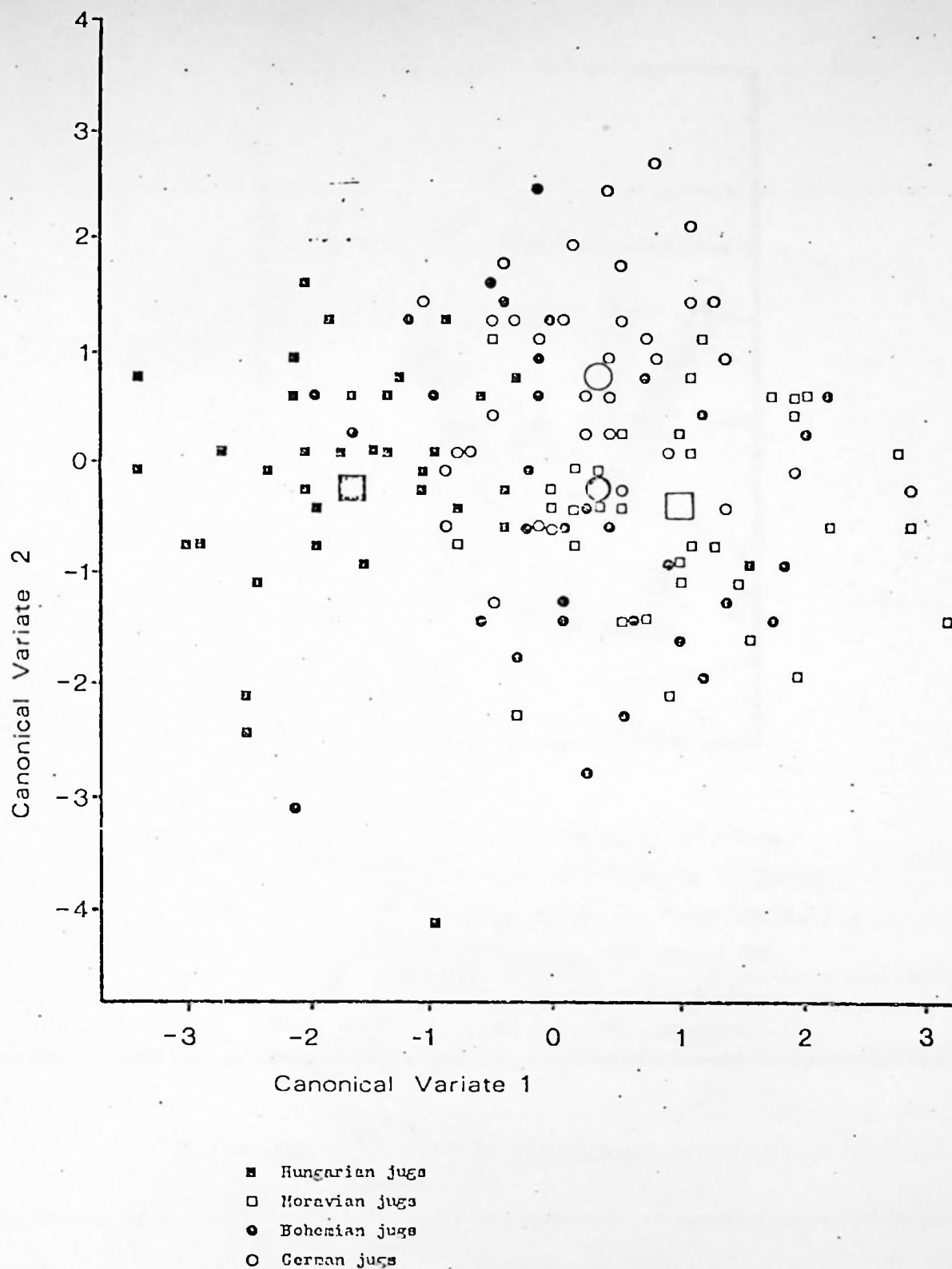


Figure 7.3 Scattergram of the undecorated jugs positioned in relation to the first and second canonical variates. The large symbols represent the means of their respective groups.



Figure 1. Scatter plot of the relationship between the two variables.

Legend:

- Data points
- Regression line
- Correlation coefficient
- P-value

The scatter plot shows a positive correlation between the two variables. The regression line indicates a positive slope, suggesting that as the independent variable increases, the dependent variable also tends to increase. The correlation coefficient and p-value provide statistical evidence for the strength and significance of this relationship.

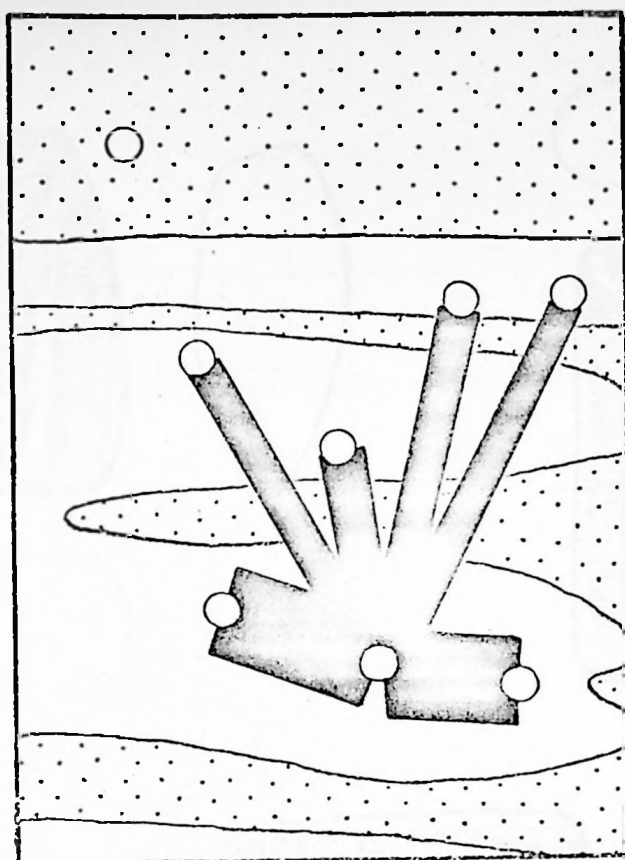
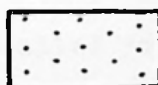


Figure 7.4 Effect of natural barriers on frequency of marriage between villages in the Appalachians (Fig. 22 from Gould, P., 1969. Spatial Diffusion Commission on College Geography, Resource Paper 4, Association of American Geographers. Washington DC).

Key:



Mountains

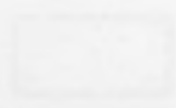


Valleys

Width of bars relates to frequency of marriage.



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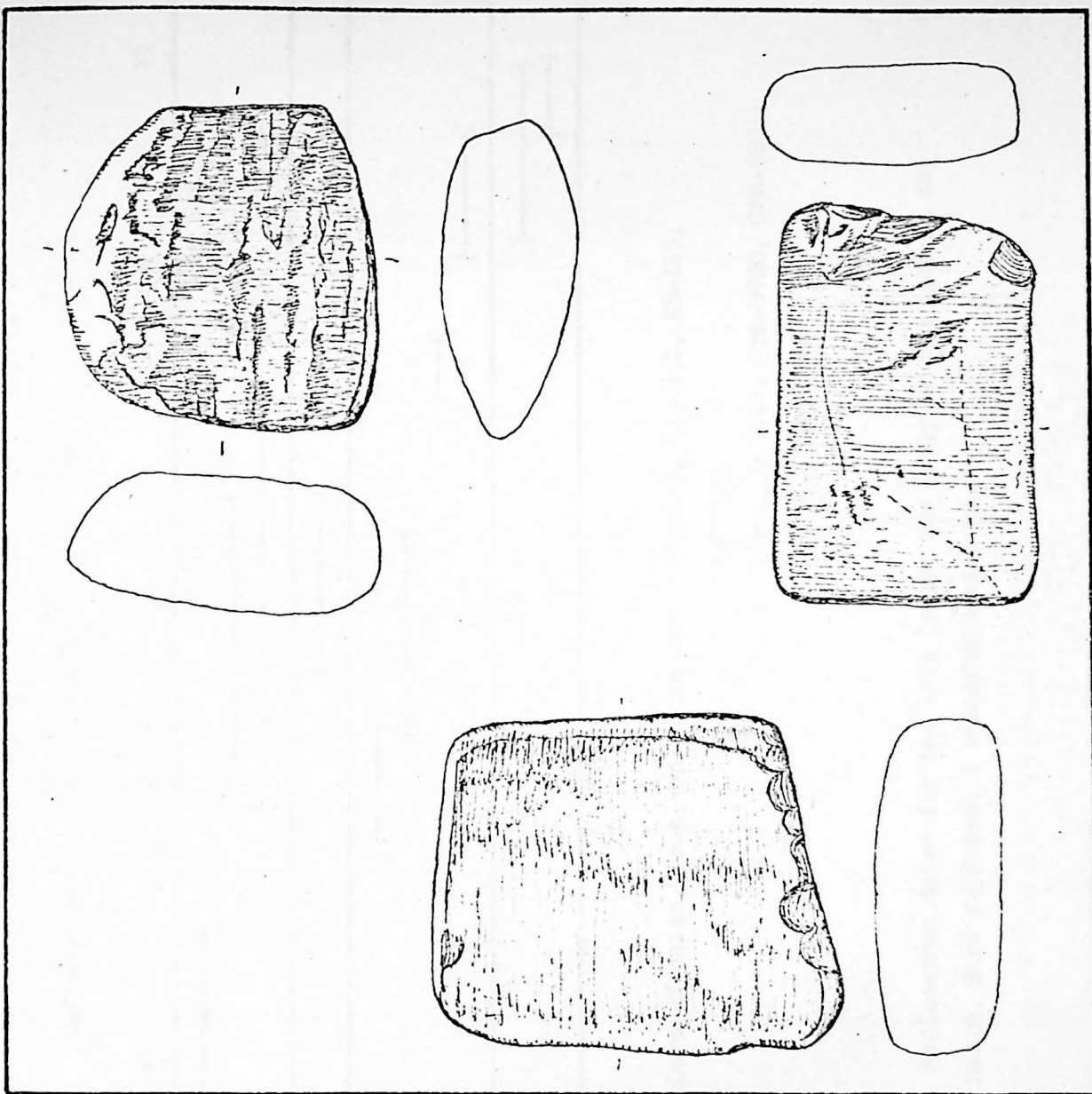


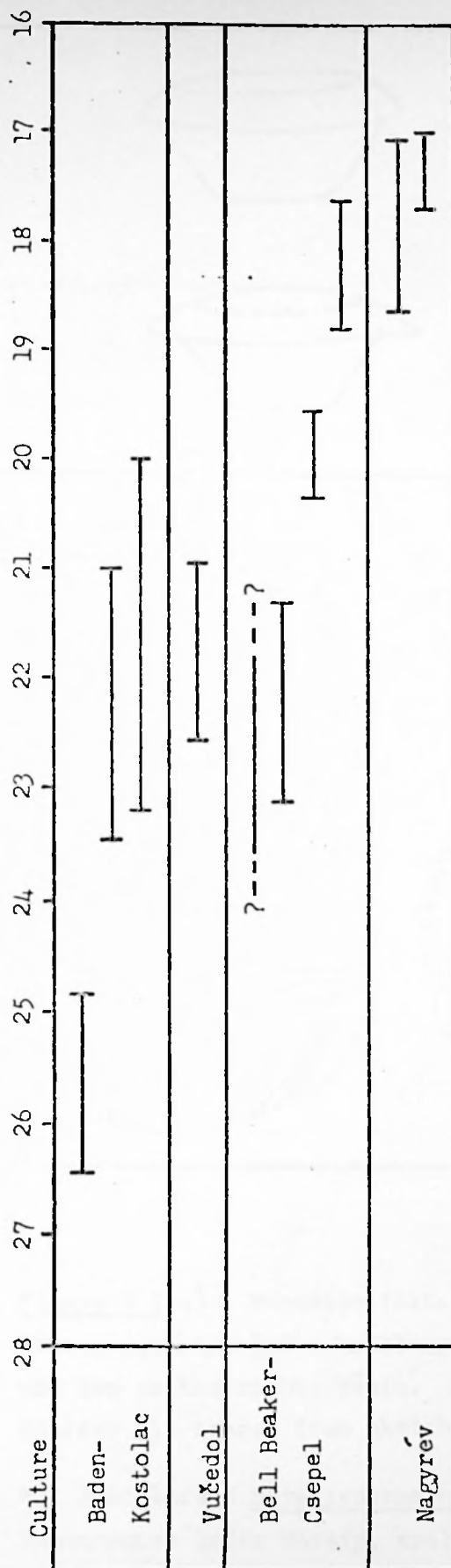
Figure 7.5 Three so-called 'cushion stones', probably connected with metal-working, from Grave X, Holěšov, Moravia.

(Source: Ondráček, J., unpublished report.)



Figure 1. The results of the experiment. The data shows that the system is able to learn the task and perform it with high accuracy. The results are presented in the table below.

Radiocarbon Years b.c. (numbers are in 100s)



Reference numbers of dates, from top to bottom: Bln-476, Bln-351, KN-145;
 Bln-564;
 Bln-?, Q-1122, Grn-6900, Grn-6901;
 Bln-340, Grn-6653.

Figure 8.1 Radiocarbon dates for the Late Copper and Early Bronze Ages in the Carpathian Basin. Bars represent 1 standard deviation.

IV	T										
		1	2	3	4	5	6	7	8	9	10
V	T										
		1	2	3	4	5	6	7	8	9	10
VI	T										
		1	2	3	4	5	6	7	8	9	10
VII	T										
		1	2	3	4	5	6	7	8	9	10
VIII	T										
		1	2	3	4	5	6	7	8	9	10
IX	T										
		1	2	3	4	5	6	7	8	9	10
X	T										
		1	2	3	4	5	6	7	8	9	10

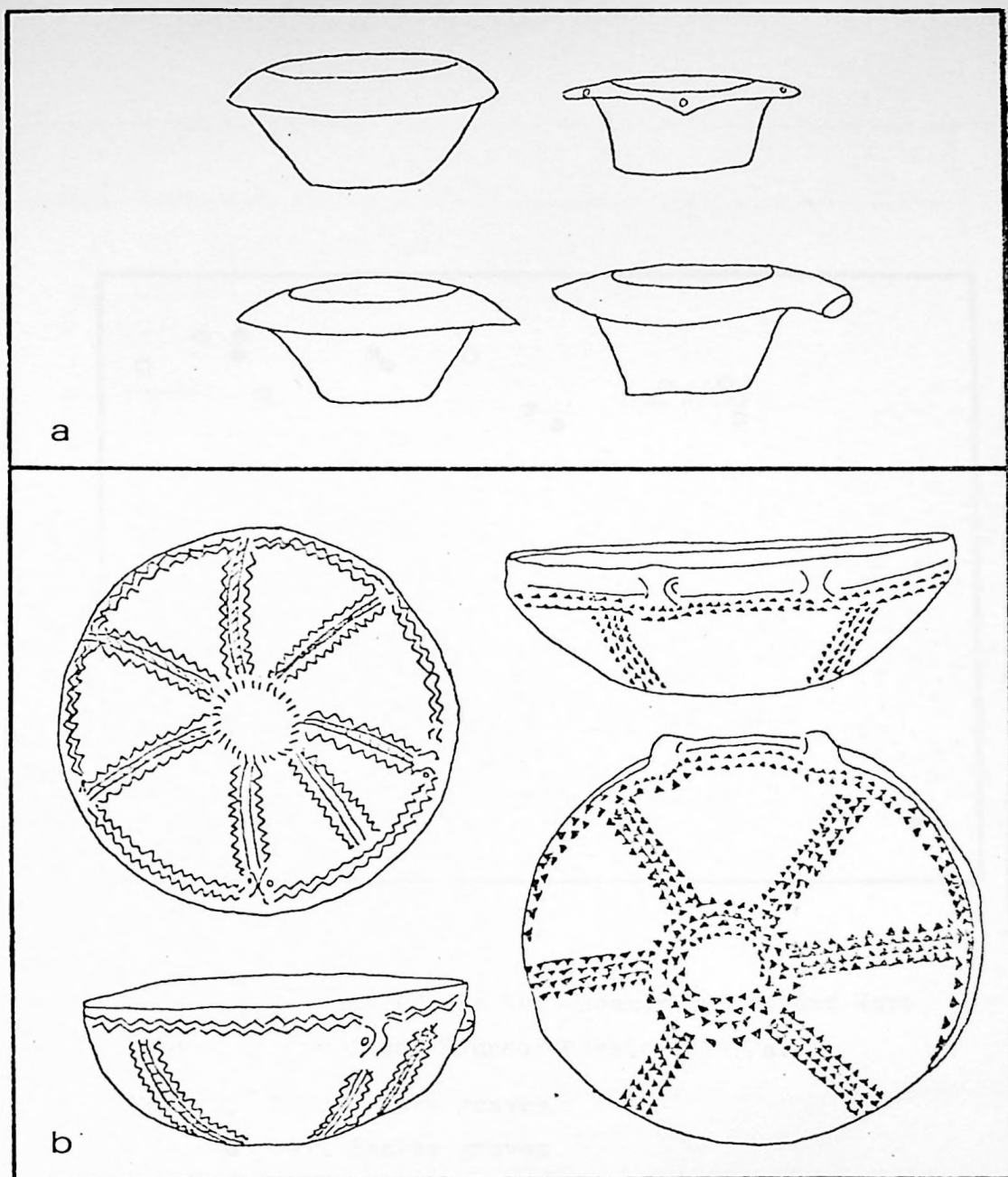


Figure 8.2 a) 4 Moravian 'hat-bowls'.

Provenance: top left: Opločany; bottom left: Nĕmčice nad Hanou;
the two on the right: Měnin. Scale: all 1:3.

Source: all traced from sketches in Červinka 1938b.

b) 2 Schönfeld Strahlenschalen from Moravia.

Provenance: left: Marefy, scale 1:5; right: Smržice,
scale 1:3.

Source: both traced from sketches in Červinka 1938b.

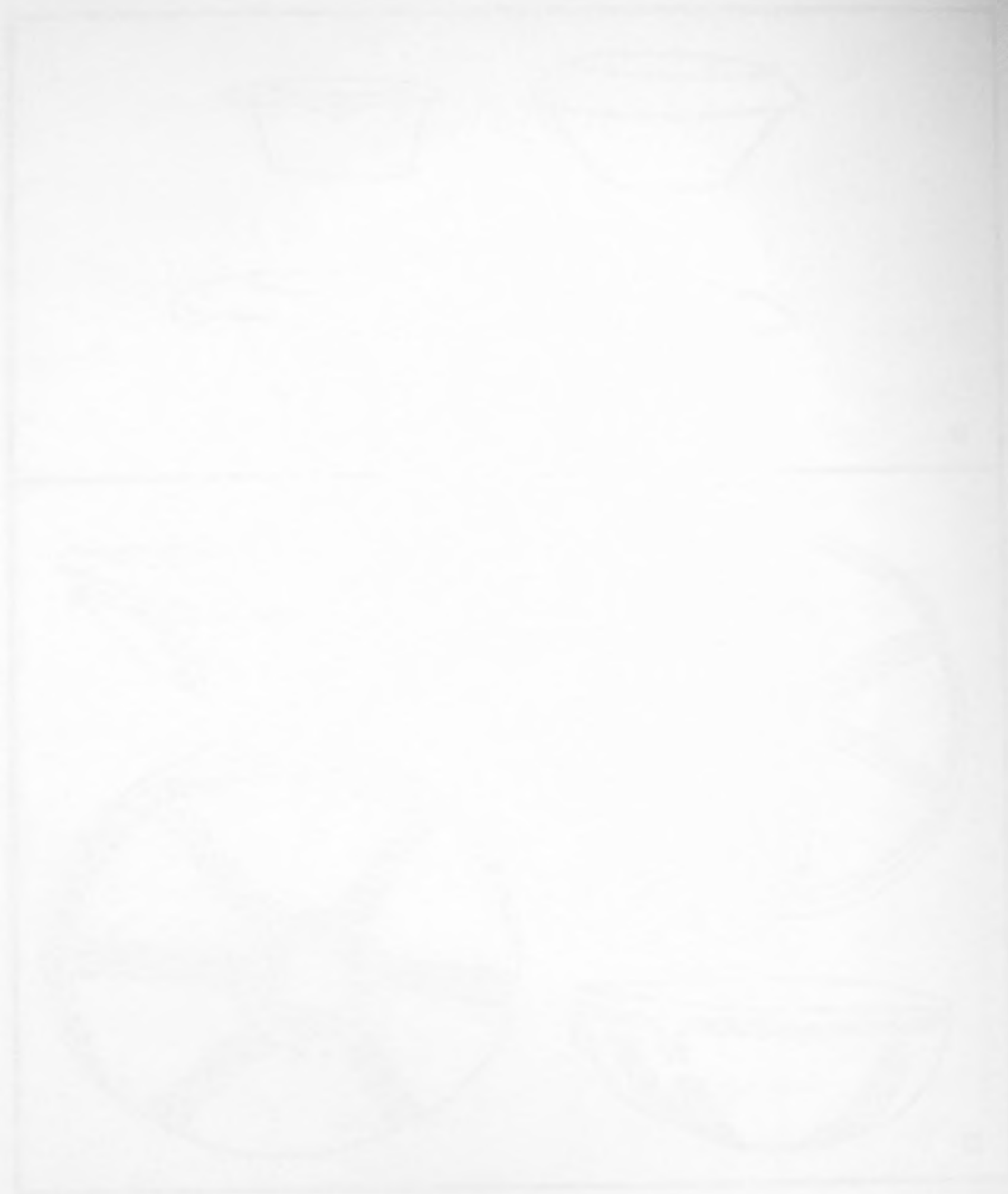


FIGURE 1. A diagram showing the relationship between the Earth and the Moon. The Earth is represented by a large circle on the left, and the Moon by a smaller circle on the right. The diagram illustrates the phases of the Moon as seen from Earth, with labels for the various phases: New Moon, First Quarter, Full Moon, and Last Quarter. The diagram also shows the relative positions of the Earth, Moon, and Sun, with the Sun represented by a small circle at the top right. The diagram is labeled with the letters A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and numbers 1 through 12.

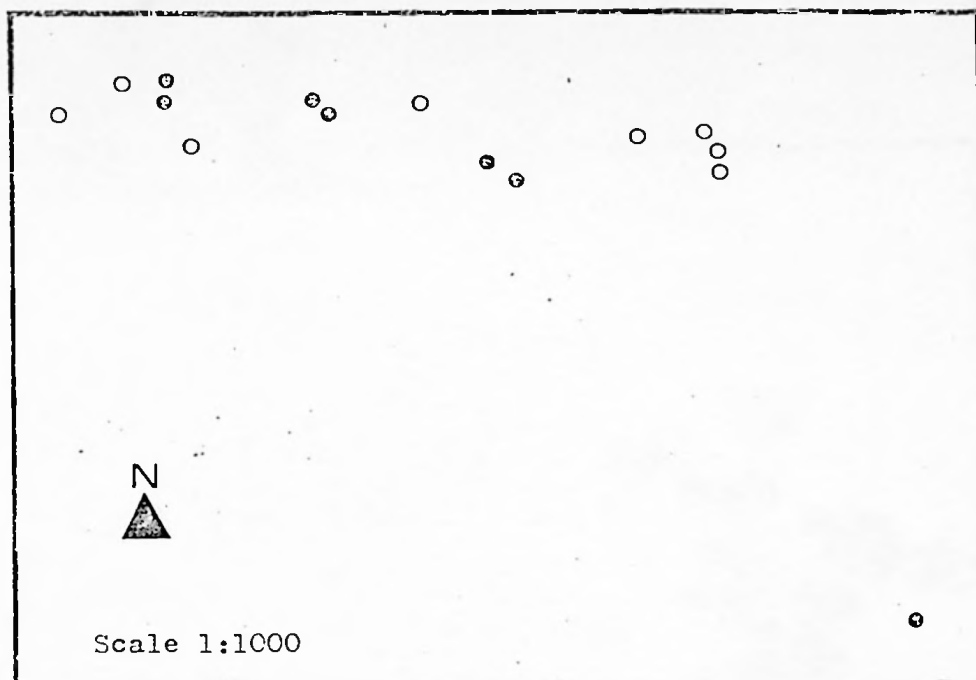


Figure 8.3 Plan of the Bell Beaker and Corded Ware graves at Lysolaje. Source: Pleslova 1972a.

Key: ○ Corded Ware graves
● Bell Beaker graves



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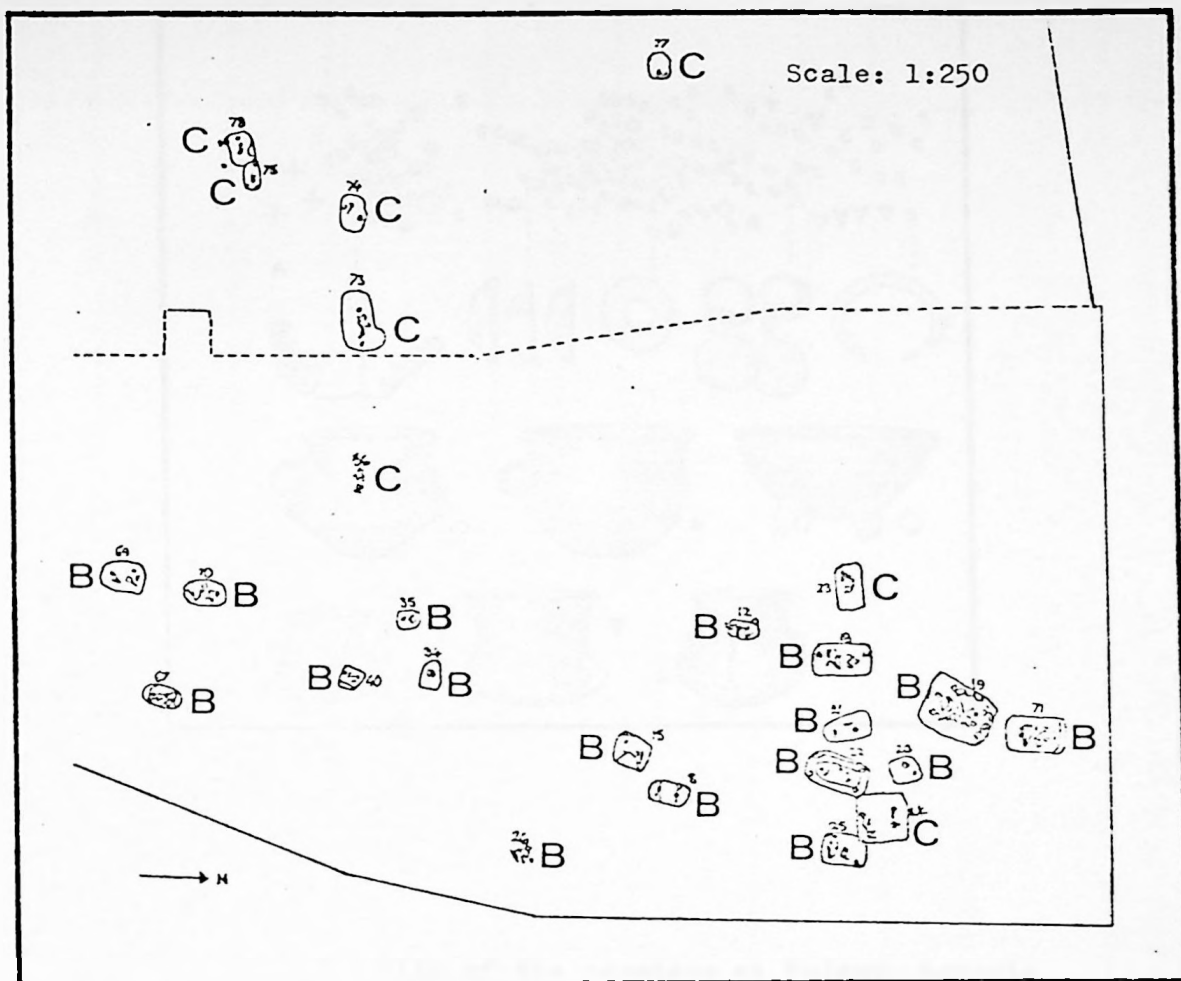


Figure 8.4 Plan of the Bell Beaker and Corded Ware graves at Brandýsek. Source: Kytlicová 1960.

Key: C Corded Ware graves
B Bell Beaker graves



Figure 1. Map of the study area showing the location of the study sites (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z) and the surrounding environment. The map includes a scale bar and a north arrow.

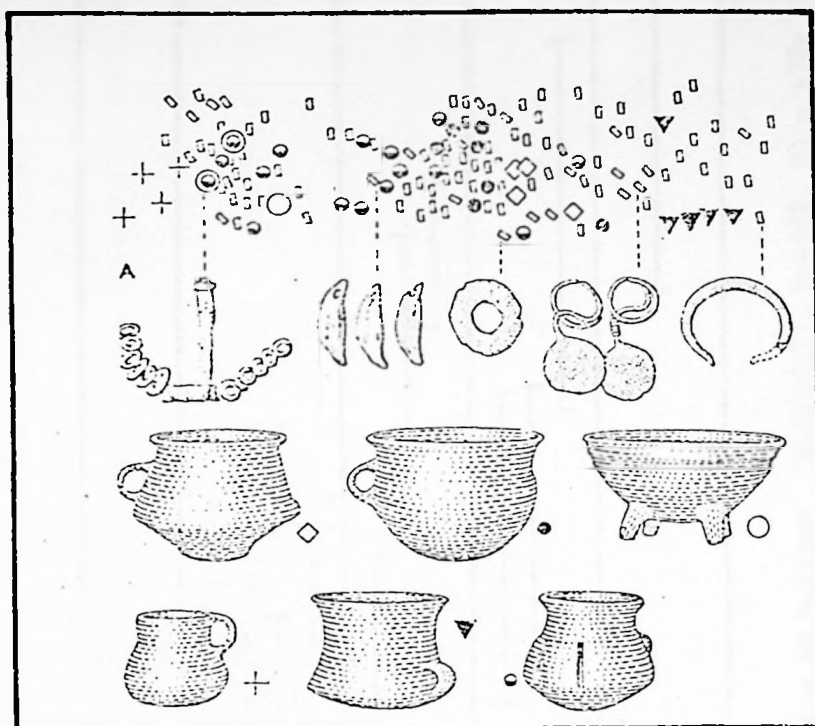


Figure 8.5 Plan of the cemetery at Polepy, Bohemia.
Source: Müller-Karpe 1974, Plate 525.

Key: + Graves with jugs of the type associated
with Bell Beakers.

▼ Late Unetice cups.



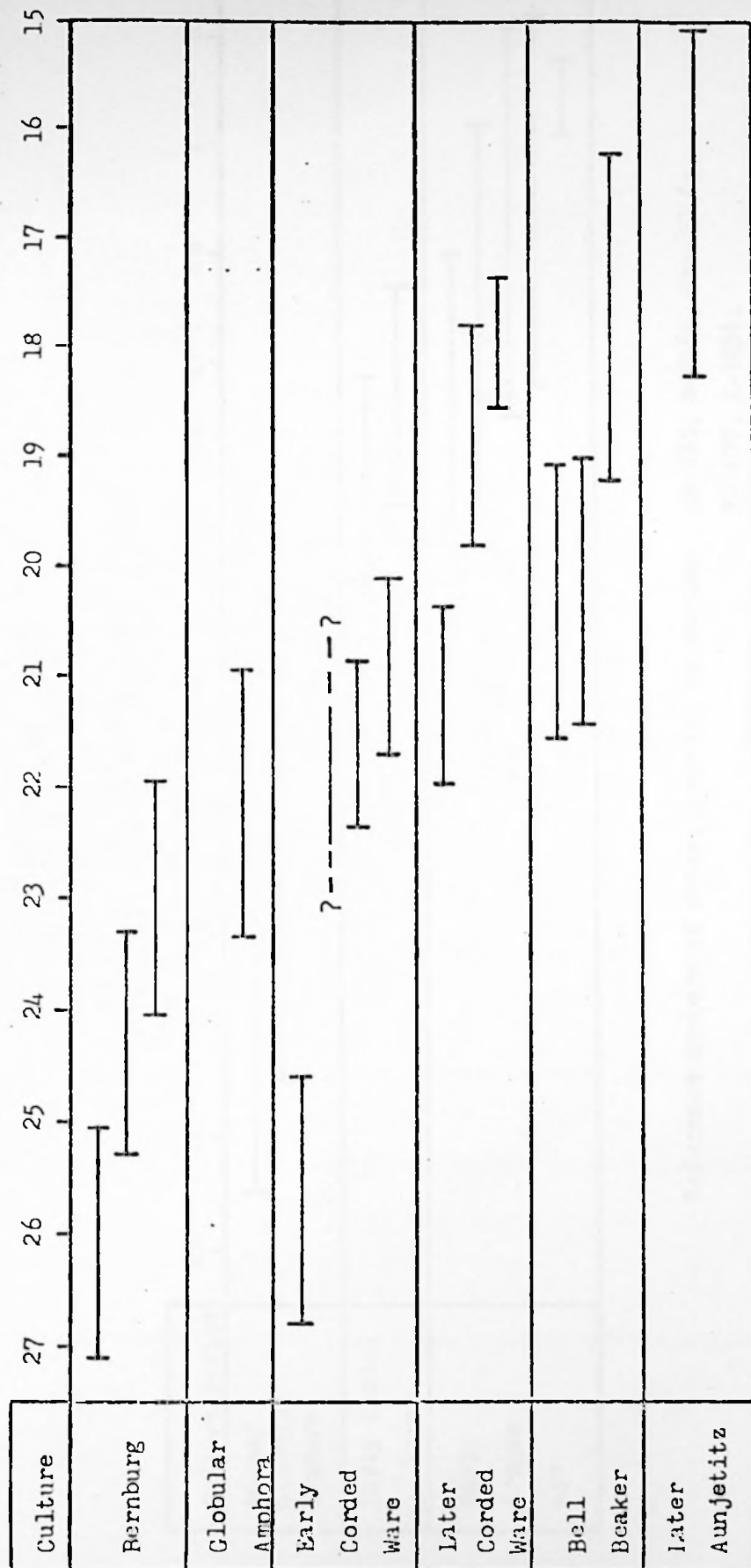
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Radiocarbon Years b.c. (numera are in 100s)



Reference numbers of dates, from top to bottom:

Bln-342;

H-253/208, K-?, H-572/919, Grn-4058;

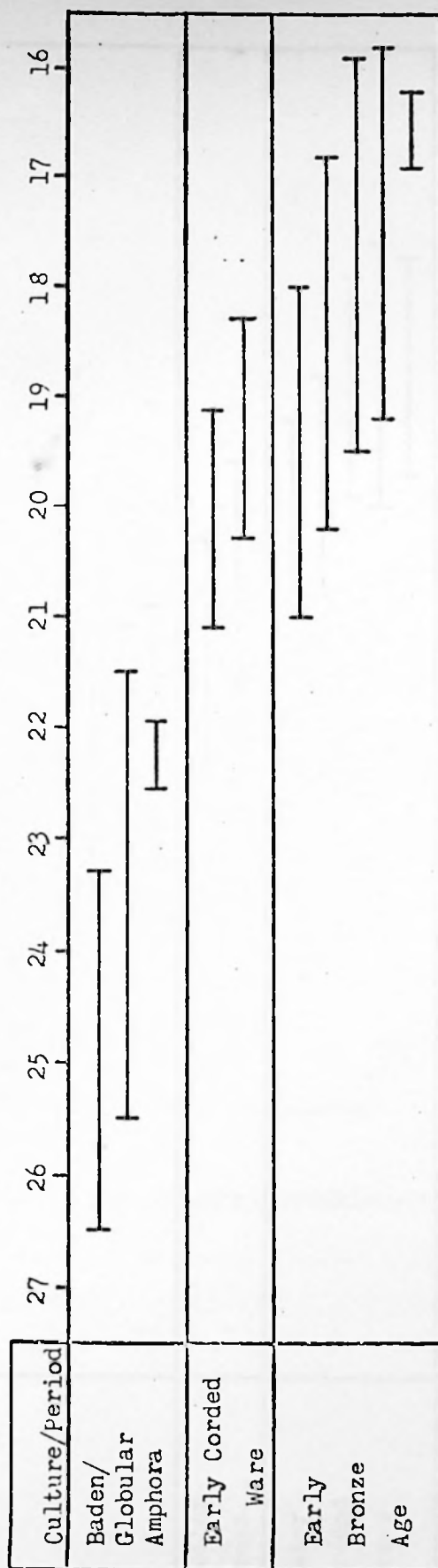
Bln-533, Bln-166, H-2123/1538;

Bln-550, H-28/33, H-27/25;

Bln-248.

Figure 8.6 Radiocarbon dates for the later Neolithic in Central Germany. Bars represent 1 standard deviation.

Radiocarbon Years b.c. (numbers are in 100s)



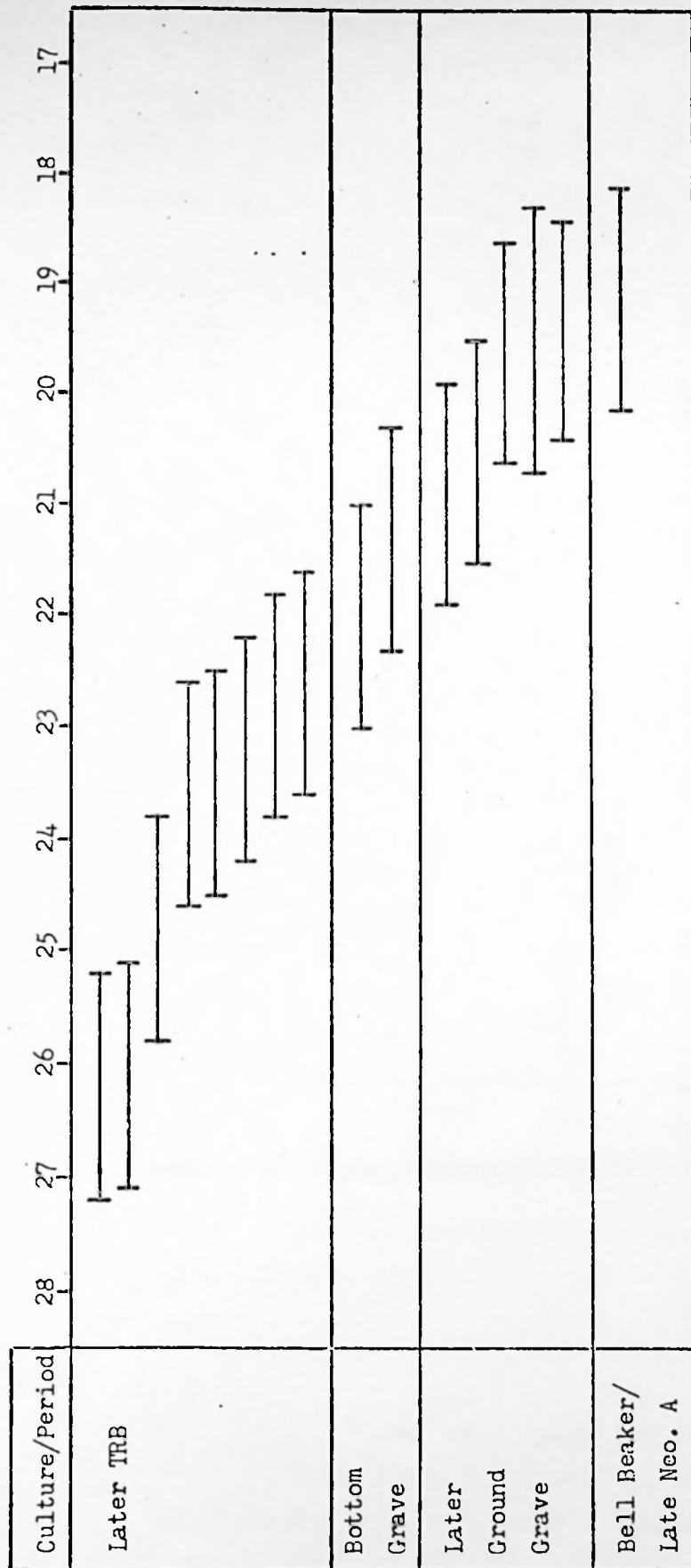
Reference numbers of dates, from top to bottom: KN-225, M-2166, Grn-5046;

K-1837, K-1836;

M-1325, M-2328, M-2168, M-2325, Grn-5037.

Figure 8.7 Radiocarbon dates for the later Neolithic and Early Bronze Age in Poland (bars represent 1 standard deviation).

Radiocarbon Years b.c. (numbers are in 100s)



Reference numbers of dates, from top to bottom: K-1566, K-1568, K-1567, K-1789, K-1571, K-1573, K-1572, K-1574;
 K-1582, K-1483;
 K-1569, K-1451, K-1831, K-1284, K-1138;
 K-2067

Figure 8.8 Radiocarbon dates for the later Neolithic in Denmark (bars represent 1 standard deviation).

Figure 1. The effect of the concentration of the inhibitor on the rate of the reaction.

Concentration of the inhibitor (M)

Rate of the reaction (M/s)

The rate of the reaction decreases as the concentration of the inhibitor increases.



Figure 1. The effect of the concentration of the inhibitor on the rate of the reaction.

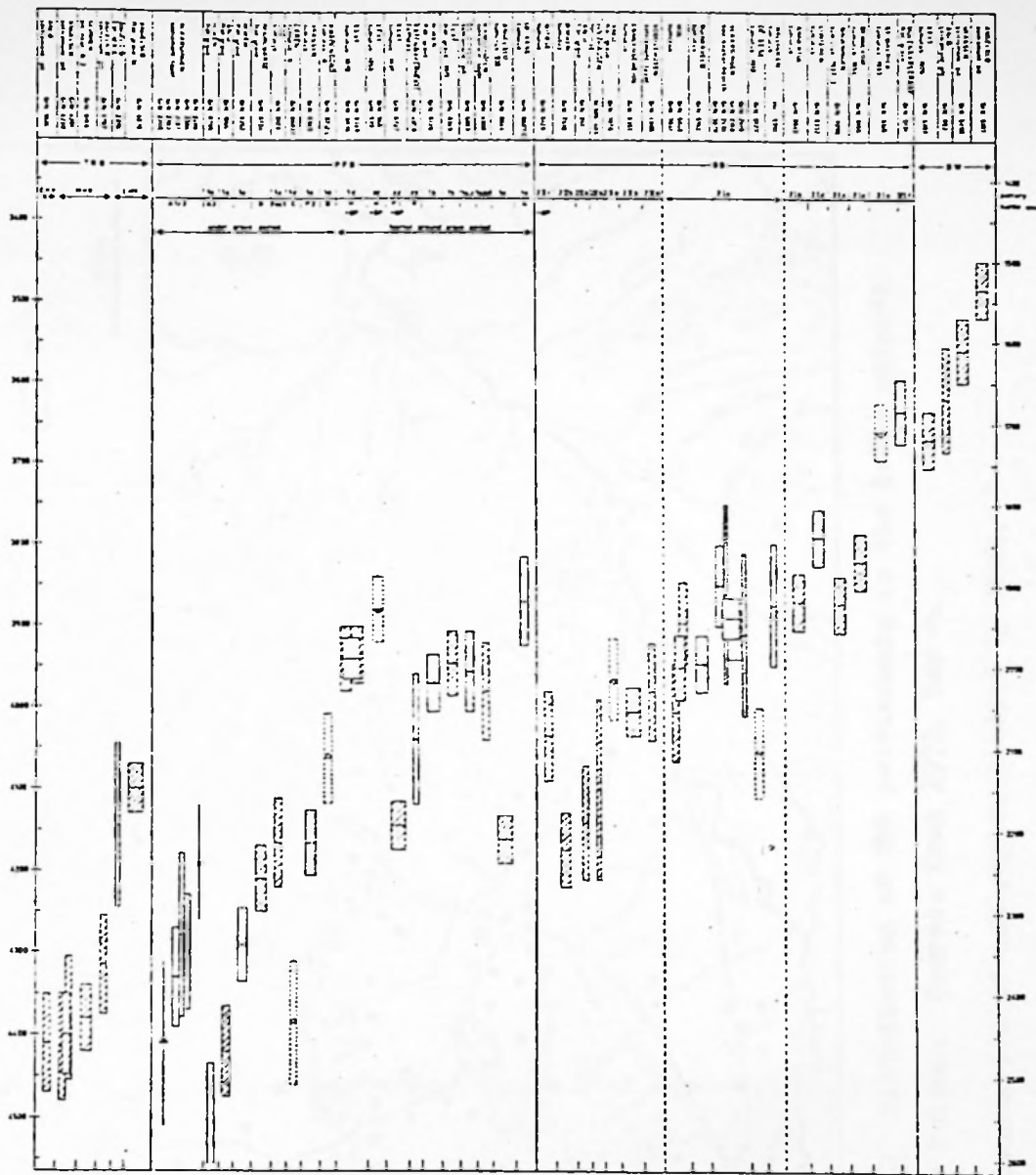


Figure 8.9 Radiocarbon dates for the later Neolithic in the Netherlands. From Lanting, Mook, and van der Waals 1973. Bars represent 1 standard deviation.



Figure 1. A schematic diagram of the experimental setup. The diagram shows a cross-section of a system with various components labeled. The labels are difficult to read due to the low contrast of the image, but they appear to include terms like 'Input', 'Output', 'Control', and 'Feedback'.

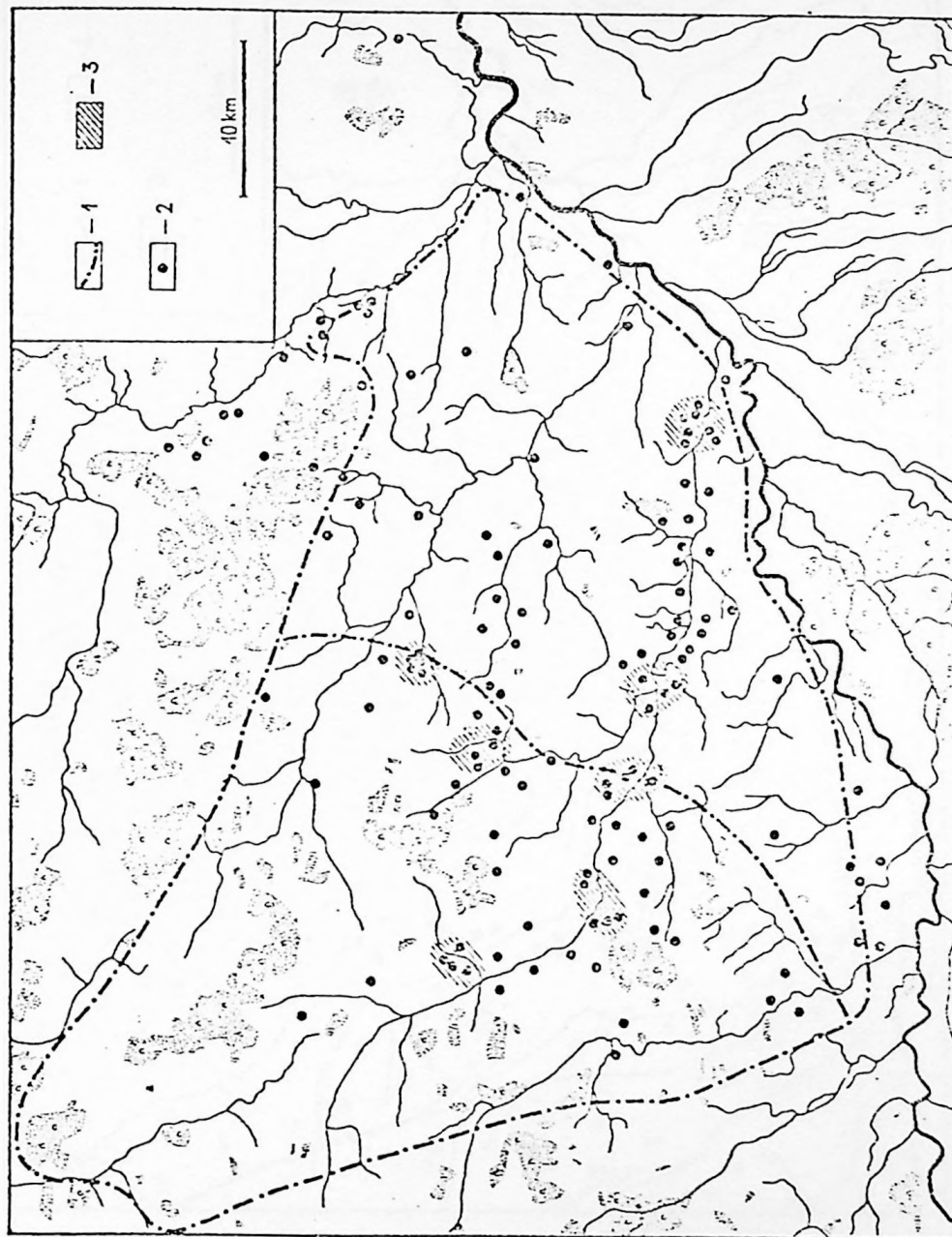


Figure 9.1 Distribution of TRB settlements in the loess uplands of Little Poland. Source: Kruk 1973, Map 6.

- Key: 1. Boundaries of sub-region studied by Kruk.
 2. Settlements.
 3. Some zones of intensive settlement.

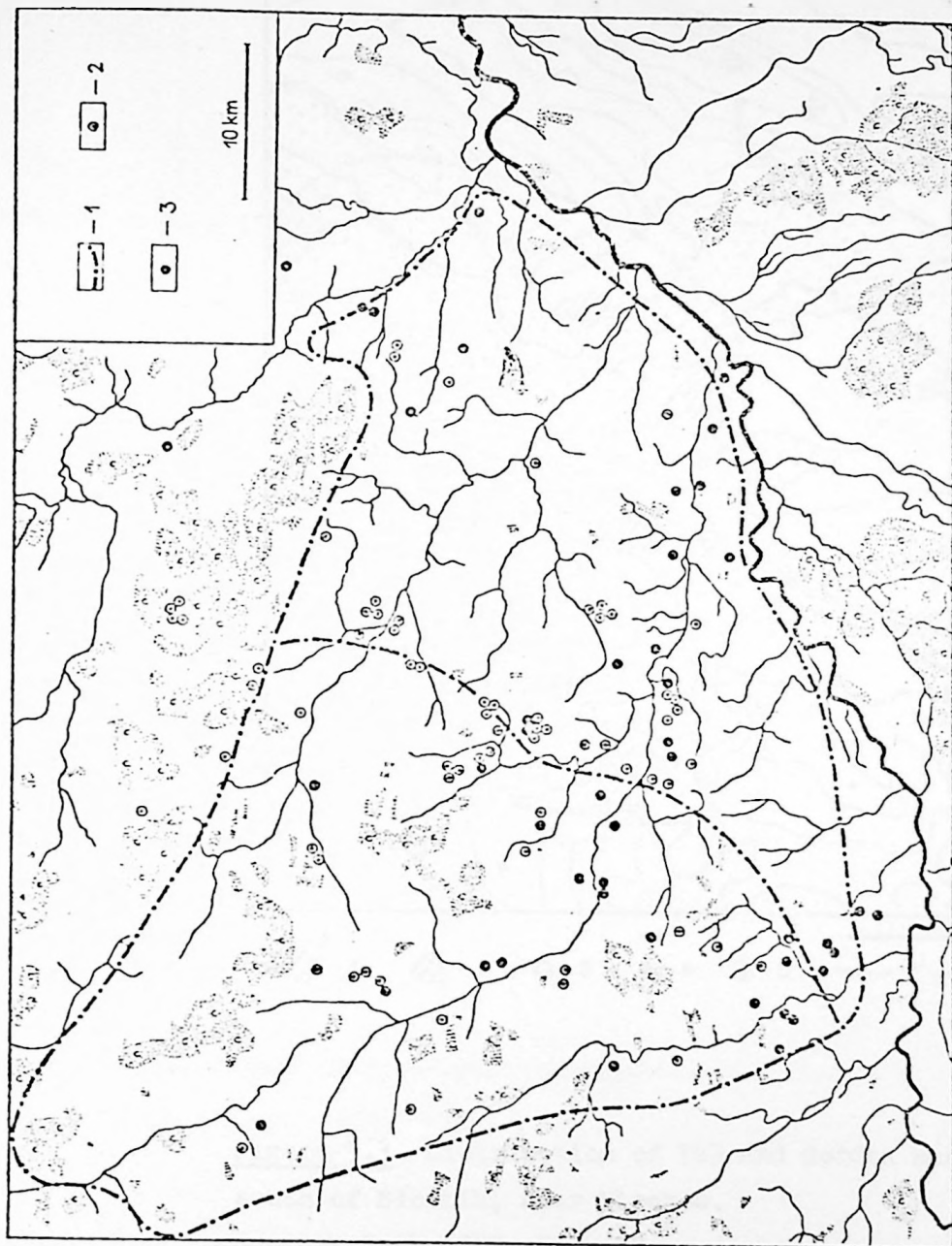


Figure 9.2 Distribution of Corded Ware sites in the loess uplands of Little Poland. Source: Kruk 1973, Map 7.

Key: 1. Boundaries of sub-region studied by Kruk.
 2. Barrows.
 3. Flat graves and isolated finds.

1. The first part of the paper is devoted to a

brief review of the

work of the various authors who have

dealt with the problem of the

existence of the solutions of the

problem of the existence of the



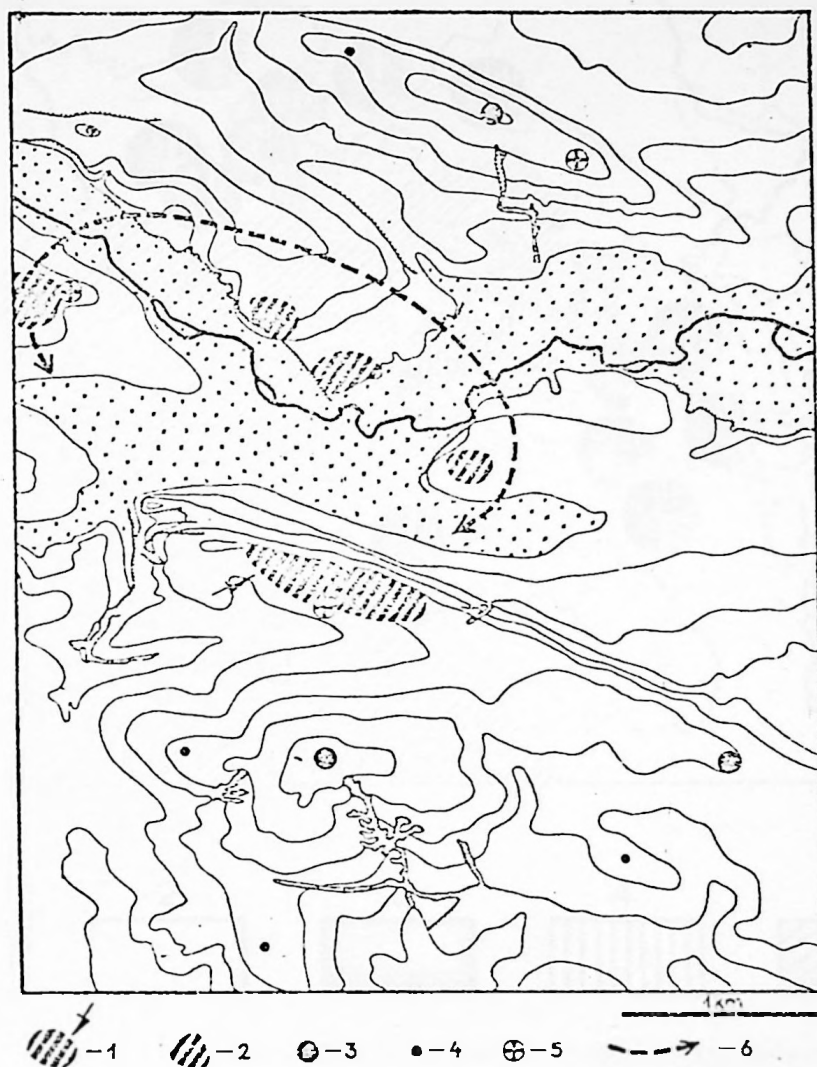


Figure 9.3 Distribution of TRB and Corded Ware sites south of Slomnik, near Miechow.

Source: Kruk 1973, Fig. 13.

- Key:
- 1. Large settlements.
 - 2. Smaller settlements.
 - 3. Camps.
 - 4. Isolated Finds.
 - 5. Corded Ware flat graves.
 - 6. Grouping of valley settlement of TRB culture.



Figure 1. Distribution of the population of the
 State of Illinois, 1900-1910.
 (Source: U.S. Census Bureau, 1911.)
 1. Large cities.
 2. Medium cities.
 3. Small cities.
 4. Unincorporated places.
 5. Unsettled lands.
 6. Divided of other counties of the State.

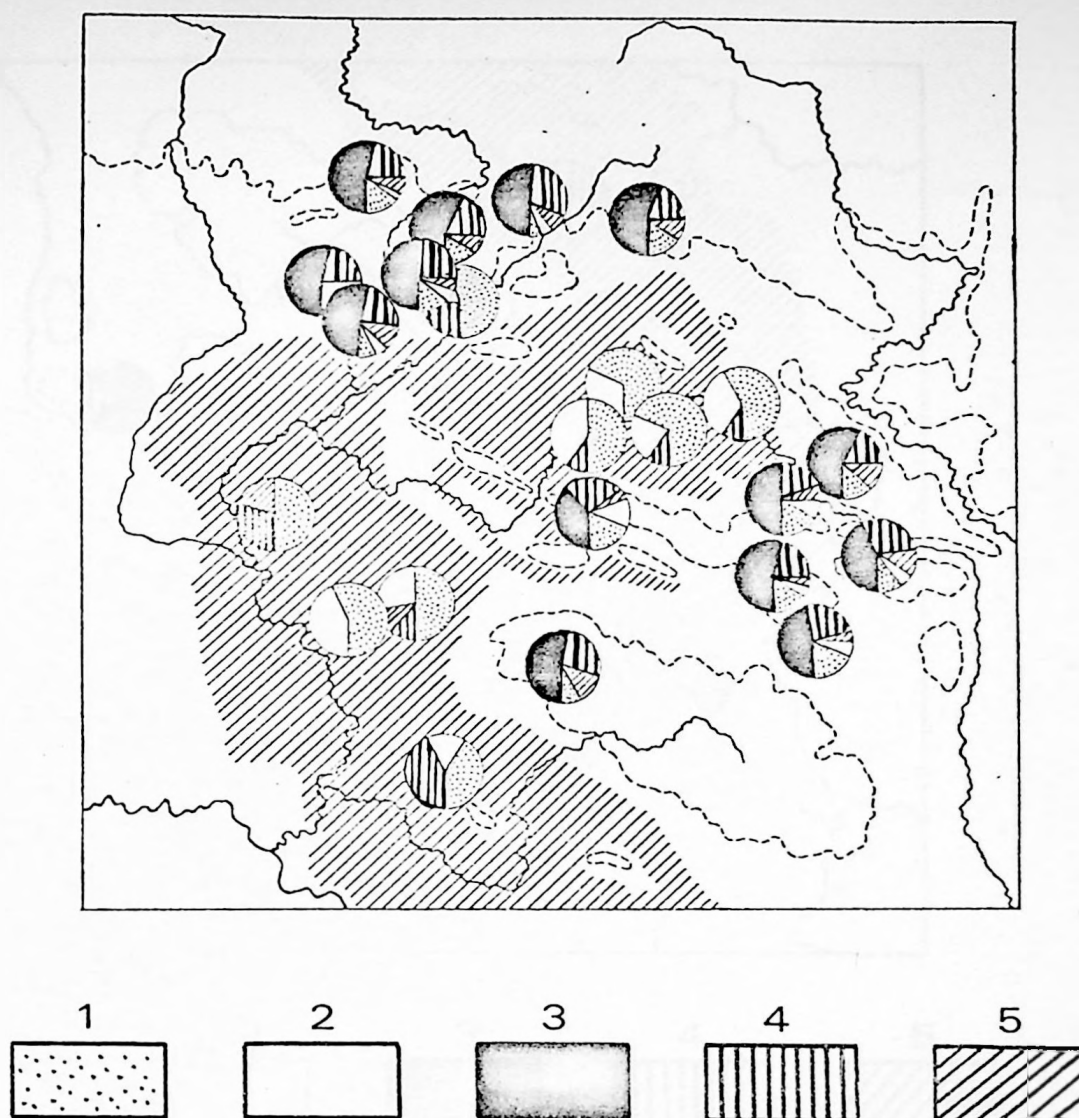


Figure 9.4 Relative proportions of different types in mollusc associations of the Atlantic period from the middle Elbe-Saale area. Source: Mania 1972, Fig.10.

- Key:
- 1. Open landscape types
 - 2. True steppe types
 - 3. True forest types
 - 4. Forest-steppe types
 - 5. Meadow and bog types

Hatched area of map indicates the distribution of black earth and degraded black earth.



Figure 2.4. Relative frequency of occurrence of the five colors in the United States. The colors are defined as follows: 1. Light blue, 2. Light green, 3. Light yellow, 4. Light orange, 5. Light red. The relative frequency of occurrence of each color is shown in the following table:

Color	Relative Frequency of Occurrence
1. Light blue	0.10
2. Light green	0.20
3. Light yellow	0.30
4. Light orange	0.25
5. Light red	0.15

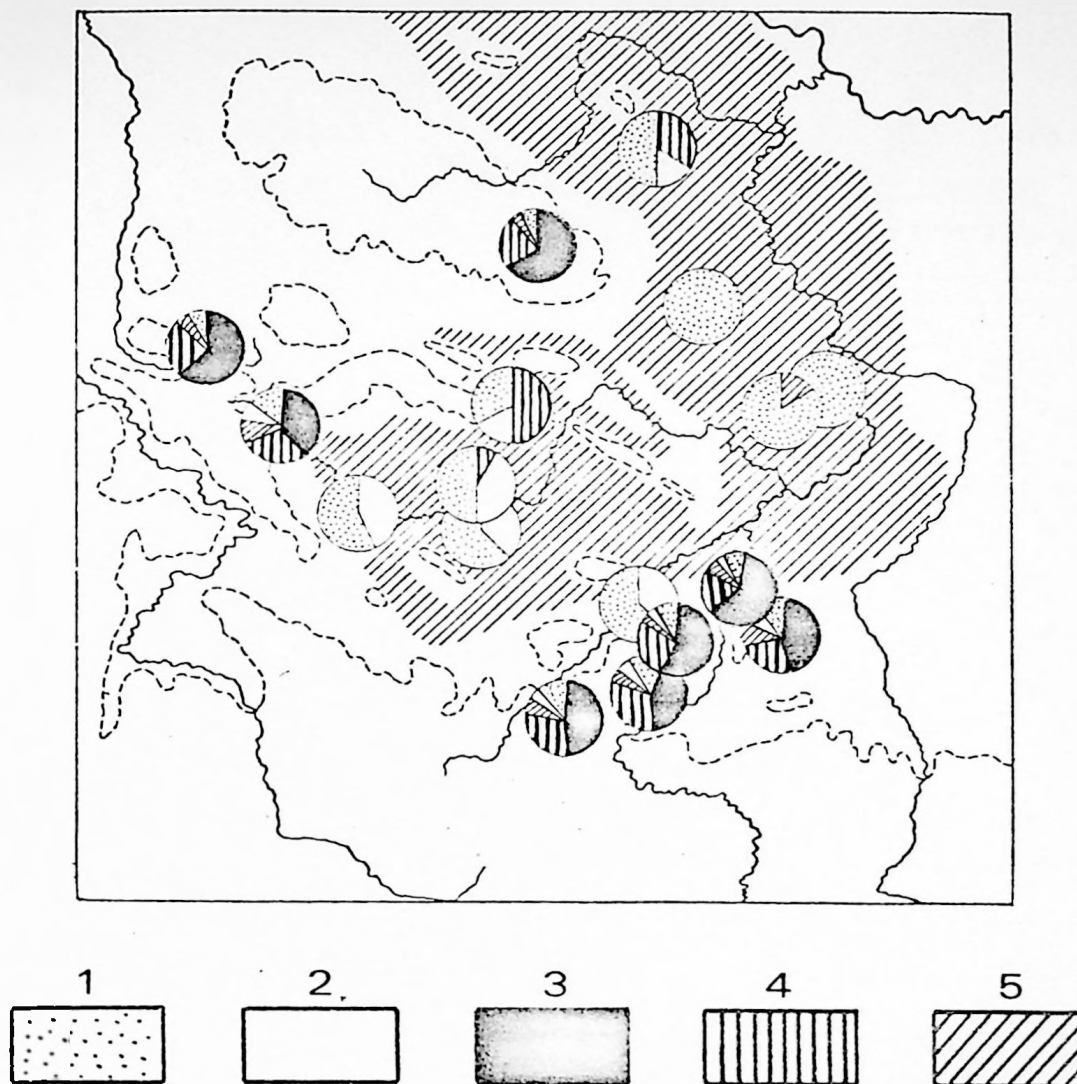


Figure 9.5 Relative proportions of different types in mollusc associations of the Sub-boreal period from the middle Elbe-Saale area. Source: Mania 1972, Fig.11.

Key: 1. Open landscape types
 2. True steppe types
 3. True forest types
 4. Forest-steppe types
 5. Meadow and bog types

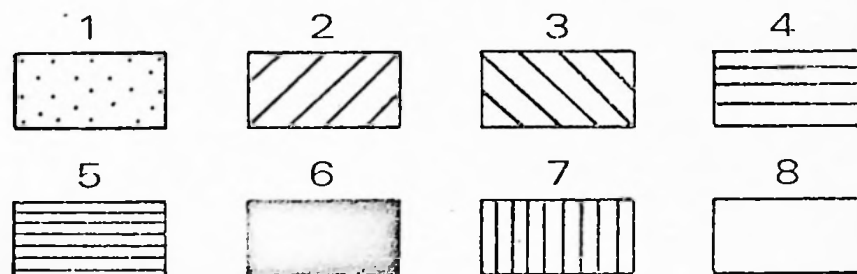
Hatched area of map indicates the distribution of black earth and degraded black earth.

Figure 9.6 The distribution of the later Neolithic cultures of the Saale area, Central Germany, in relation to soil types.

- a) The Baalberg group
- b) The Walternienburg-Bernburg group
- c) Corded Ware
- d) Bell Beakers

Source: Soil map: Preuss 1966

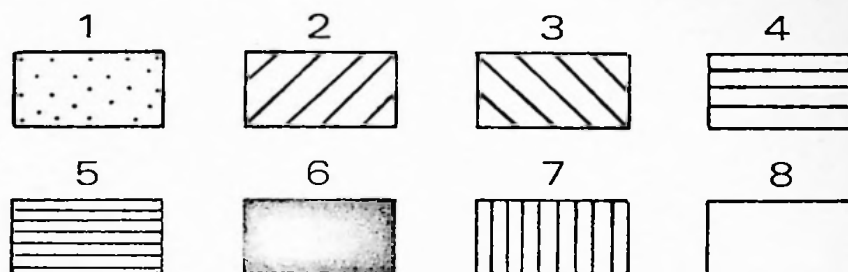
Distributions: Behrens 1973



- Key:
- 1. Black earth on loess
 - 2. Black earth on detritus marl
 - 3. Degraded black earth on loess
 - 4. Forest soils on loess
 - 5. Forest soils on silt and sand
 - 6. Moorland soils
 - 7. Rocky soils
 - 8. Wet soils



Figure 9.6a Baalberg group



- Key:
1. Black earth on loess
 2. Black earth on detritus marl
 3. Degraded black earth on loess
 4. Forest soils on loess
 5. Forest soils on silt and sand
 6. Moorland soils
 7. Rocky soils
 8. Wet soils

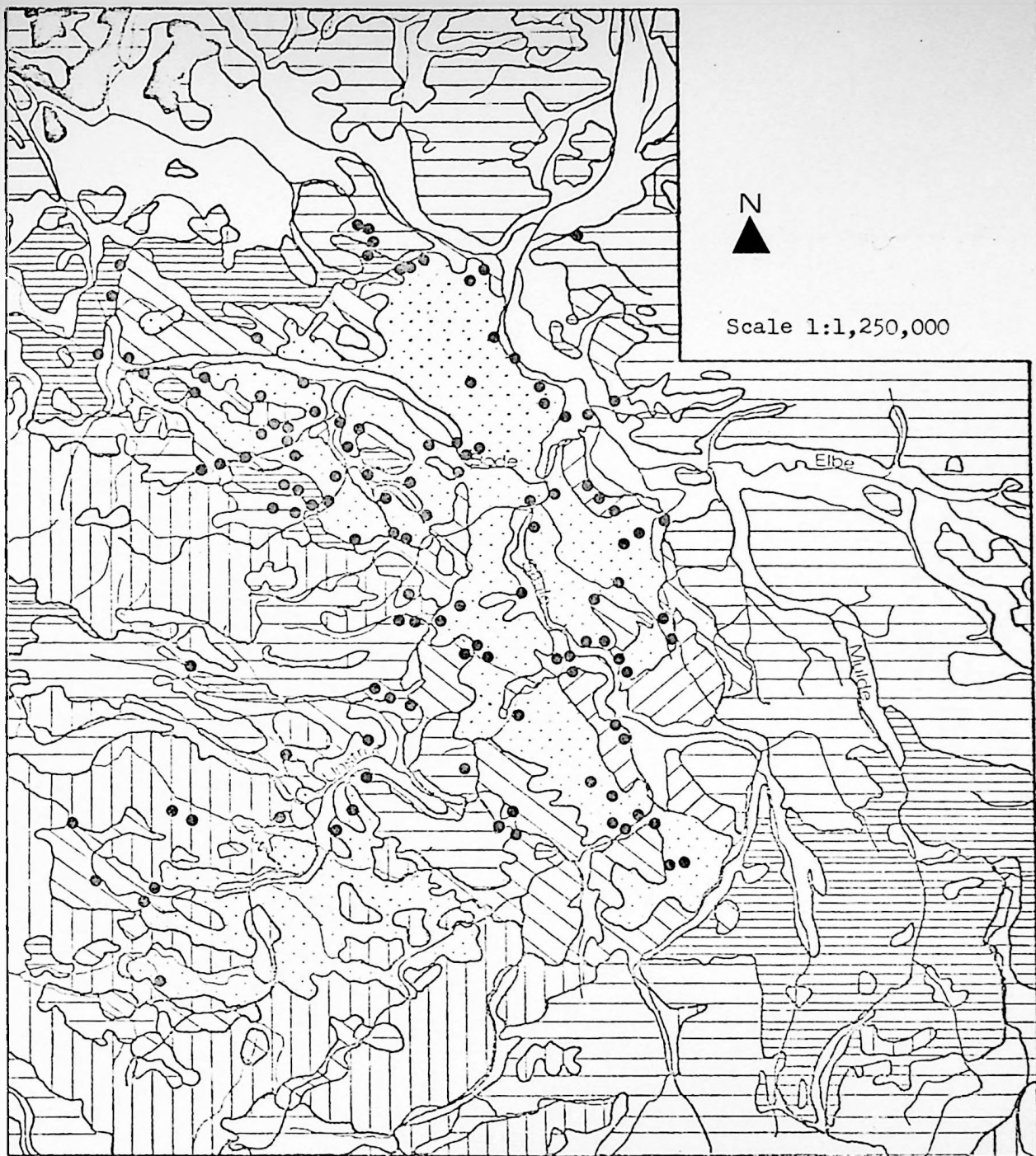
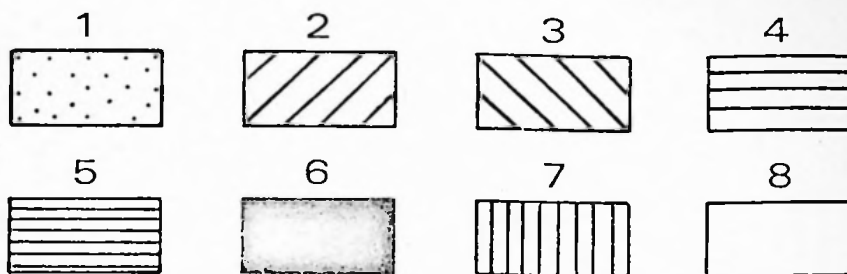


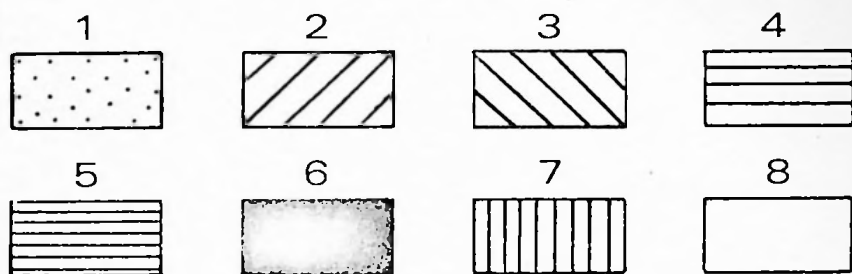
Figure 9.6b Walternienburg-Bernburg group



- Key:
1. Black earth on loess
 2. Black earth on detritus marl
 3. Degraded black earth on loess
 4. Forest soils on loess
 5. Forest soils on silt and sand
 6. Moorland soils
 7. Rocky soils
 8. Wet soils



Figure 9.6c Corded Ware



- Key:
- 1. Black earth on loess
 - 2. Black earth on detritus marl
 - 3. Degraded black earth on loess
 - 4. Forest soils on loess
 - 5. Forest soils on silt and sand
 - 6. Moorland soils
 - 7. Rocky soils
 - 8. Wet soils

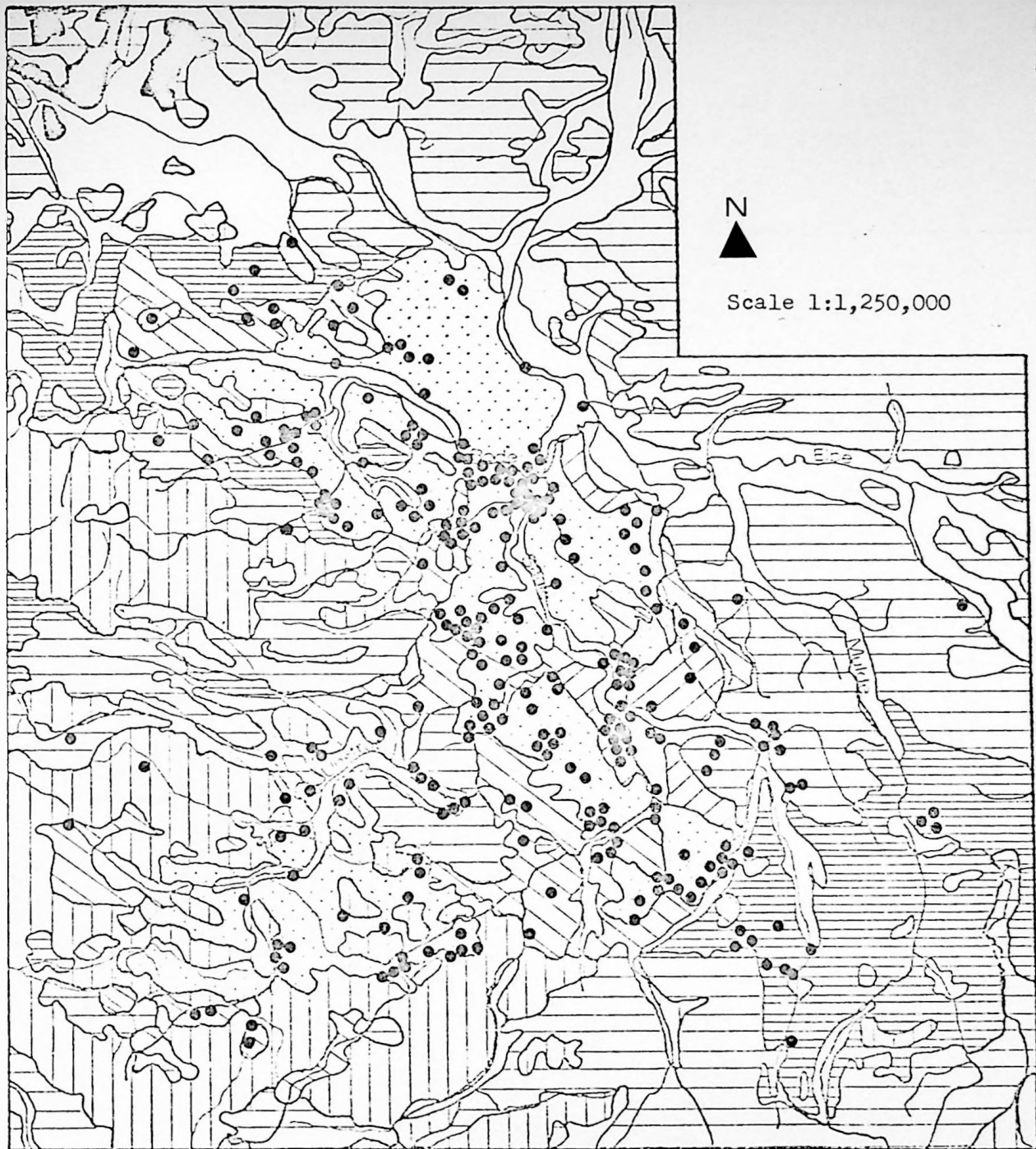


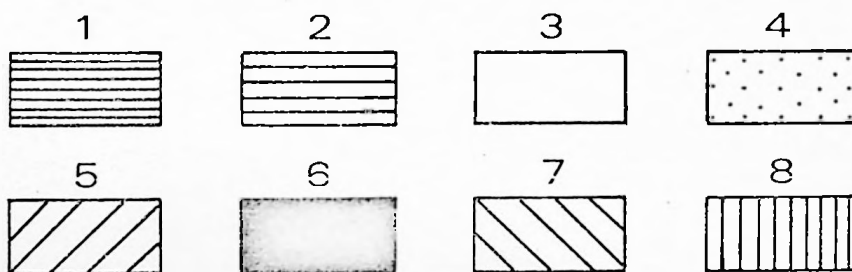
Figure 9.6d Bell Beakers

Figure 9.7 The distribution of the Eneolithic cultures of Bohemia and Moravia, in relation to soil types.

- a) TRB
- b) Řivnáč and Jevišovice B
- c) Corded Ware
- d) Bell Beakers

Sources: soil map: Atlas Československé Socialistické Republiky Republiky, Prague 1966.

distributions: TRB: Preuss 1966
 Řivnáč/Jevišovice B: Pleslova-
 Stiková 1966.
 Corded Ware: Buchvaldek 1968
 Bell Beakers: Hájek 1966a



- Key:
- 1. Chernozem
 - 2. Brown soils
 - 3. Podsollic soils and brown forest soils
 - 4. Brown forest soils of mountains.
 - 5. Podsoles of mountains
 - 6. Grey forest soils
 - 7. Rendzina soils
 - 8. Soils of flood plain

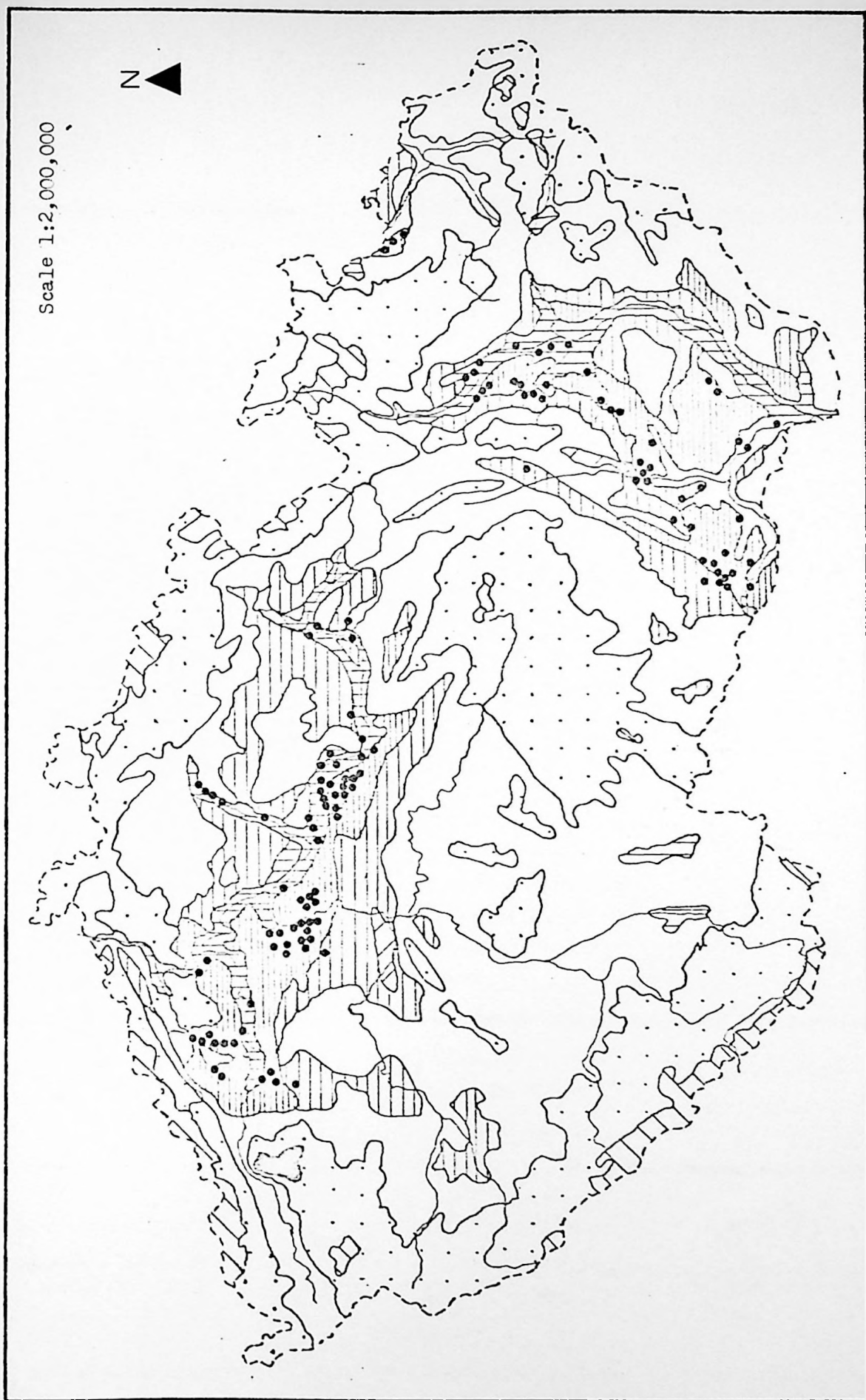
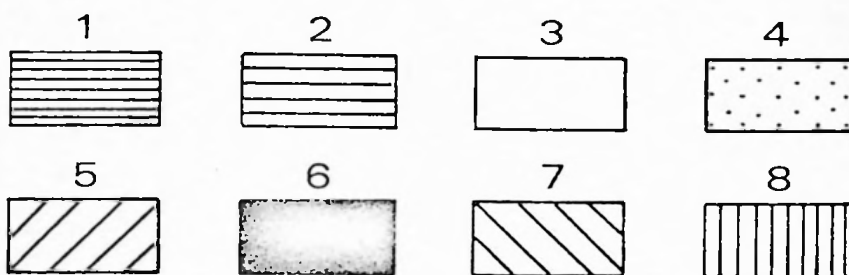


Figure 9.7a TRB culture



- Key:
1. Chernozem
 2. Brown soils
 3. Podsollic soils and brown forest soils
 4. Brown forest soils of mountains.
 5. Podsols of mountains
 6. Grey forest soils
 7. Rendzina soils
 8. Soils of flood plain

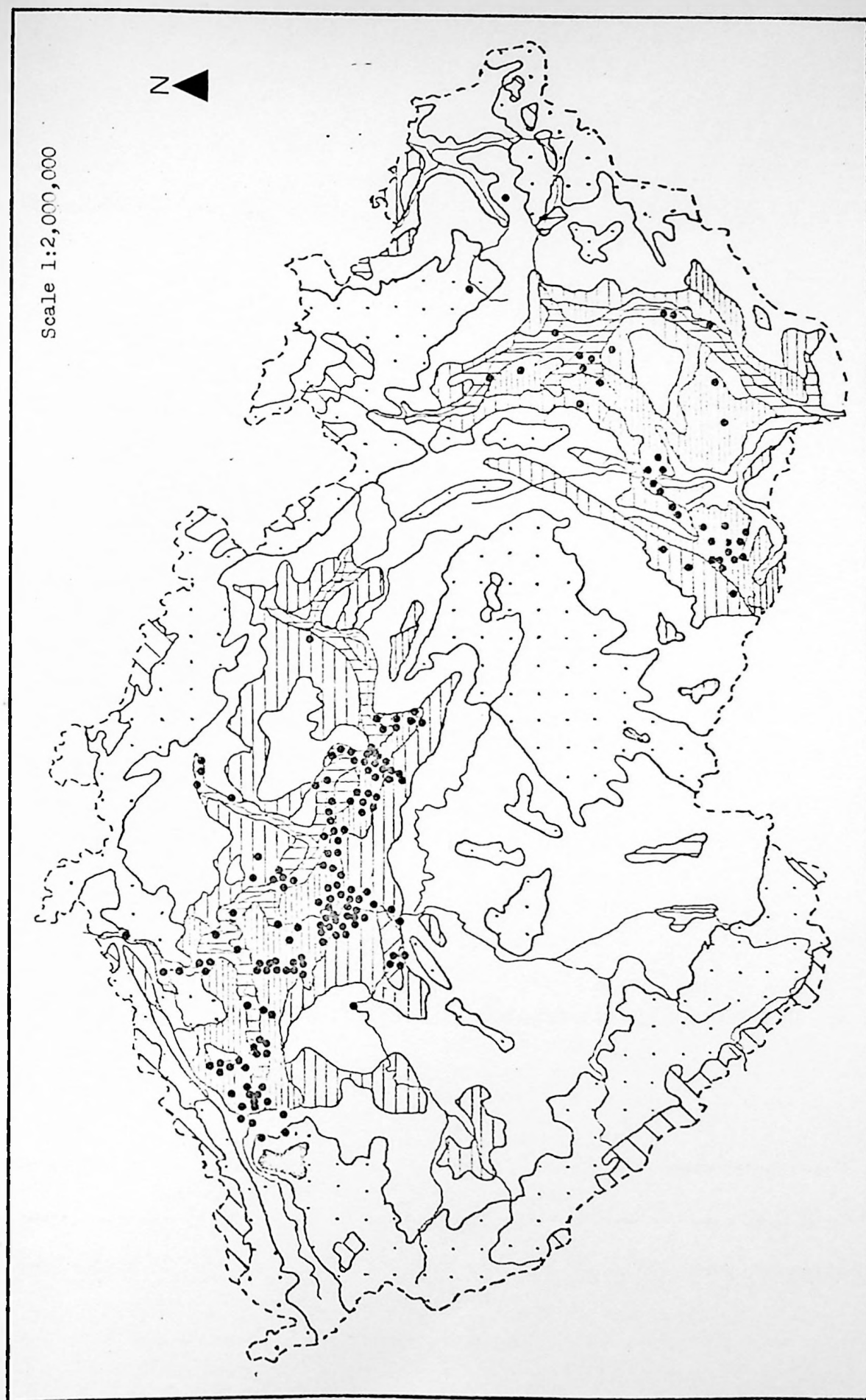
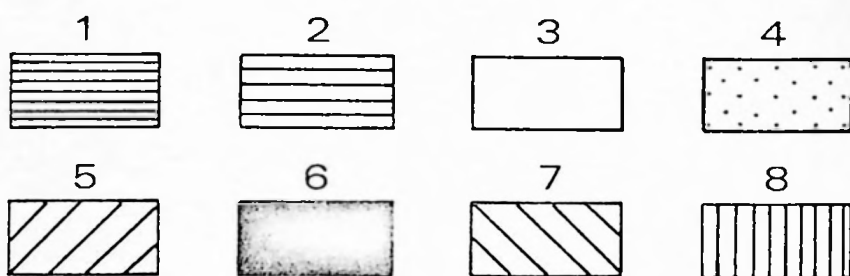


Figure 9.7b Rývnáček and Jevišovice B groups



- Key:
- 1. Chernozem
 - 2. Brown soils
 - 3. Podsollic soils and brown forest soils
 - 4. Brown forest soils of mountains.
 - 5. Podsols of mountains
 - 6. Grey forest soils
 - 7. Rendzina soils
 - 8. Soils of flood plain

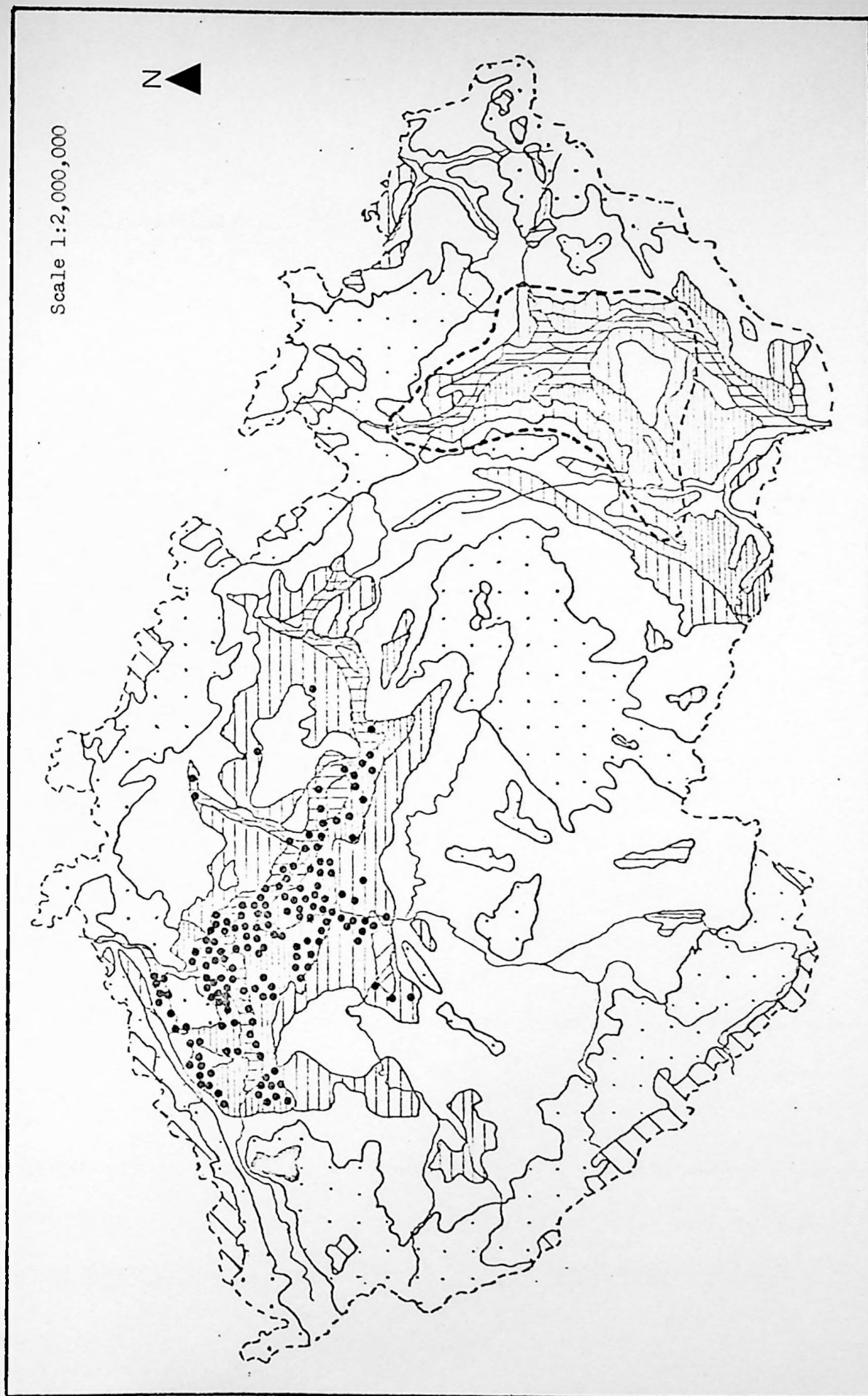
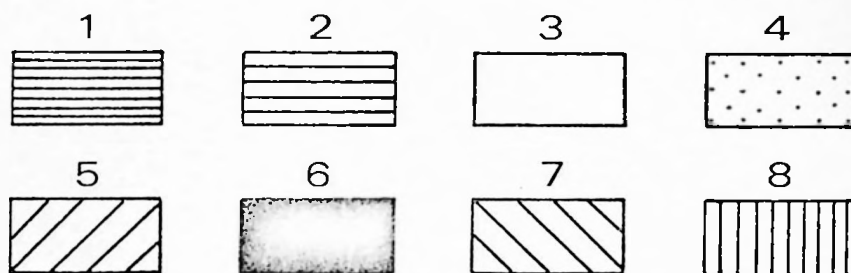


Figure 9.7c Corded Ware
Information on site locations unavailable for Moravia



- Key:
- 1. Chernozem
 - 2. Brown soils
 - 3. Podsollic soils and brown forest soils
 - 4. Brown forest soils of mountains.
 - 5. Podsols of mountains
 - 6. Grey forest soils
 - 7. Rendzina soils
 - 8. Soils of flood plain

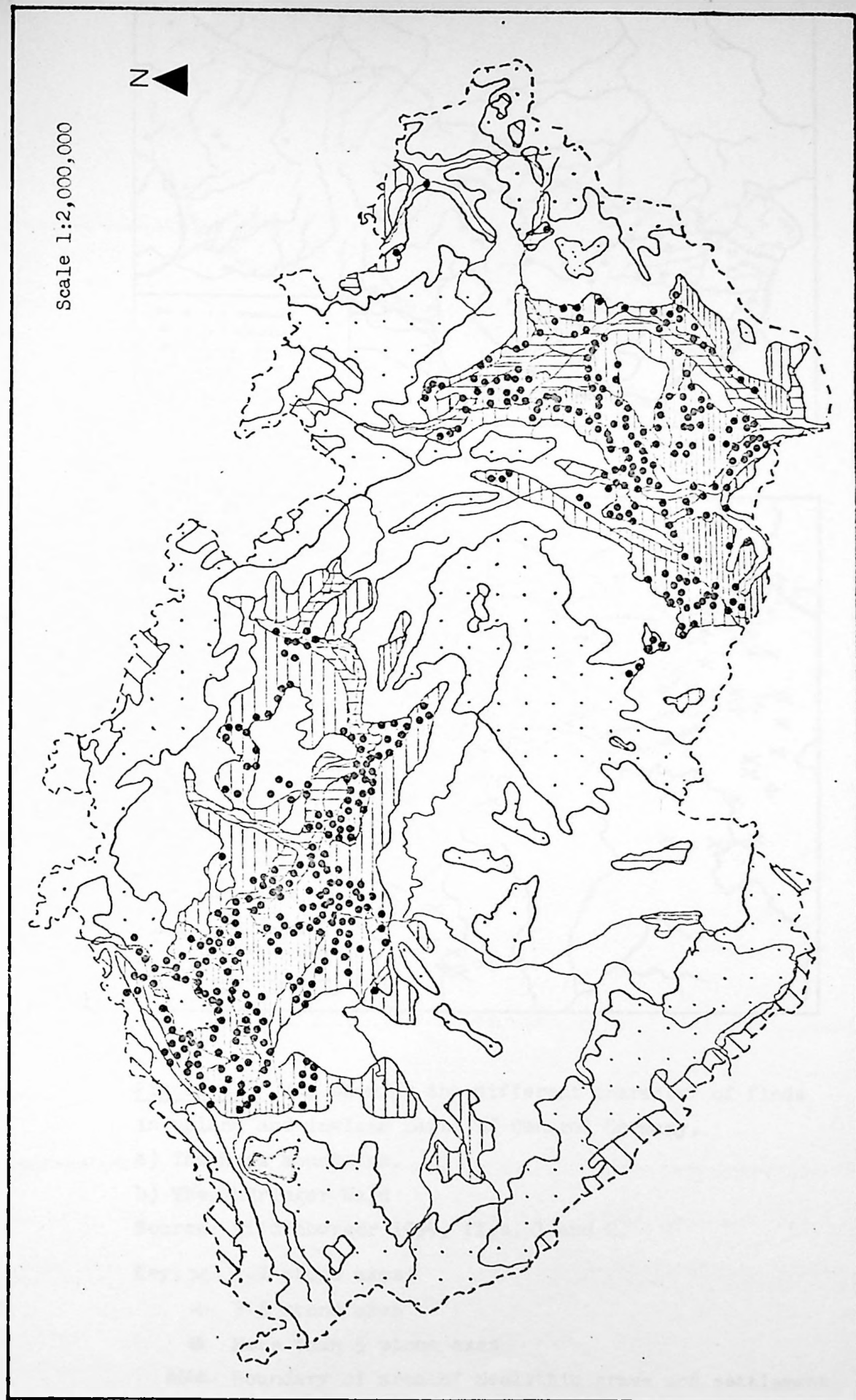
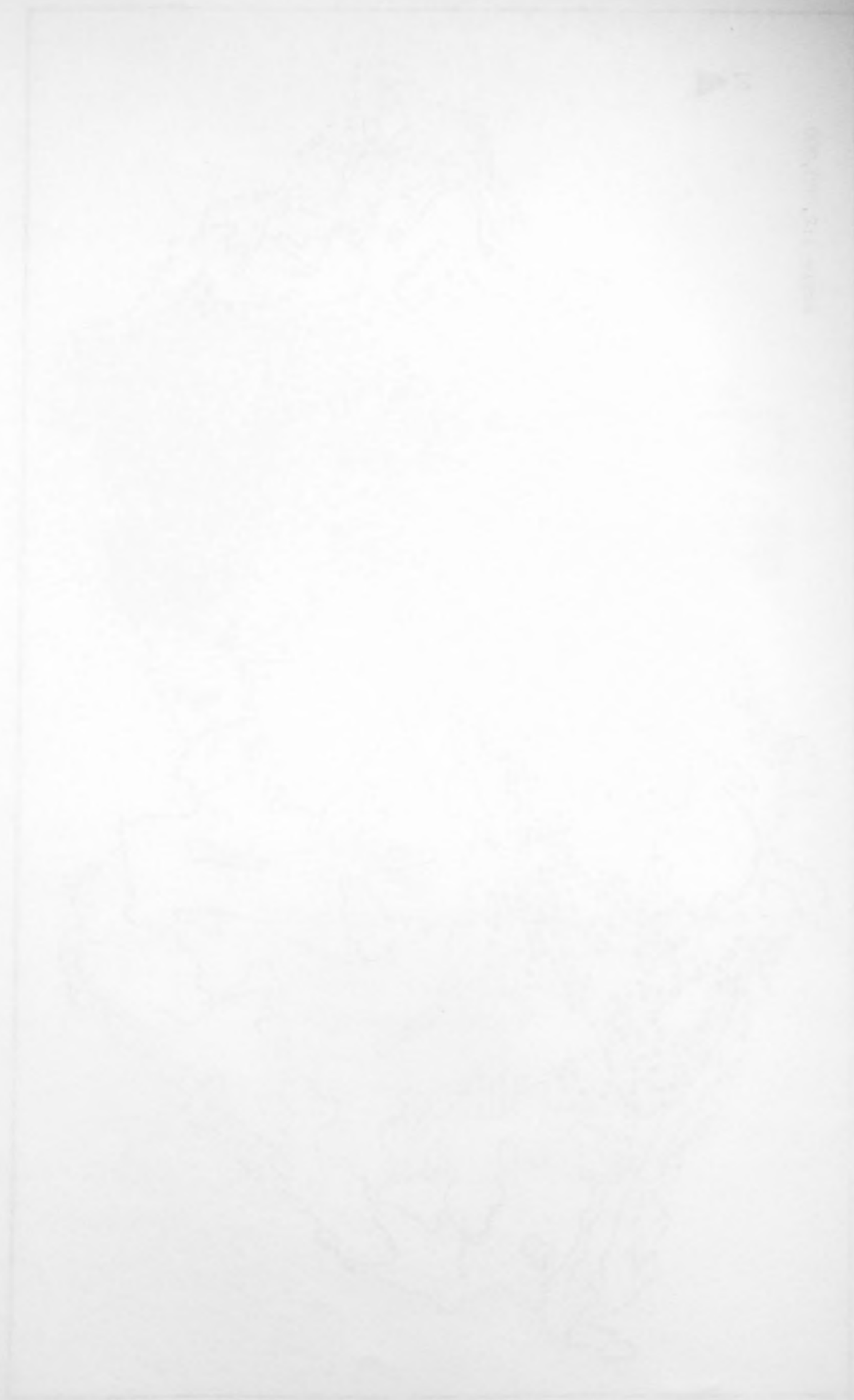


Figure 9.7d Bell Beaker



Scale 1:10,000

Sheet 100/100

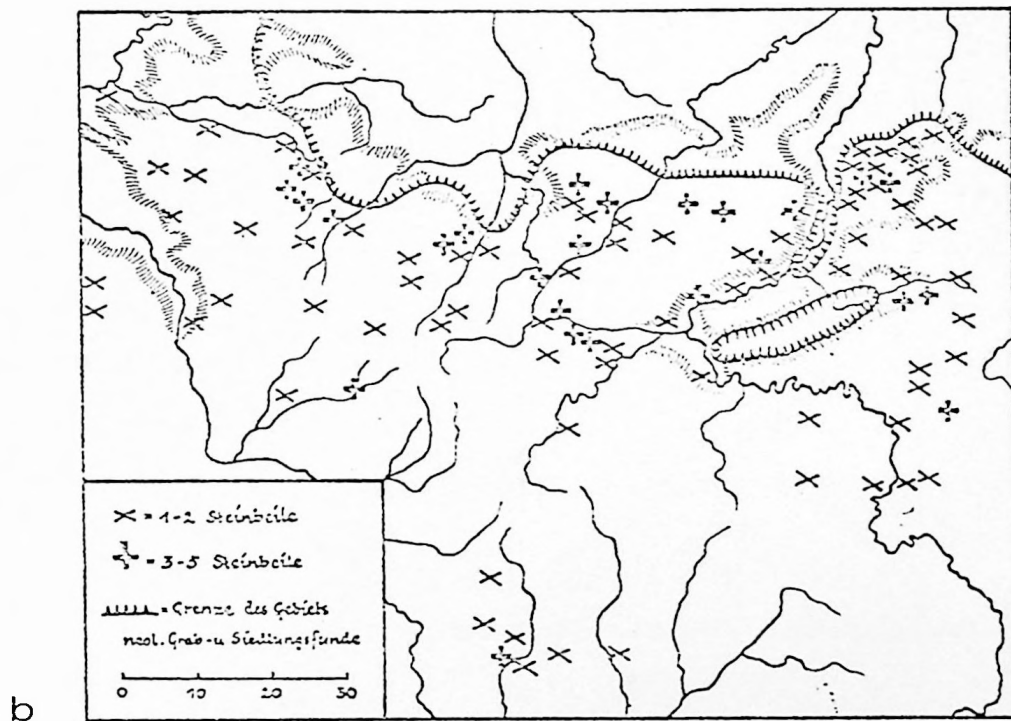
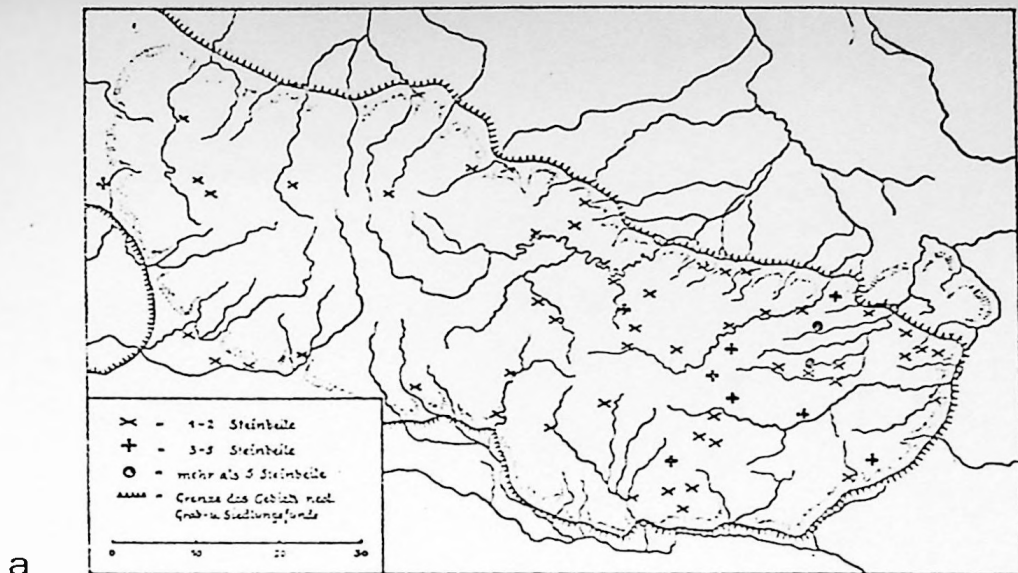


Figure 9.8 Map showing the different character of finds in upland and lowland parts of Central Germany.

a) The Harz mountains.

b) The Thüringer Wald

Source: Mildenerger 1959, figs. 1 and 2.

Key: X 1-2 stone axes

+ 3-5 stone axes

● More than 5 stone axes

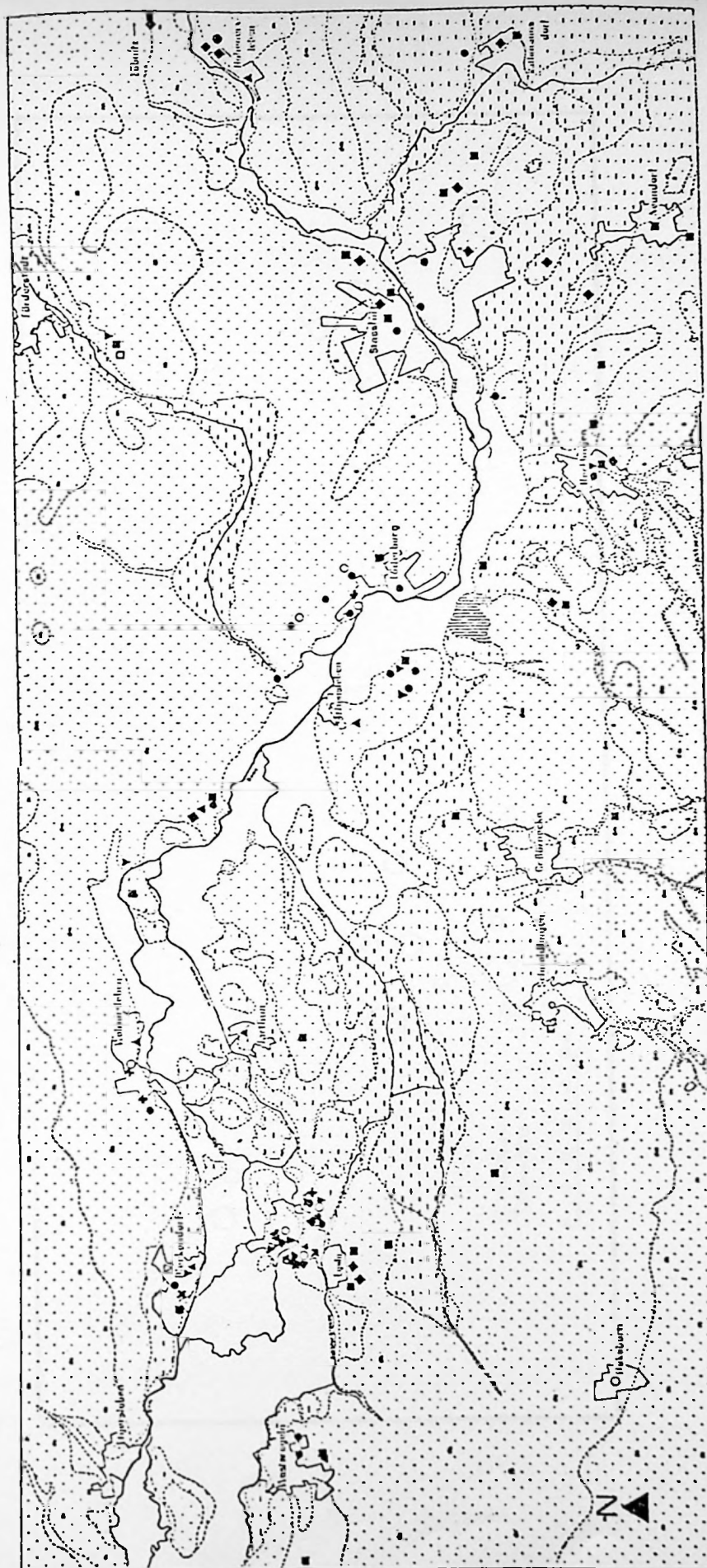
---- Boundary of area of Neolithic grave and settlement finds.

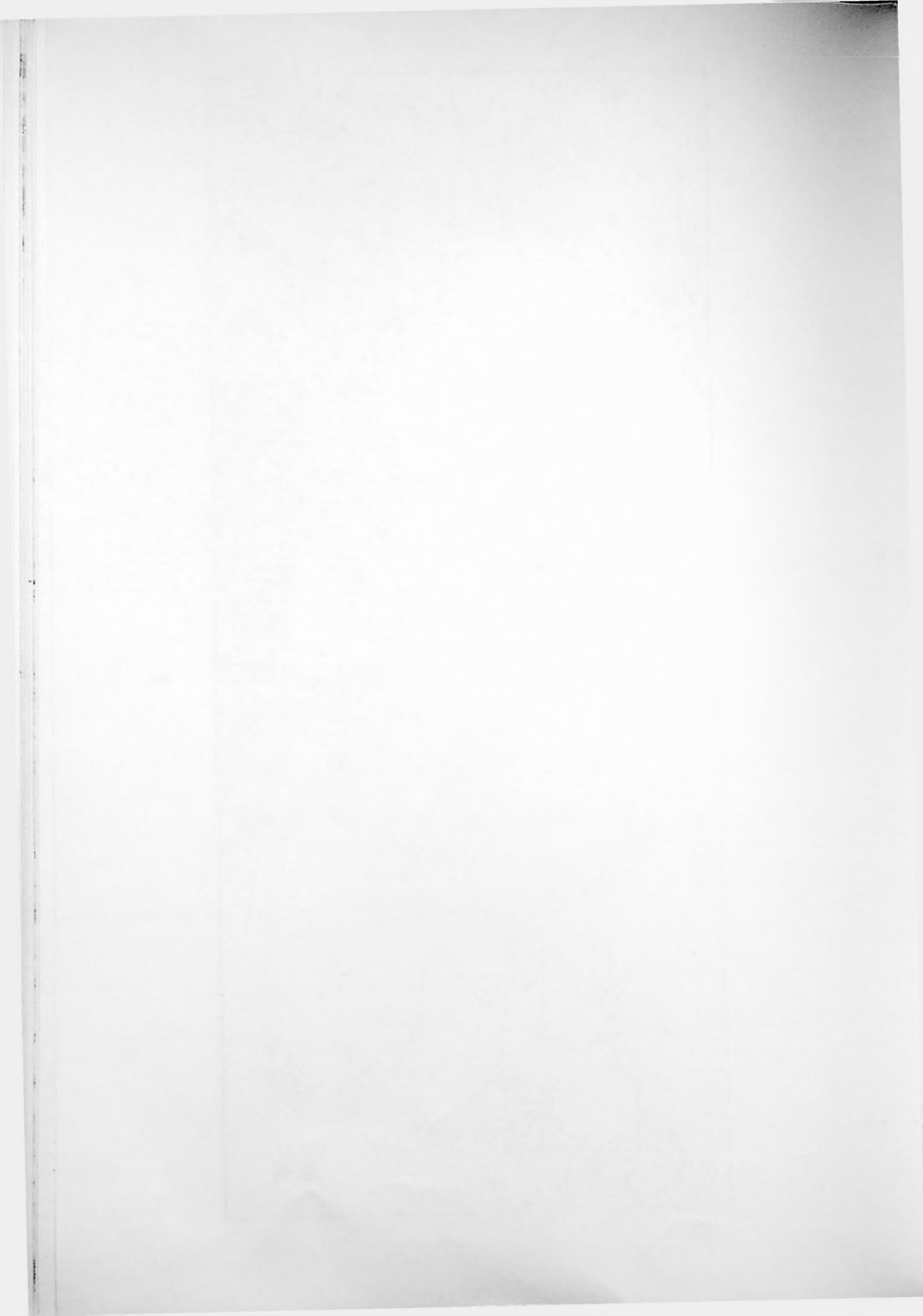
Figure 9.9 Distribution of Neolithic sites on
the lower Bode, Central Germany.

Source: Kaufmann 1967, Beilage 1.

Key

	Loess
	Degraded loess
	Loess on shelly limestone
	Loess on new red sandstone
	Loess on sandy (ds) and marly (dm) glacial sediments
	Chalky humus
	Chalky humus on loess
	Flood plain soils
	Holocene limestone
○	Linearbandkeramik
○	Stichbandkeramik
✚	Rössen
×	Gatersleben
▲	Baalberg
▼	Walternienburg-Bernburg
■	Corded Ware
□	Schönfeld-Ammensleben
◆	Bell Beaker
△	Alttiefstichkeramik
▽	Globular Amphora





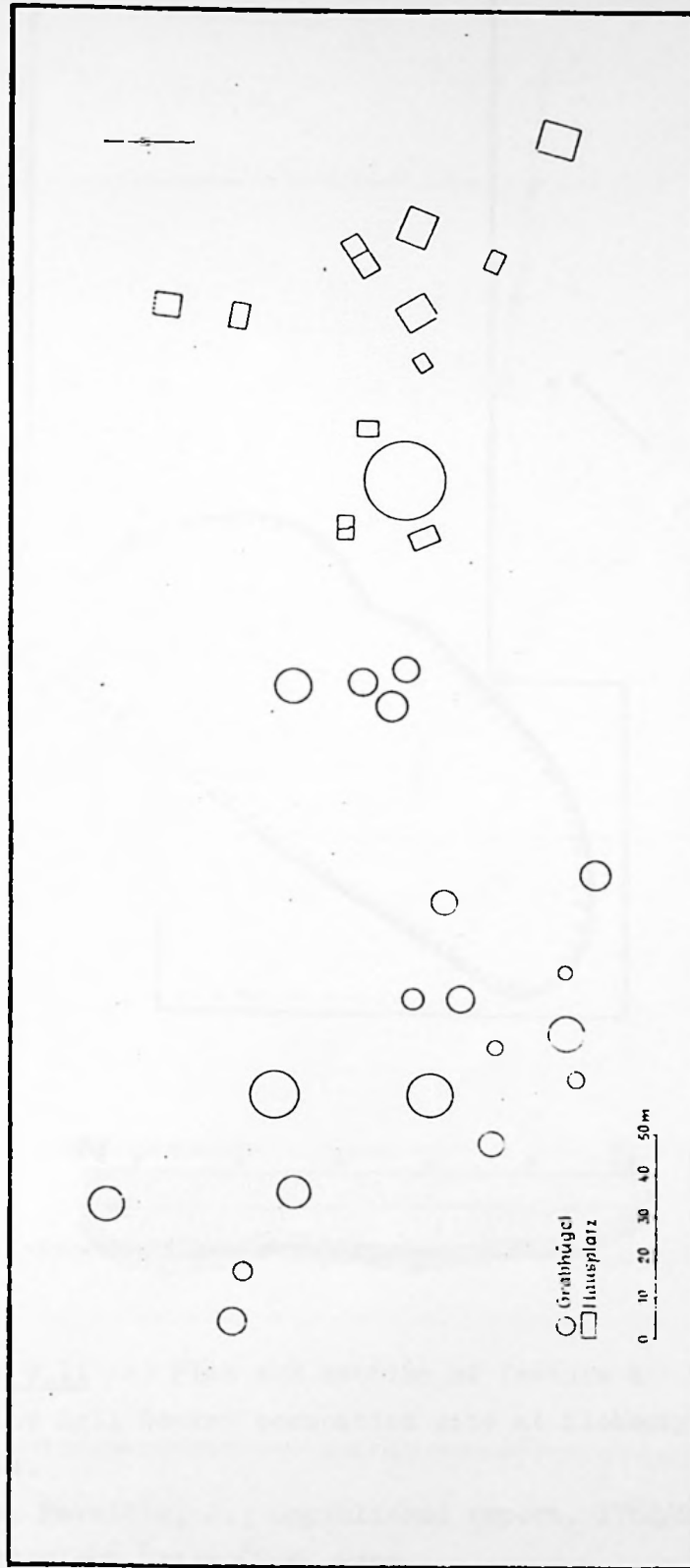
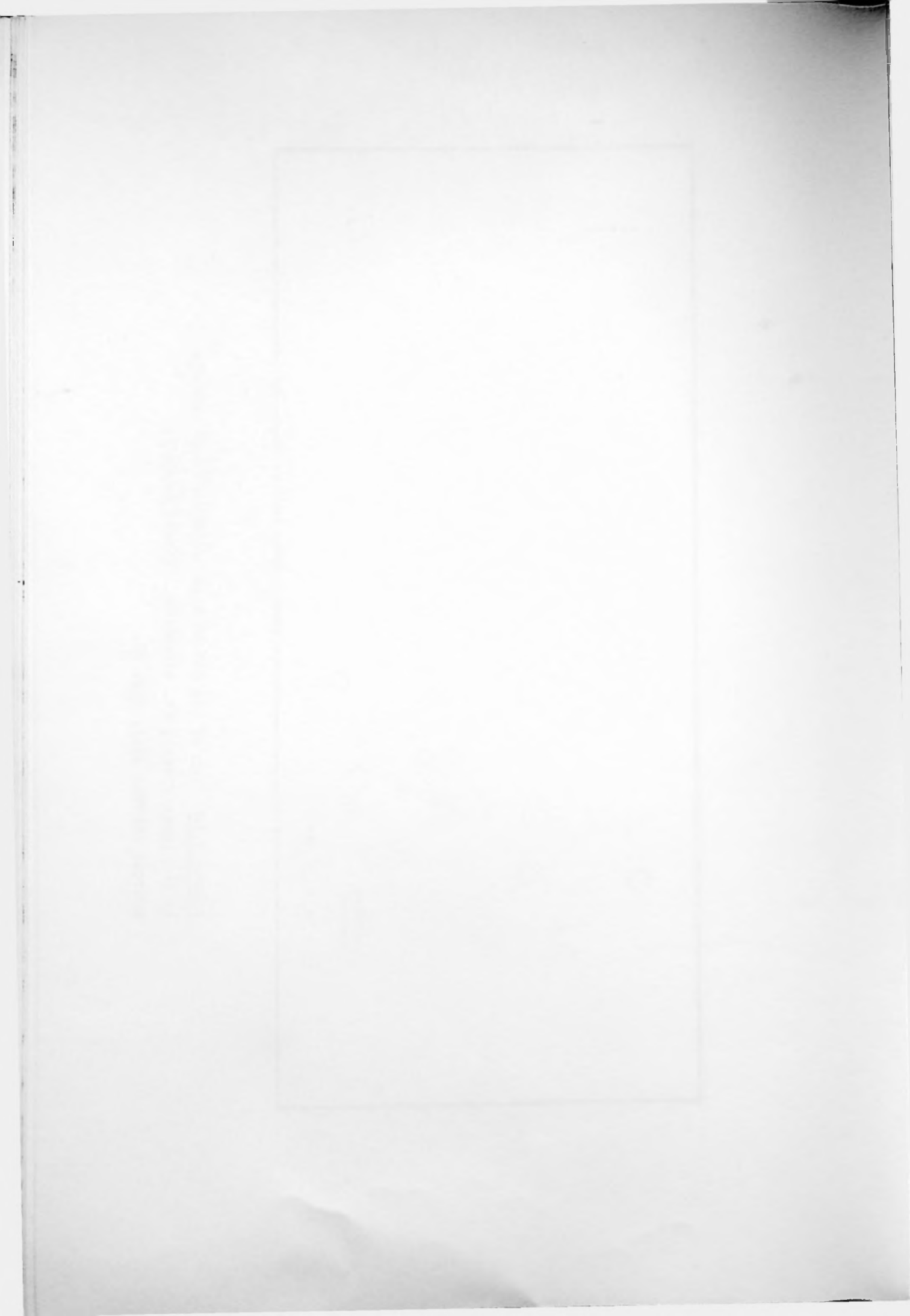


Figure 9.10 Plan of the Corded Ware settlement and cemetery in the Lucka Forest, Kr. Altenburg, Central Germany.
Source: Behrens 1973, fig. 82.



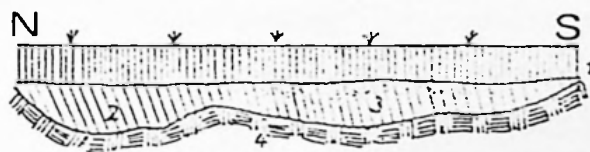
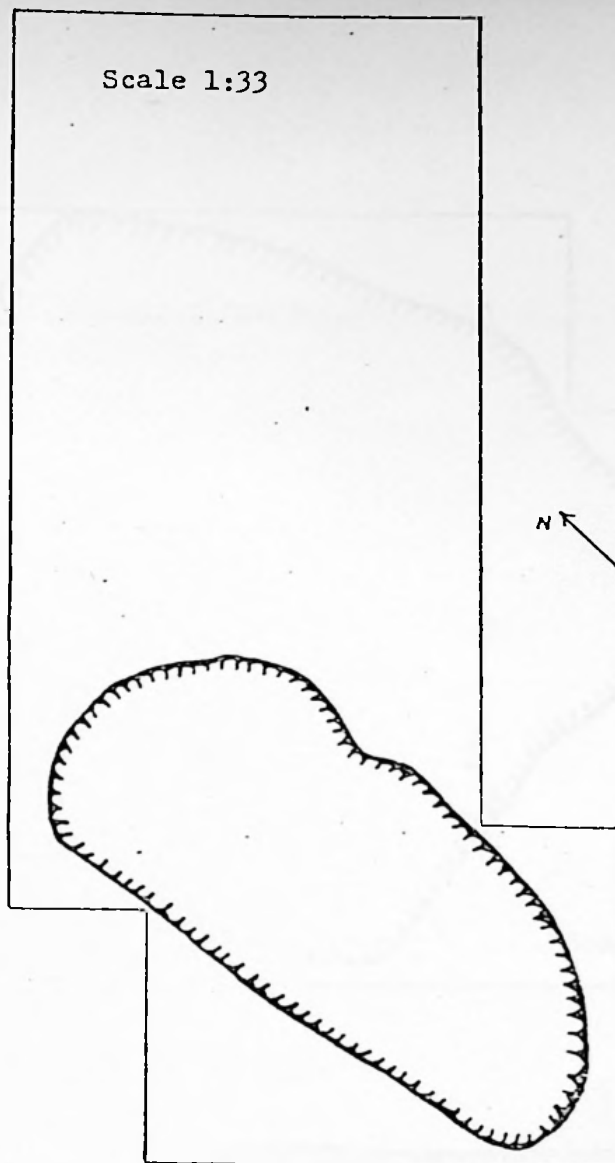
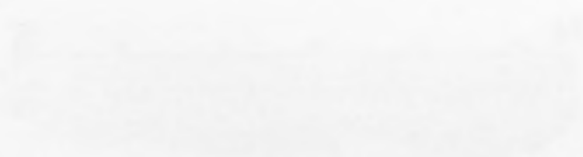


Figure 9.11 a) Plan and section of feature 4
from the Bell Beaker occupation site at Klobouky,
Moravia.

Source: Pavelčík, J., unpublished report, 1762/68,
Archeologický Ústav ČSAV, Brno.

- Key:
- 1. Humus
 - 2. Black fill
 - 3. Clayey fill
 - 4. Natural



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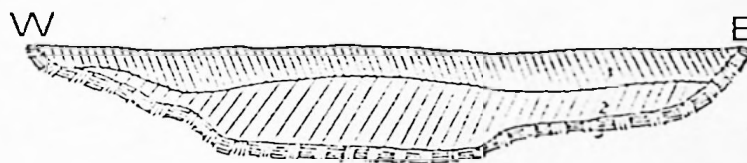
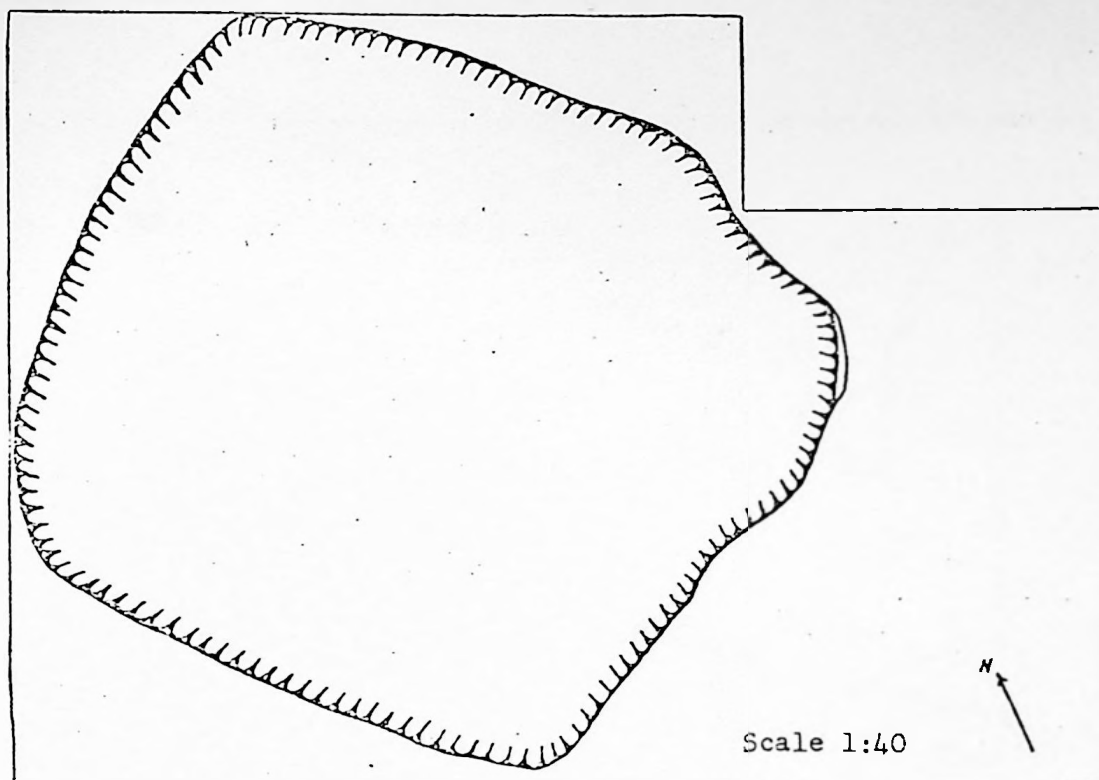


Figure 9.11 b) Plan and section of feature 6
from the Bell Beaker occupation site at Klobouky,
Moravia.

Source: Pavelčík J., report number 1762/68, Archeologický
Ústav ČSAV, Brno.

- Key:
- 1. Black layer
 - 2. Grey layer
 - 3. Natural

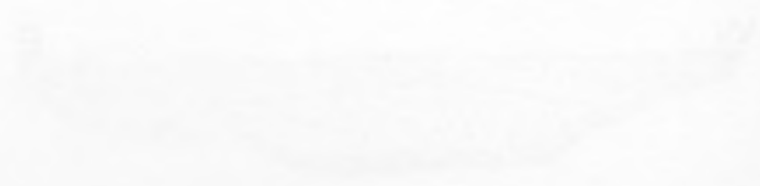


FIGURE 1. A plan view of the structure shown in Figure 1. The structure is a rectangular block with a central, irregularly shaped area that tapers towards the bottom. The diagram is enclosed within a rectangular border.

FIGURE 2. A cross-section of the structure shown in Figure 1. The structure is a rectangular block with a central, irregularly shaped area that tapers towards the bottom. The diagram is enclosed within a rectangular border.

FIGURE 3. A detail view of the structure shown in Figure 1. The structure is a rectangular block with a central, irregularly shaped area that tapers towards the bottom. The diagram is enclosed within a rectangular border.

FIGURE 4. A detail view of the structure shown in Figure 1. The structure is a rectangular block with a central, irregularly shaped area that tapers towards the bottom. The diagram is enclosed within a rectangular border.

FIGURE 5. A detail view of the structure shown in Figure 1. The structure is a rectangular block with a central, irregularly shaped area that tapers towards the bottom. The diagram is enclosed within a rectangular border.

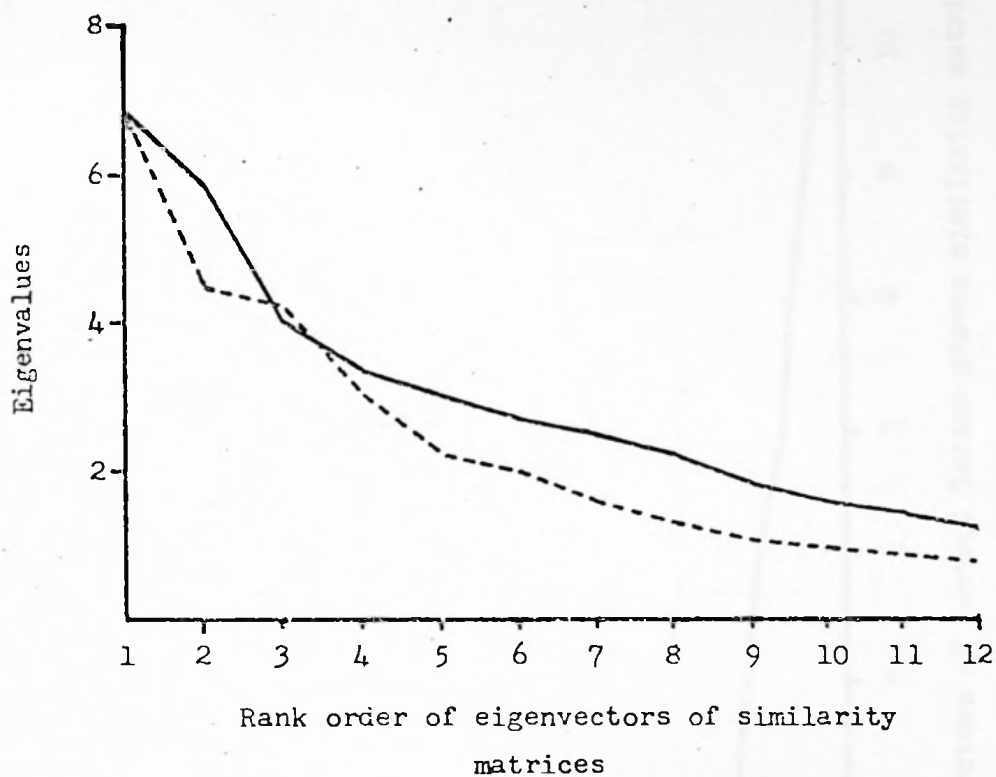


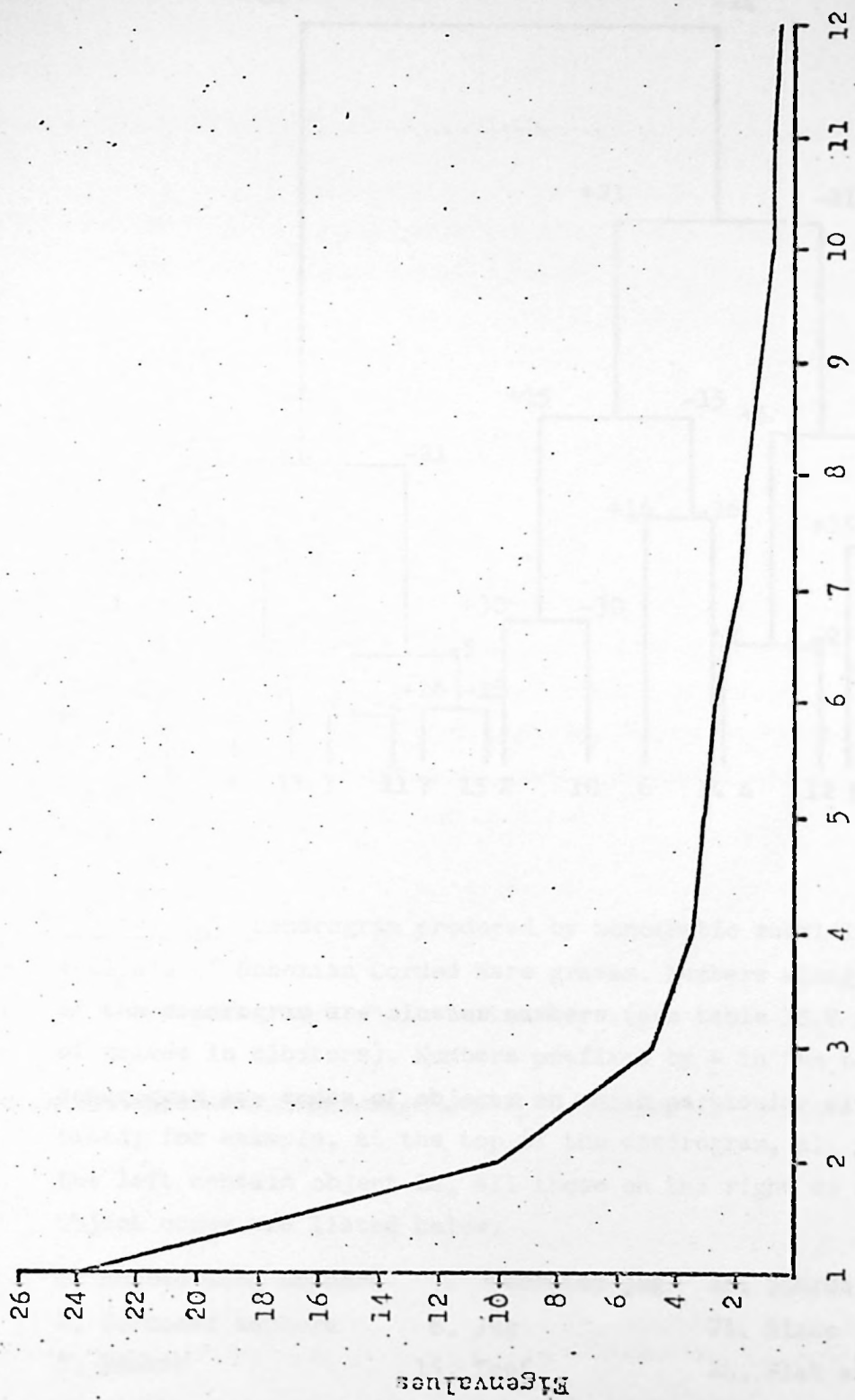
Figure 10.1 Graph of eigenvectors against their corresponding eigenvalues, from principal coordinates analyses of the Vikletice and Bohemian Corded Ware similarity matrices.

Key: — Bohemian Corded Ware
---- Vikletice



FIGURE 1. The relationship between the number of days and the number of days of rain.

The data in Figure 1 show that the number of days of rain increases as the number of days increases. The relationship is linear, and the slope of the line is 0.5. This means that for every day that passes, there is a 0.5 day increase in the number of days of rain.



Rank order of eigenvectors of Central German graves similarity matrix

Figure 10.2 Graph of eigenvectors against their corresponding eigenvalues

The following table shows the results of the analysis of variance for the data in Figure 1. The values in parentheses are the degrees of freedom for each source of variation.

The values of the mean squares and the F-ratios are given in the table. The critical value of F for 1 degree of freedom in the numerator and 10 degrees of freedom in the denominator is 4.96.



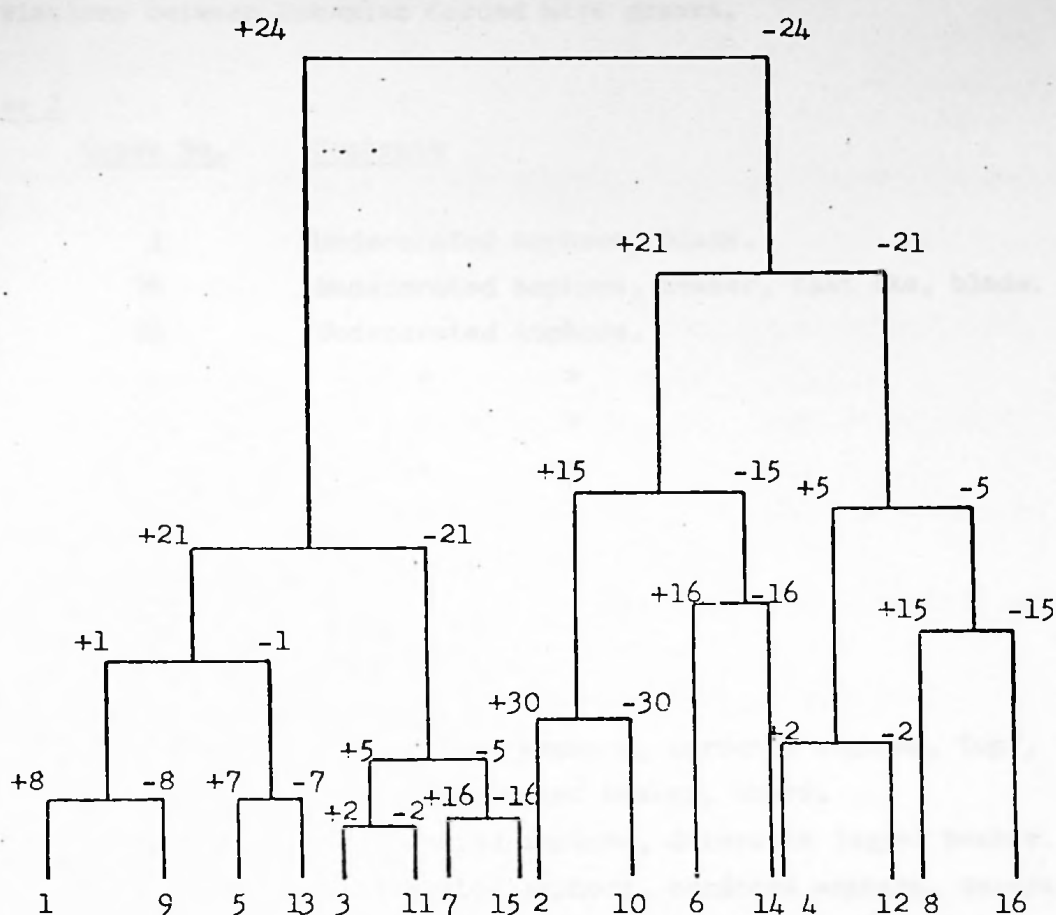


Figure 10.3 Dendrogram produced by monothetic subdivisive cluster analysis of Bohemian Corded Ware graves. Numbers along the bottom of the dendrogram are cluster numbers (see table 10.V for details of graves in clusters). Numbers prefixed by + in the body of the dendrogram are codes of objects on which particular divisions are based; for example, at the top of the dendrogram, all graves on the left contain object 24, all those on the right do not. Object codes are listed below:

- | | | | |
|------------------------|------------------|--------------|------------|
| 1. Undecorated amphora | 7. Decorated jug | 16. Sherds | 30. Copper |
| 2. Cordoned amphora | 8. Jug | 21. Blade | |
| 5. Beaker | 15. Topf | 24. Flat axe | |



Figure 1. Hierarchical tree structure of the data. The root node is 25, which branches into 24 and 23. Node 24 branches into 22 and 21, node 22 into 20 and 19, node 21 into 18 and 17, node 20 into 16 and 15, node 19 into 14 and 13, node 18 into 12 and 11, node 17 into 10 and 9, node 16 into 8 and 7, node 15 into 6 and 5, node 14 into 4 and 3, and node 13 into 2 and 1. The tree structure is as follows:

- 1. Root node: 25
- 2. Level 1 nodes: 24, 23
- 3. Level 2 nodes: 22, 21, 20, 19, 18, 17, 16, 15, 14, 13
- 4. Level 3 nodes: 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1

Figure 10.4 Dendrogram produced by average-link cluster analysis of the relations between Bohemian Corded Ware graves.

Cluster 1

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
RHS	1	Undecorated amphora, blade.
RHS	76	Undecorated amphora, beaker, flat axe, blade.
RHS	26	Undecorated amphora.
LHS	31	" "
LHS	62	" "
LHS	93	" "
LHS	100	" "

Cluster 2

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
-	18	Undecorated amphora, cordoned amphora, Topf, decorated lugged beaker, sherd.
-	34	Undecorated amphora, decorated lugged beaker.
RHS	51	Undecorated amphora, cordoned amphora, decorated lugged beaker.

Cluster 3

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
LHS	19	Undecorated amphora, jug, perforated teeth, copper, blade.
-	67	Incised amphora, undecorated amphora, amphora, 3 jugs, perforated shell, perforated teeth, copper, blade.
LHS	27	Undecorated amphora, 2 jugs, cylindrical vessel, blade, animal bones.
LHS	35	Undecorated amphora, decorated amphora, jug, Topf, blade.
LHS	70	Undecorated amphora, 2 jugs, Topf, blade.
LHS	95	Undecorated amphora, cordoned amphora, ribbed jug, blade.
RHS	21	Undecorated amphora, jug, decorated lugged beaker, mace head, flat axe, blade.

Fig. 10.4 (continued)

Cluster 3 (continued)

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	48	Undecorated amphora, jug, decorated lugged beaker, undecorated lugged beaker, flat axe, blade, spindle whorl.
LHS	104	Undecorated amphora, jug, undecorated lugged beaker, flat axe, blade.
RHS	64	Undecorated amphora, jug, undecorated lugged beaker.
LHS	40	Undecorated amphora, Topf, small handled Topf, grindstone, blade.
RHS	46	Undecorated amphora, Topf, lugged beaker, sherd, blade.
RHS	84	Undecorated amphora, Topf, sherd, blade.

Cluster 4

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
RHS	22	Undecorated amphora, jug, Topf, small 2-lugged Topf, copper.
LHS	101	Cordoned amphora, jug, Topf, cylindrical vessel, small 2-lugged Topf, copper.
RHS	105	Cordoned amphora, 3 small 2-lugged Töpfe, undecorated amphora, decorated jug, 2 jugs, 2 Töpfe, cylindrical vessel, decorated shell, copper, blade.
-	99	2 jugs, Topf, decorated shell, copper, blade.
LHS	39	Cordoned amphora, jug, Topf, undecorated handled beaker, small handled Topf, clay disc, blade.

Other

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	20	Topf.
LHS	69	Undecorated amphora, decorated jug, Topf, animal bones.

Fig. 10.4 (continued)

Cluster 5

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
LHS	73	Cordoned amphora, Topf, undecorated lugged beaker, decorated shell, perforated shell, perforated teeth.
-	74	Cordoned amphora, Topf, undecorated lugged beaker, cylindrical vessel, decorated shell.
LHS	79	Cordoned amphora, amphora, beaker, Topf, sherd.
-	97	Cordoned amphora, beaker, Topf, copper.

Cluster 6

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	41	Undecorated amphora, cylindrical vessel.
-	53	Cylindrical vessel.
RHS	42	Small lugged Topf, cylindrical vessel, polypod bowl.
-	44	Decorated amphora, Topf, cylindrical vessel, blade.
LHS	57	Amphora, beaker, cylindrical vessel, decorated shell, blade.

Cluster 7

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	2	Beaker, decorated jug.
RHS	16	Cordoned amphora, beaker, decorated jug.
LHS	72	Cordoned amphora, decorated jug.
-	94	2 cordoned amphorae, decorated jug, blade.

Other

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
LHS	3	Decorated jug, lugged bowl, 2 basins, grindstone, bone point, blade.

STATE OF NEW YORK

IN SENATE

January 10, 1907

REPORT OF THE COMMISSIONERS OF THE LAND OFFICE
IN RESPONSE TO A RESOLUTION PASSED BY THE SENATE
JANUARY 10, 1907

ALBANY: PUBLISHED BY THE STATE PRINTING OFFICE
1907

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Fig. 10.4 (continued)

Cluster 8

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
RHS	6	2 flat axes, bone chisel.
RHS	7	4 flat axes, bone disc, blade.
LHS	8	Flat axe, blade.
RHS	45	Amphora, beaker, undecorated lugged beaker, flat axe, blade.
-	78	Lugged beaker, flat axe, blade.
RHS	75	Undecorated amphora, undecorated lugged beaker, hammer axe, flat axe, blade.
RHS	23	Cordoned amphora, 2 flat axes.
RHS	103	Cordoned amphora, beaker, mace head, flat axe, blade.
RHS	10	Decorated jug, decorated lugged beaker, cylindrical vessel, 2 flat axes, blade.
-	47	Undecorated amphora, decorated jug, decorated lugged beaker, flat axe, blade.
RHS	88	Undecorated amphora, decorated jug, decorated lugged beaker, hammer-axe, flat axe, blade.

Cluster 9

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	9	Jug, hammer-axe, blade.
RHS	55	Jug, hammer-axe, blade, animal bones.
RHS	96	Hammer-axe, blade.
-	33	Hammer-axe.

Cluster 10

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	11	Beaker, hammer-axe, flat axe.
-	43	Cordoned amphora, beaker, hammer-axe, flat axe.
RHS	92	Cordoned amphora, beaker, flat axe.

Fig. 10.4 (continued)

Cluster 10 (continued)

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
RHS	66	Cordoned amphora, beaker, undecorated lugged beaker, hammer-axe, flat axe, grindstone.
LHS	15	Cordoned amphora, beaker, hammer-axe.
-	68	2 cordoned amphorae, 2 beakers, hammer-axe, blade.
-	98	Cordoned amphora, beaker, sherd, hammer-axe, blade.
RHS	65	Cordoned amphora, undecorated lugged beaker, hammer-axe.
RHS	52	Undecorated amphora, beaker, hammer-axe, mace head.
RHS	13	Sherds, hammer-axe, flat axe.
RHS	24	Undecorated amphora, 2 flat axes.
RHS	29	Cordoned amphora, undecorated jug, hammer-axe, flat axe.
RHS	28	Amphora, beaker, 2 decorated jugs, hammer-axe, flat axe.

Cluster 11

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
RHS	17	Sherds, blade.
-	59	" "
LHS	36	Sherds, blade, animal bones.
RHS	56	Sherds, blade, mace head.
LHS	77	Cordoned amphora, sherds, blade.
LHS	102	Jug, small 2-lugged Topf, sherds, blade.
RHS	49	Bone pin, blade.
-	108	Blade.
-	82	Sherds, lugged beaker.

Cluster 12

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
LHS	25	Beaker, perforated shell disc, perforated teeth, blade.

Fig. 10.4 (continued)

Cluster 12 (continued)

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
LHS	38	Perforated shell disc, perforated teeth, blade.
LHS	63	Cylindrical vessel, perforated shell, perforated teeth, blade.
LHS	50	Perforated teeth, blade.
LHS	60	Undecorated amphora, perforated shell, perforated teeth.

Cluster 13

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
RHS	80	Amphora, undecorated handled beaker, blade.
LHS	89	Amphora, beaker, decorated shell, perforated shell, blade.
-	90	Amphora, beaker, copper, blade.
RHS	91	Amphora.
-	107	Amphora, perforated shell.

Cluster 14

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
-	83	Amphora, decorated jug, sherds, flat axe, blade.
RHS	86	Amphora, cylindrical vessel, sherds, flat axe.
LHS	87	Amphora, cylindrical vessel, sherds, perforated shell, perforated teeth.

Cluster 15

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
RHS	4	Decorated amphora, beaker.
RHS	54	Decorated amphora, beaker, decorated jug.
-	14	Beaker.
-	81	"
-	85	Beaker, jug.
-	106	Beaker, decorated shell.
LHS	61	Beaker, lugged beaker, lugged bowl.

Fig. 10.4 (continued)

Cluster 16

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
-	12	Beaker, decorated jug, sherds, mace head.
-	71	Decorated jug, jug, sherds, mace head.
RHS	58	Jug, animal bones.

Cluster 17

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
LHS	5	Decorated amphora, decorated lugged beaker.
-	32	Decorated lugged beaker.
RHS	37	Decorated amphora.

Other

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
LHS	30	Small 2-lugged Topf.

1912

1913

1914

1915

1916

1917

1918

1919

1920

1921

1922

1923

1924

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1929

1930

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1947

1948

1949

1950

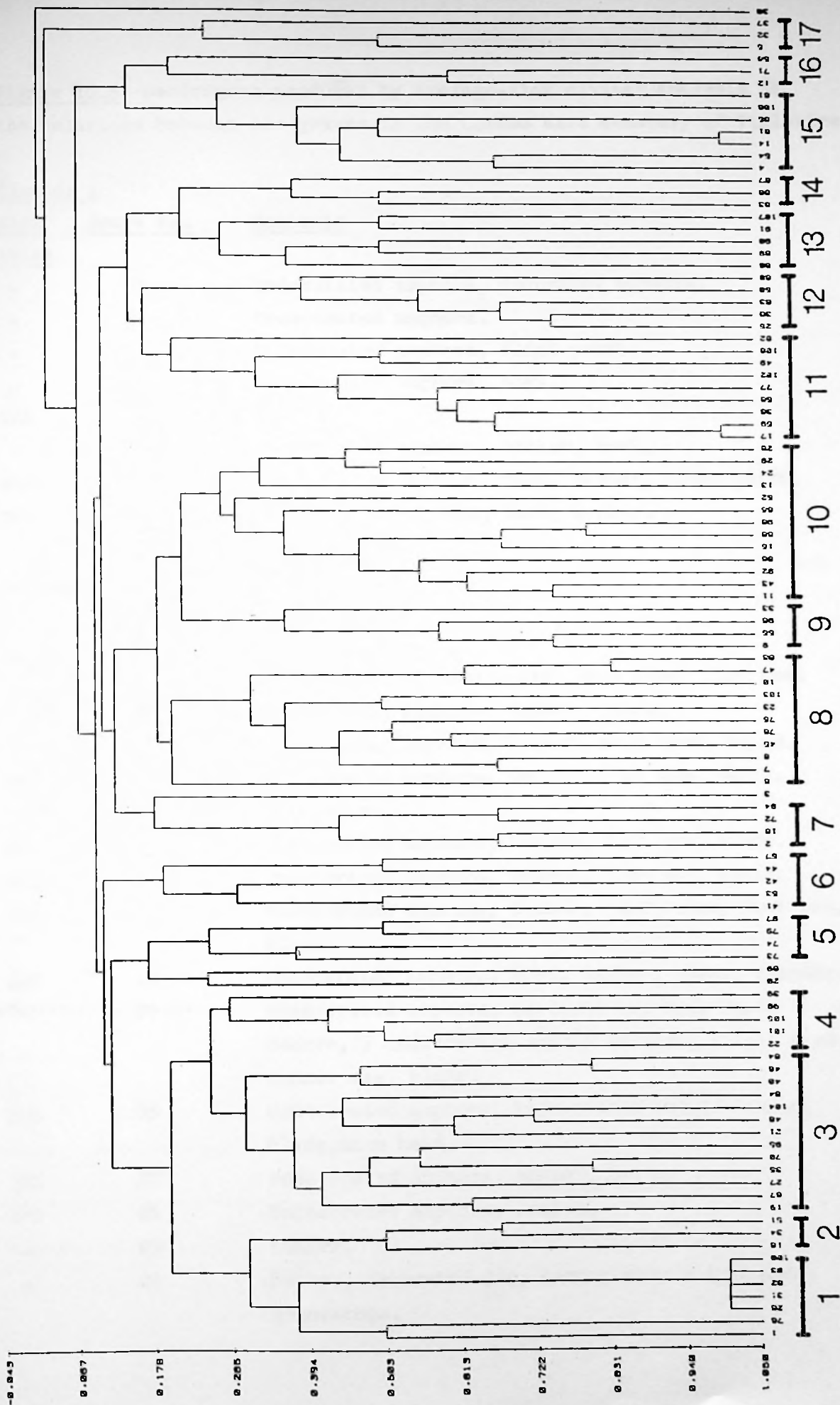




Figure 10.5 Dendrogram produced by average-link cluster analysis of the relations between the graves in the Corded Ware cemetery of Vikletice.

Cluster 1

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	1	Undecorated amphora, decorated amphora.
-	11	Undecorated amphora.
-	22	Undecorated amphora, flint point.
-	47	Undecorated amphora, bowl.
LHS	85	" " "
-	75	Undecorated amphora, beaker, bowl.
RHS	55	Undecorated amphora, bowl, beaker, flint point.
RHS	90	Undecorated amphora, bowl, beaker.

Cluster 2

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	14	Beaker, blade, hammer-axe, mace head, flat axe.
-	20	Undecorated amphora, beaker, blade.
-	31	Undecorated amphora, beaker, mace head, blade.
RHS	30	Undecorated amphora, beaker, flat axe, blade, grindstone.
RHS	79	Undecorated amphora, beaker, flat axe, blade.
RHS	84	Undecorated amphora, beaker, flat axe, blade.
RHS	78	Undecorated amphora, beaker, hammer-axe, flat axe, blade.
RHS	48	Undecorated amphora, bowl, beaker, blade, grindstone.
-	77	Undecorated amphora, cordoned amphora, Topf, beaker, 2 undecorated lugged beakers, 2 flat axes, hammer axe, blade.
RHS	65	Undecorated amphora, undecorated lugged beaker, blade, mace head.
LHS	37	Undecorated amphora, beaker, Topf.
RHS	86	Undecorated amphora, beaker.
-	87	Beaker.
-	26	Beaker, decorated jug, hammer axe, 2 flat axes, grindstone.

Fig. 10.5 (continued)

Cluster 3

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
LHS	6	Topf, jug, small 2-lugged Topf.
LHS	59	Undecorated amphora, jug, Topf, vessel.
LHS	80	2 undecorated amphorae, jug, Topf, blade.
-	17	Undecorated amphora, Topf, undecorated lugged beaker.
LHS	83	" " " " " "
LHS	24	2 undecorated amphorae, 2 Töpfe, small 2 lugged Topf, undecorated lugged beaker.
LHS	52	Undecorated amphora, decorated amphora, Topf, small 2-lugged Topf.
LHS	36	Undecorated amphora, decorated amphora, Topf, 2 blades, 3 flakes, flint point, perforated teeth.
LHS	51	Undecorated amphora, small handled Topf, Topf, blade, flake.
LHS	53	Undecorated amphora, small handled Topf, Topf, blade.

Cluster 4

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	18	2 polypod bowls, jugs, decorated jug, decorated lugged beaker, beaker, 5 undecorated amphorae, decorated amphora, 2 small 2-lugged Töpfe, 3 Töpfe, hammer-axe, mace head, 2 blades, flake.
RHS	19	Undecorated lugged beaker, 2 decorated lugged beakers, Topf, small 2-lugged Topf, undecorated amphora, mace head, 2 blades, flint point, 3 arrowheads, flake.
-	60	2 Töpfe, small 2-lugged Topf, 3 undecorated amphorae, 2 undecorated lugged beakers, beaker, jug, blade, copper, bone tool, bone awl.

TABLE I		TABLE II	
Year	Amount	Year	Amount
1890	100	1890	100
1891	100	1891	100
1892	100	1892	100
1893	100	1893	100
1894	100	1894	100
1895	100	1895	100
1896	100	1896	100
1897	100	1897	100
1898	100	1898	100
1899	100	1899	100
1900	100	1900	100

TABLE III		TABLE IV	
Year	Amount	Year	Amount
1890	100	1890	100
1891	100	1891	100
1892	100	1892	100
1893	100	1893	100
1894	100	1894	100
1895	100	1895	100
1896	100	1896	100
1897	100	1897	100
1898	100	1898	100
1899	100	1899	100
1900	100	1900	100

Fig. 10.5 (continued)

Cluster 5

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
RHS	25	Decorated lugged beaker, undecorated amphora, hammer-axe.
RHS	34	Undecorated amphora, decorated lugged beaker, cordoned amphora, hammer-axe, blade.
RHS	74	Undecorated amphora, decorated lugged beaker, blade.
-	33	Undecorated amphora, decorated lugged beaker, Topf, cylindrical vessel.
-	45	Undecorated amphora, decorated lugged beaker, Topf, lugged Topf, flint point..
LHS	57	Undecorated amphora, Topf, cylindrical vessel, basin, polypod bowl.

Cluster 6

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	9	Decorated lugged beaker, flat axe, 2 flakes.
-	13	Decorated lugged beaker, flat axe, sherd, mace head, blade.
-	16	Undecorated amphora, decorated jug, sherds, 2 flat axes, blade, mace head, grindstone.
RHS	58	Sherds, flat axe, blade, flake.

Cluster 7

<u>Side</u> <u>lying</u>	<u>Grave No.</u>	<u>Contents</u>
-	8	Amphora, flat axe, blade, animal bones, bone point, grindstone.
LHS	67	2 amphorae, Topf, small 2 lugged Topf, animal bones, grindstone, copper.
LHS	66	Amphora, Topf, 2 cylindrical vessels, blade, bone point, copper, clay ball, shell necklace.

Section 1		Section 2	
Item	Value	Item	Value
1.000000	1.000000	1.000000	1.000000
2.000000	2.000000	2.000000	2.000000
3.000000	3.000000	3.000000	3.000000
4.000000	4.000000	4.000000	4.000000
5.000000	5.000000	5.000000	5.000000
6.000000	6.000000	6.000000	6.000000
7.000000	7.000000	7.000000	7.000000
8.000000	8.000000	8.000000	8.000000
9.000000	9.000000	9.000000	9.000000
10.000000	10.000000	10.000000	10.000000

Section 3		Section 4	
Item	Value	Item	Value
1.000000	1.000000	1.000000	1.000000
2.000000	2.000000	2.000000	2.000000
3.000000	3.000000	3.000000	3.000000
4.000000	4.000000	4.000000	4.000000
5.000000	5.000000	5.000000	5.000000
6.000000	6.000000	6.000000	6.000000
7.000000	7.000000	7.000000	7.000000
8.000000	8.000000	8.000000	8.000000
9.000000	9.000000	9.000000	9.000000
10.000000	10.000000	10.000000	10.000000

Section 5		Section 6	
Item	Value	Item	Value
1.000000	1.000000	1.000000	1.000000
2.000000	2.000000	2.000000	2.000000
3.000000	3.000000	3.000000	3.000000
4.000000	4.000000	4.000000	4.000000
5.000000	5.000000	5.000000	5.000000
6.000000	6.000000	6.000000	6.000000
7.000000	7.000000	7.000000	7.000000
8.000000	8.000000	8.000000	8.000000
9.000000	9.000000	9.000000	9.000000
10.000000	10.000000	10.000000	10.000000

Fig. 10.5 (continued)

Cluster 8

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
LHS	10	2 small 2-lugged Töpfe, undecorated amphora, Topf, decorated jug, flake, grindstone.
LHS	27	Cordoned amphora, 2 lugged amphorae, Topf, decorated jug, flint point, flake.
-	21	Cordoned amphora, lugged amphora, jug, flake, blade, grindstone, perforated dog teeth, perforated shell disc.

Cluster 9

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
-	12	Cordoned amphora, small 2-lugged Topf, decorated jug, Topf, cylindrical vessel, blade, copper.
-	76	Cordoned amphora, small 2-lugged Topf, Topf, undecorated lugged beaker, 3 blades.
LHS	54	Cordoned amphora, Topf, stone disc, blade.
LHS	81	Cordoned amphora, Topf, small handled Topf, basin, blade.
LHS	38	Cordoned amphora, undecorated amphora, blade.
RHS	46	Cordoned amphora, decorated jug, blade, flat axe.

Other

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
LHS	41	Cordoned amphora, undecorated lugged beaker, bowl.
LHS	62	Cordoned amphora, decorated shell.
RHS	68	Cylindrical vessel.
LHS	71	Undecorated amphora, cylindrical vessel.

Table 1

Item	Value	Unit
1.0000	1.0000	1.0000
2.0000	2.0000	2.0000
3.0000	3.0000	3.0000
4.0000	4.0000	4.0000
5.0000	5.0000	5.0000
6.0000	6.0000	6.0000
7.0000	7.0000	7.0000
8.0000	8.0000	8.0000
9.0000	9.0000	9.0000
10.0000	10.0000	10.0000

Table 2

Item	Value	Unit
1.0000	1.0000	1.0000
2.0000	2.0000	2.0000
3.0000	3.0000	3.0000
4.0000	4.0000	4.0000
5.0000	5.0000	5.0000
6.0000	6.0000	6.0000
7.0000	7.0000	7.0000
8.0000	8.0000	8.0000
9.0000	9.0000	9.0000
10.0000	10.0000	10.0000

Table 3

Item	Value	Unit
1.0000	1.0000	1.0000
2.0000	2.0000	2.0000
3.0000	3.0000	3.0000
4.0000	4.0000	4.0000
5.0000	5.0000	5.0000
6.0000	6.0000	6.0000
7.0000	7.0000	7.0000
8.0000	8.0000	8.0000
9.0000	9.0000	9.0000
10.0000	10.0000	10.0000

Fig. 10.5(continued)

Cluster 10

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
LHS	2	Beaker, sherds, 2 blades.
-	40	Beaker, blade, decorated amphora.
-	61	Decorated amphora, 2 blades, bone awl, antler fragments.
-	69	Decorated amphora, beaker, blade.
RHS	82	" " " "
-	39	Undecorated amphora, decorated amphora, cylindrical vessel, undecorated lugged beaker, bowl, flint blade.
LHS	49	Decorated amphora, cylindrical vessel, decorated lugged beaker, bowl, blade.

Cluster 11

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
-	23	Decorated jug, decorated amphora, Topf.
-	73	Cordoned amphora, 2 decorated amphorae, beaker, Topf, copper, hammer-axe.
LHS	70	Decorated amphora, Topf, basin.

Cluster 12

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
-	43	Decorated amphora.
-	50	" "
LHS	88	Decorated amphora, decorated lugged beaker.

Fig. 10.5 (continued)

Other

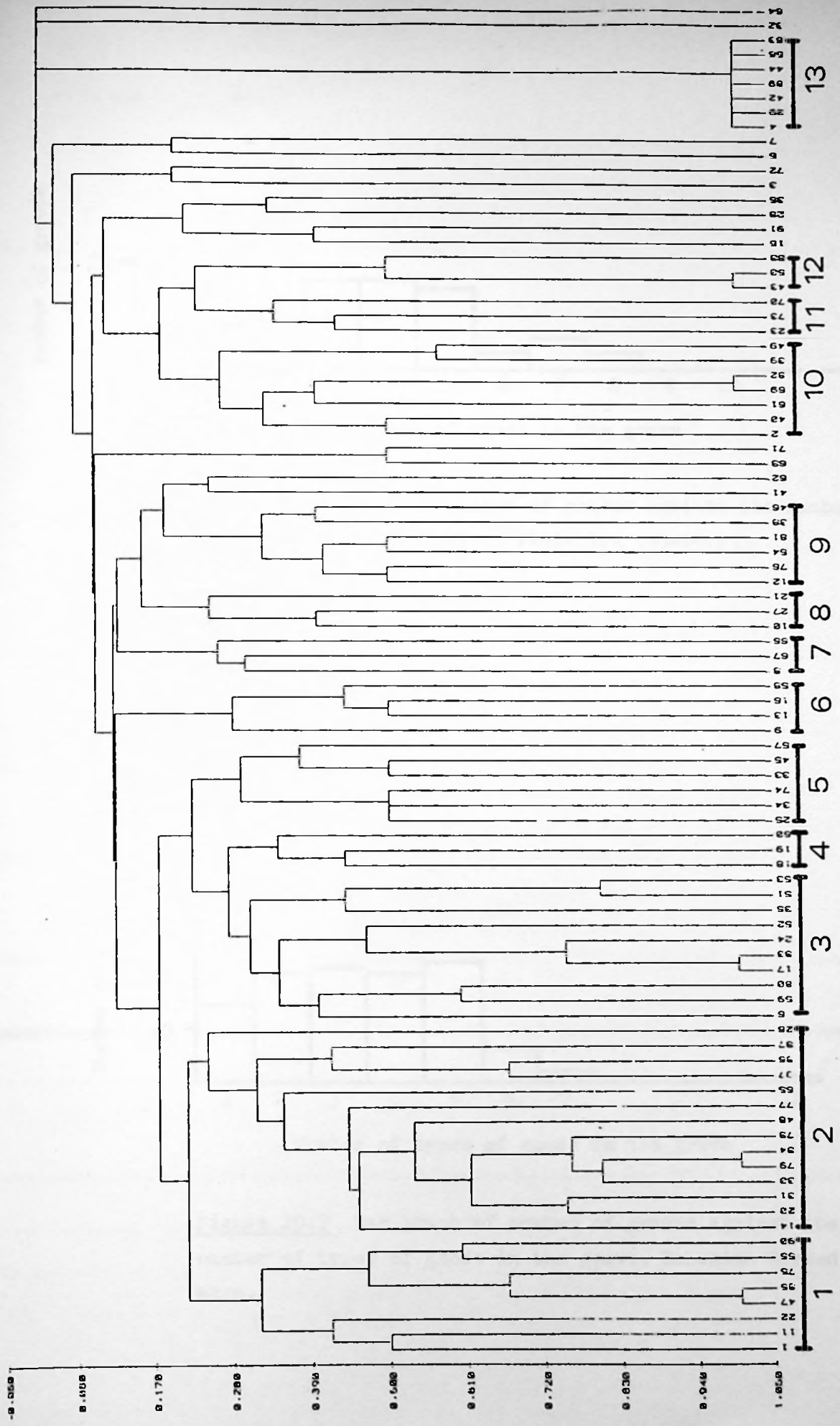
<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
-	15	Jug, decorated lugged beaker.
LHS	91	Decorated amphora, cordoned amphora, beaker, jug, decorated lugged beaker.
-	28	Jug, small handled Topf, copper, blade.
-	35	Jug, beaker, copper.
LHS	3	Cordoned amphora, beaker, small handled Topf, small lugged Topf.
LHS	72	Undecorated lugged beaker, small handled Topf.
LHS	5	Cordoned amphora, sherds, flint point, perforated teeth, bone bead.
LHS	7	Sherds.

Cluster 13

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
-	4	No goods.
RHS	29	" "
-	42	" "
LHS	89	" "
-	44	" "
-	56	" "
-	63	" "

Other

<u>Side</u>	<u>Grave No.</u>	<u>Contents</u>
<u>lying</u>		
LHS	32	Flint scraper.
-	64	Worked bone.





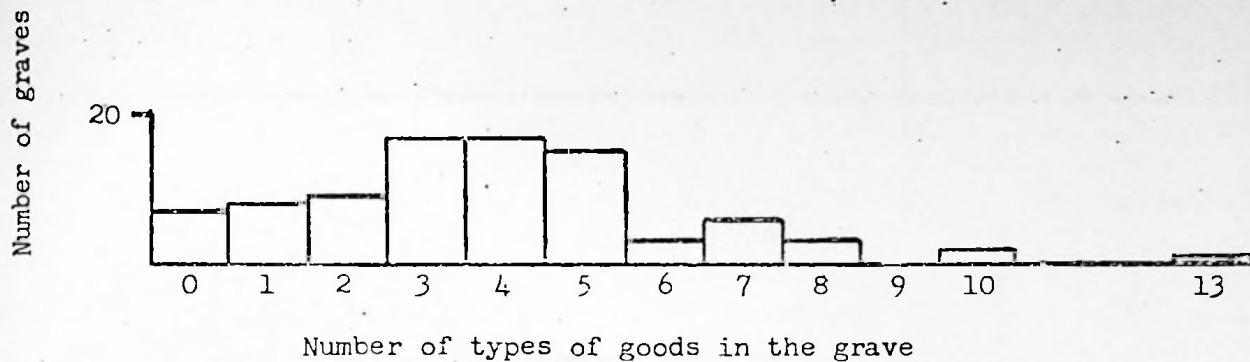


Figure 10.6 Bar graph of number of graves against the number of types of goods in the grave. Vikletice cemetery.

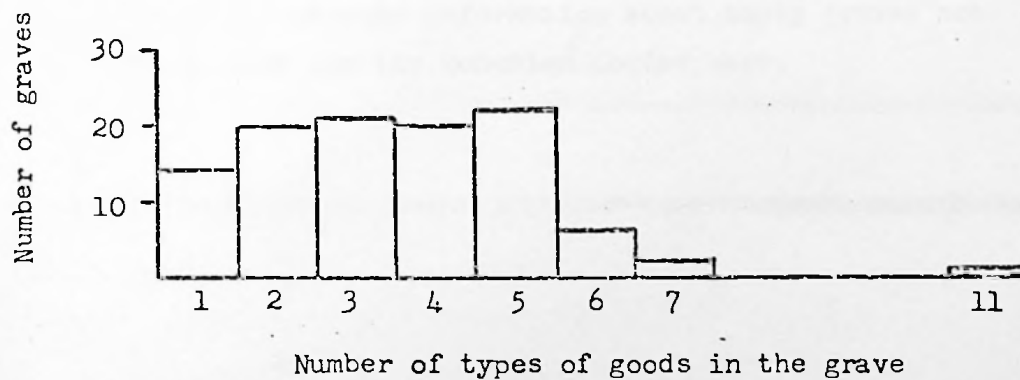


Figure 10.7 Bar graph of number of graves against the number of types of goods in the grave. Bohemian Corded Ware.



Figure 1: Histogram of the number of species in the genus *Staphylinidae*.



Figure 2: Histogram of the number of species in the genus *Staphylinidae*, showing a different distribution pattern.

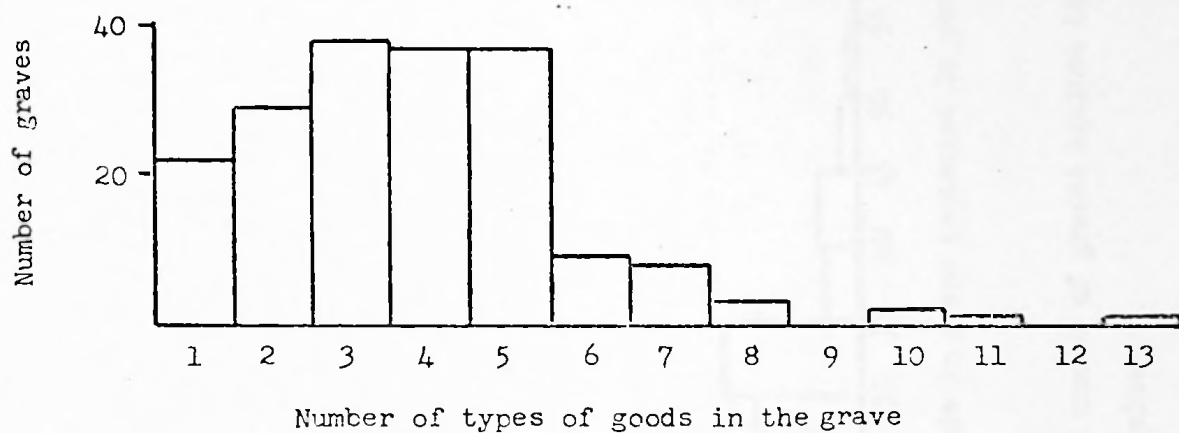


Figure 10.8 Bar graph of number of graves against the number of types of goods in the grave. Figures 10.6 and 10.7 combined. Graves from Vikletice with no goods excluded because information about empty graves not available for the Bohemian Corded Ware.

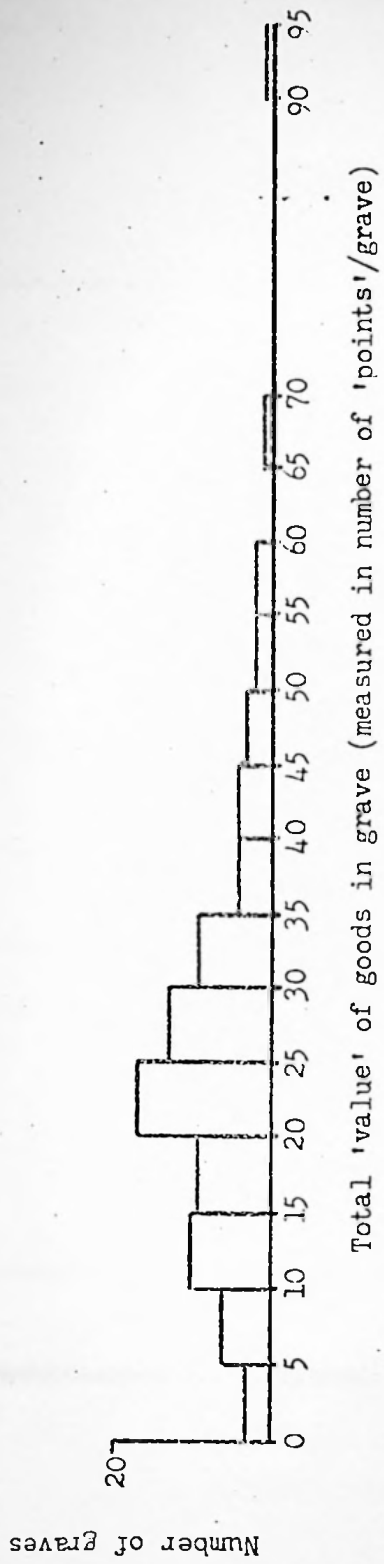


Figure 10.9 Bar graph of number of graves against total 'value' of goods in grave.
See text for meaning of 'value'.

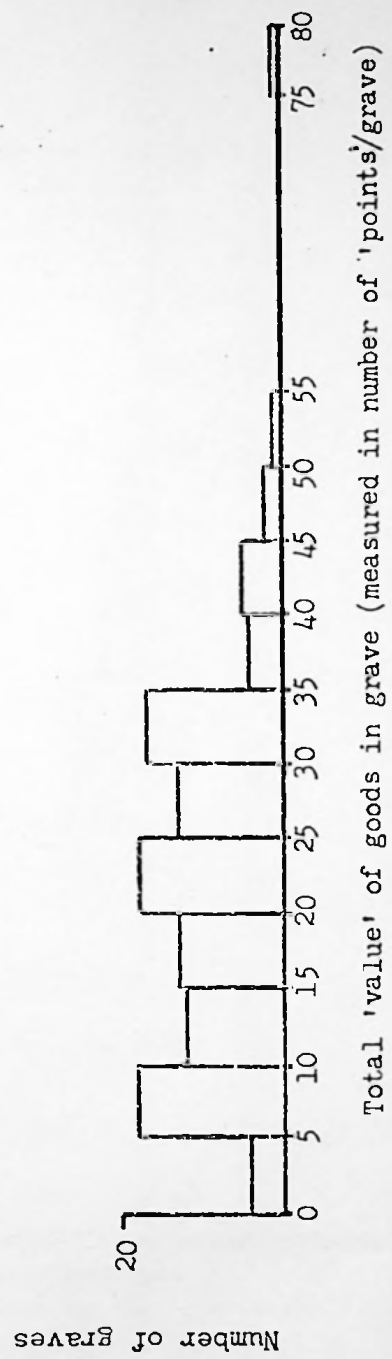


Figure 10.10 Bar graph of number of graves against total 'value' of goods in grave.
See text for meaning of 'value'.



Figure 1. Example of a line graph.

Figure 2. Example of a bar chart.



Figure 3. Example of a bar chart.

Figure 4. Example of a line graph.

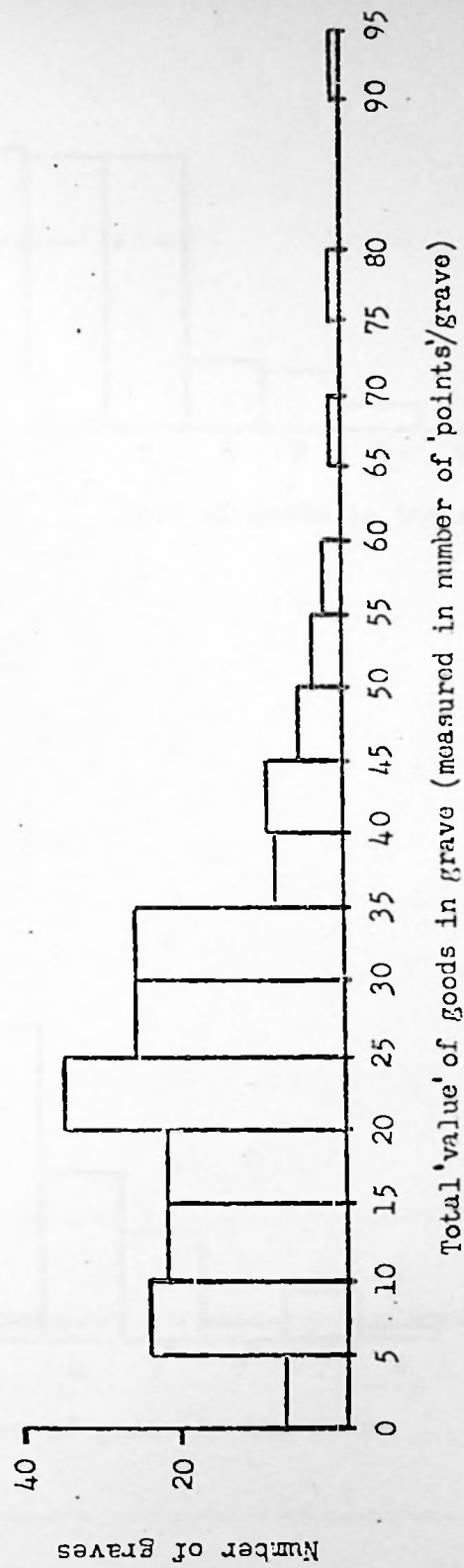


Figure 10.11 Bar graph of number of graves against total 'value' of goods in grave. Combination of figures 10.9 and 10.10. See text for meaning of 'value'.



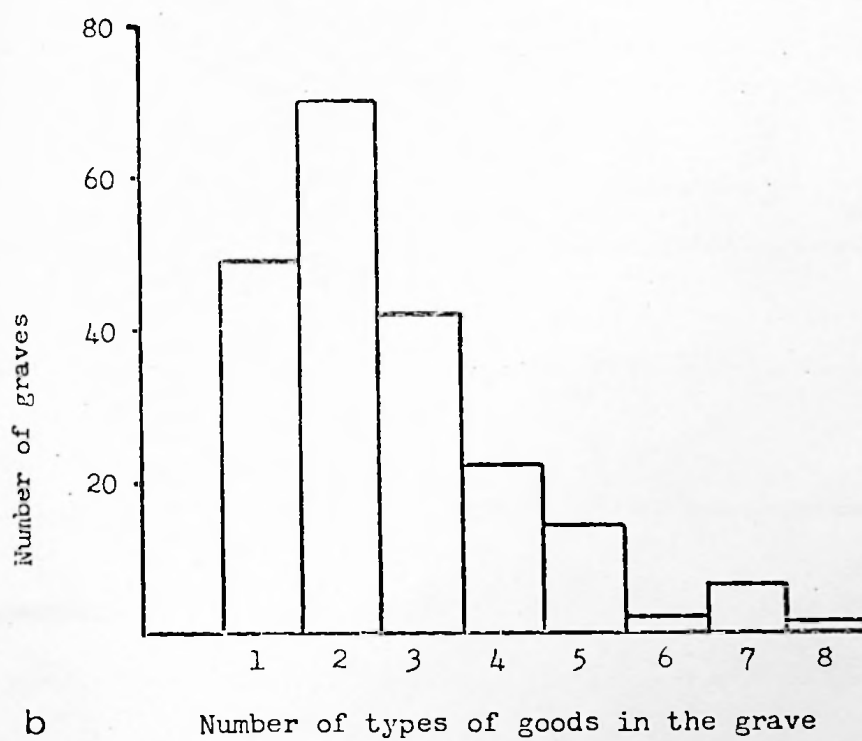
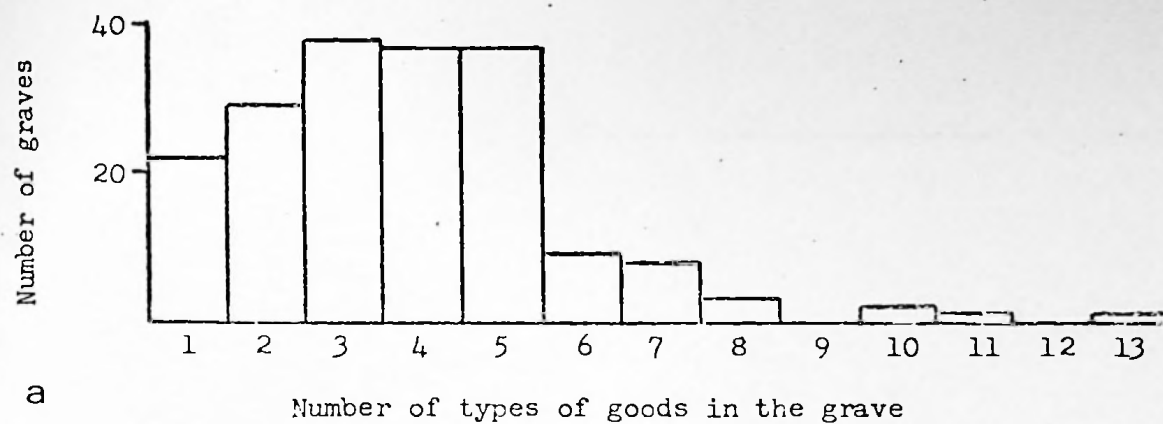


Figure 10.12 Bar graph of number of graves against the number of types of goods in the grave.

Comparison of Bohemian Corded Ware and Bohemian Bell Beakers.

a) Corded Ware

b) Bell Beakers



Figure 10.10: Histogram showing the distribution of scores for Group A. The x-axis represents scores from 1 to 10, and the y-axis represents frequency from 0 to 50. The distribution is roughly bell-shaped, peaking at scores 7 and 8.

Figure 10.11: Histogram showing the distribution of scores for Group B. The x-axis represents scores from 1 to 10, and the y-axis represents frequency from 0 to 40. The distribution is skewed to the right, peaking at score 7.

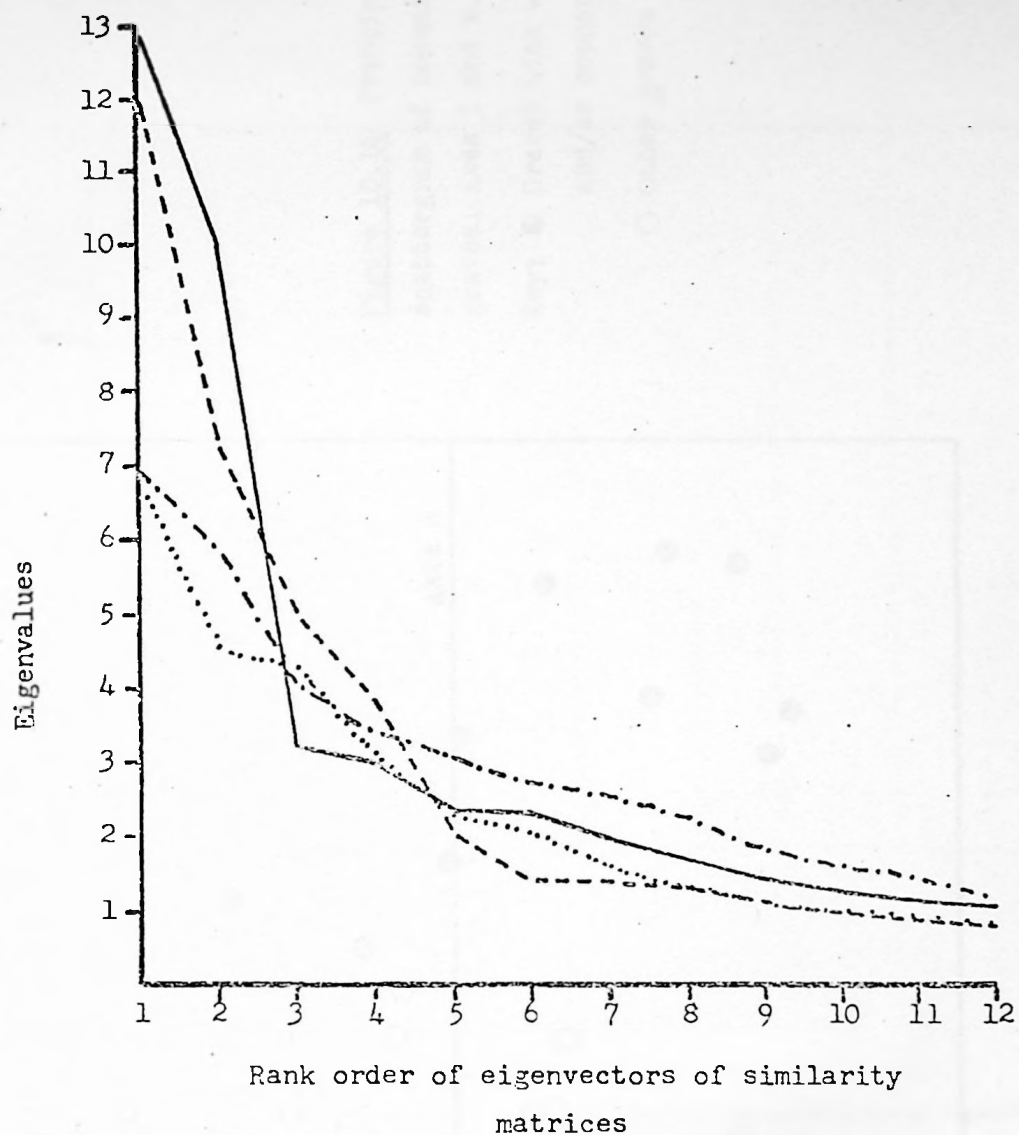


Figure 10.13 Graph of eigenvectors against their corresponding eigenvalues, from principal coordinates analyses of the Vikletice, Bohemian Corded Ware, Bohemian Bell Beaker and Moravian Bell Beaker similarity matrices.

Key: — Bohemian Bell Beakers
 ---- Moravian Bell Beakers
 -.-.- Bohemian Corded Ware
 Vikletice Corded Ware



Figure 1. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 2. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 3. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 4. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 5. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 6. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 7. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 8. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 9. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 10. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 11. A line graph showing the relationship between the number of hours spent studying and the score on a test.

Figure 12. A line graph showing the relationship between the number of hours spent studying and the score on a test.

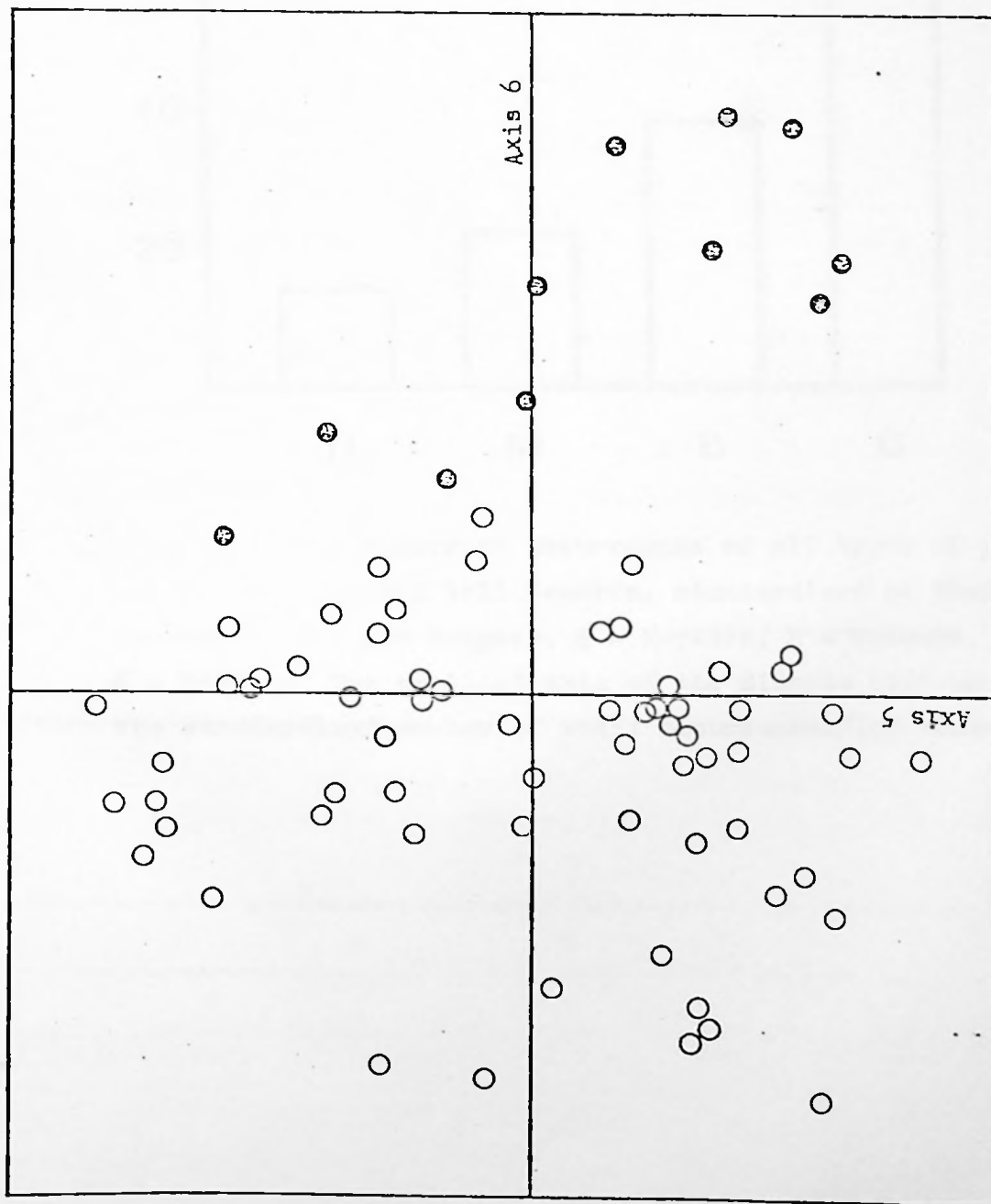
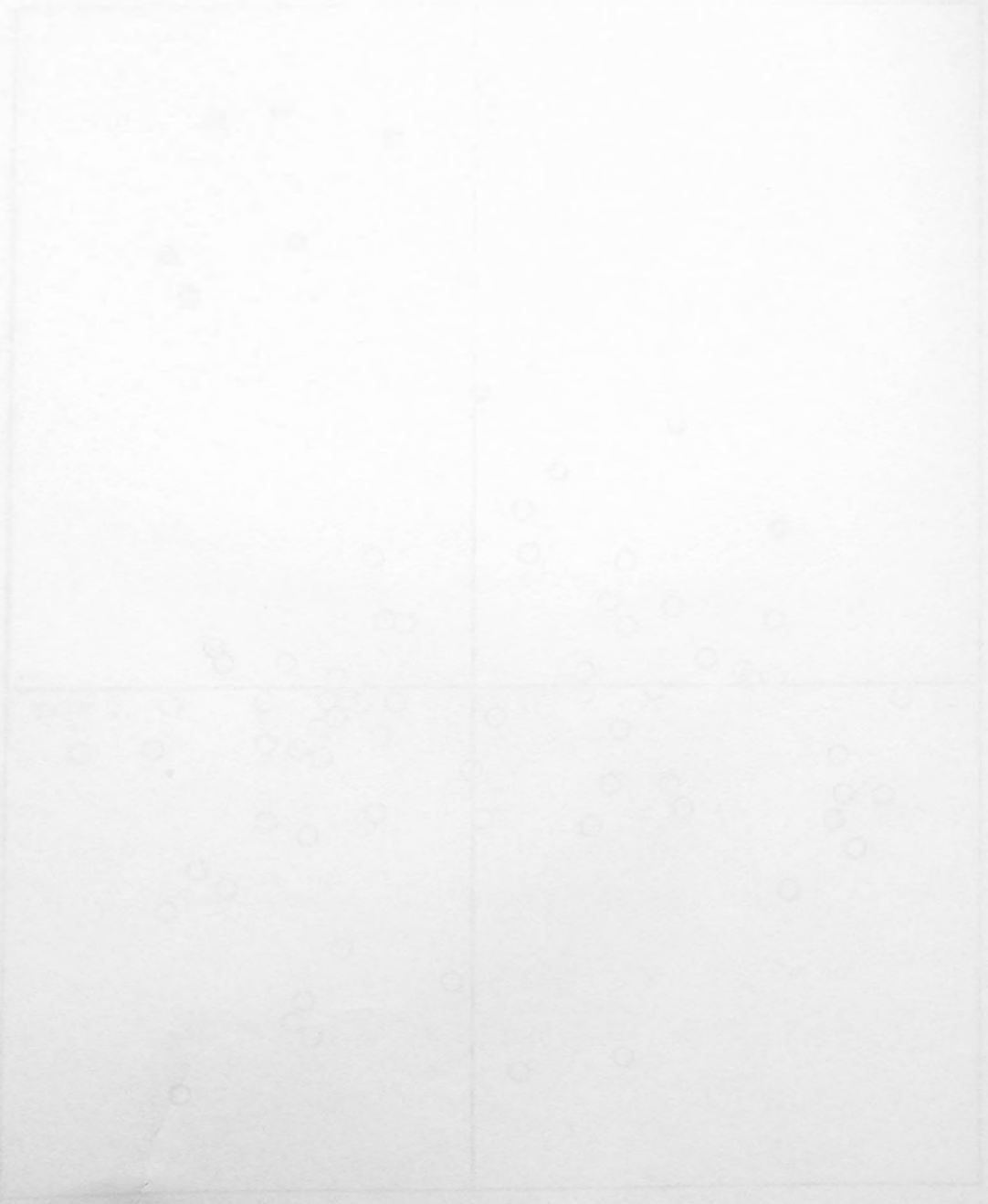


Figure 10.14 Principal Coordinates scattergram of Bohemian Bell Beaker graves. Axes 5 and 6.

Key: ● Graves with wrist-guards and/or copper daggers.
○ Other graves



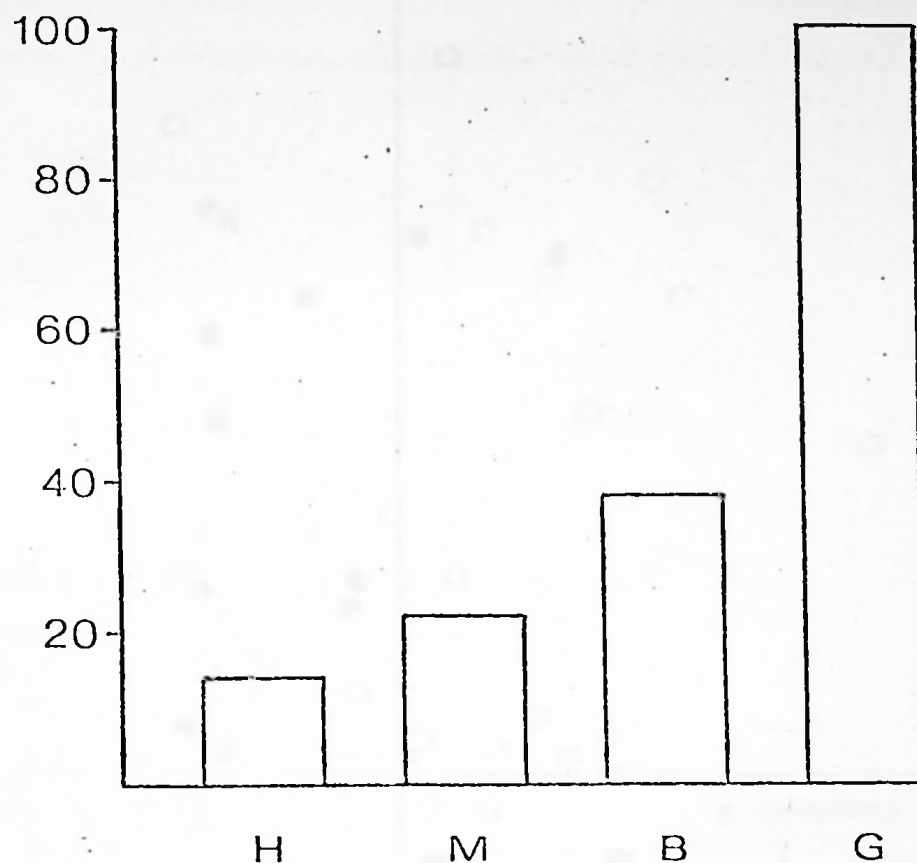


Figure 11.1 The number of occurrences of all types of panel motif/100 decorated Bell Beakers, standardised so that Germany = 100. H = Hungary, M = Moravia, B = Bohemia, G = Germany. The vertical axis of the diagram represents the standardised number of motif occurrences/100 vessels.



Figure 1: A bar chart showing the distribution of a variable across five categories. The y-axis is labeled 'COUNT' and ranges from 0 to 100. The x-axis is labeled 'CATEGORIES' and has five categories labeled 1, 2, 3, 4, and 5. The bars show counts of approximately 100, 40, 30, 20, and 10 respectively.

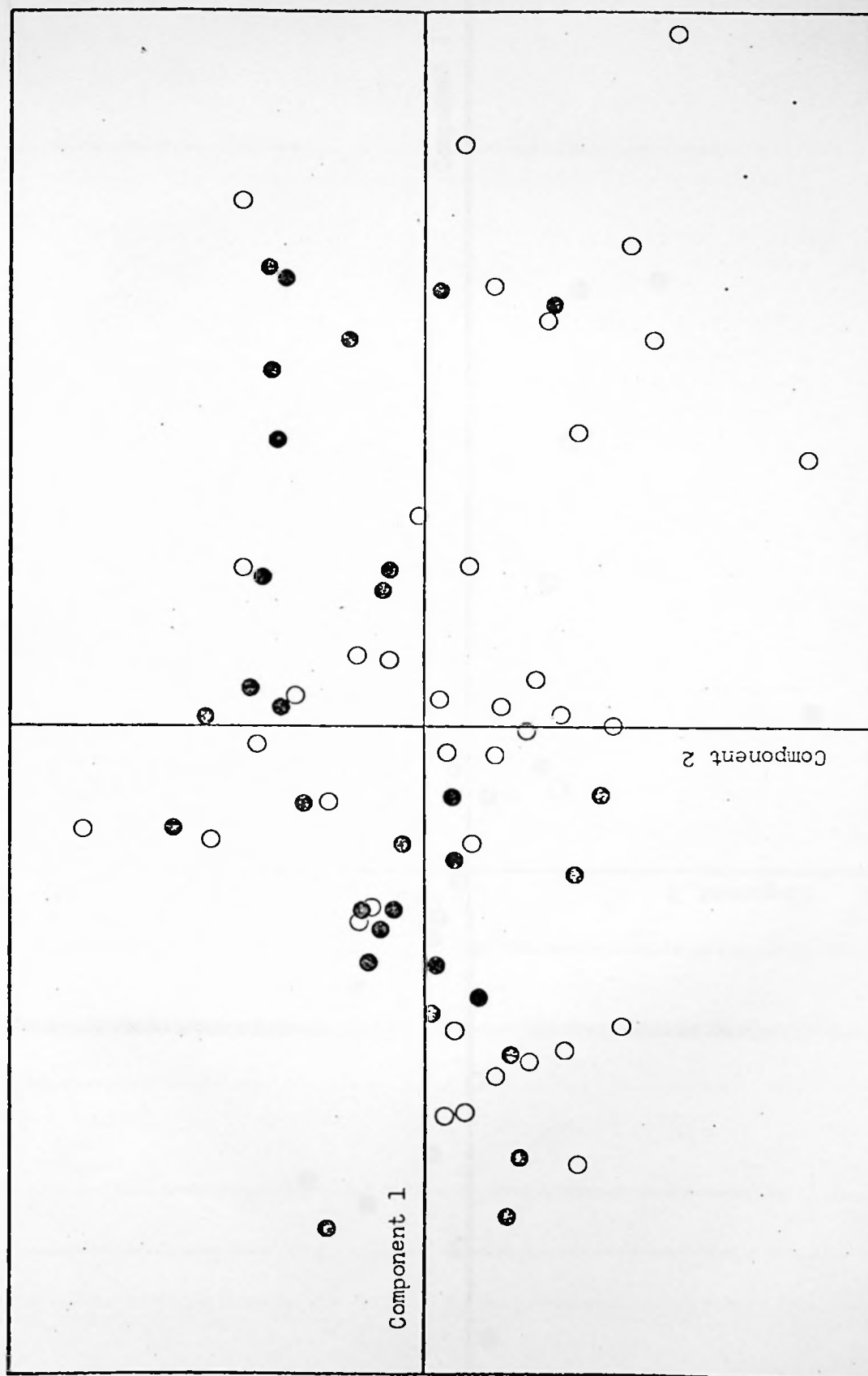


Figure 11.2 Principal components scattergram of
 Bohemian Corded Ware and Bell Beaker jugs.
 Axes are components 1 and 2.



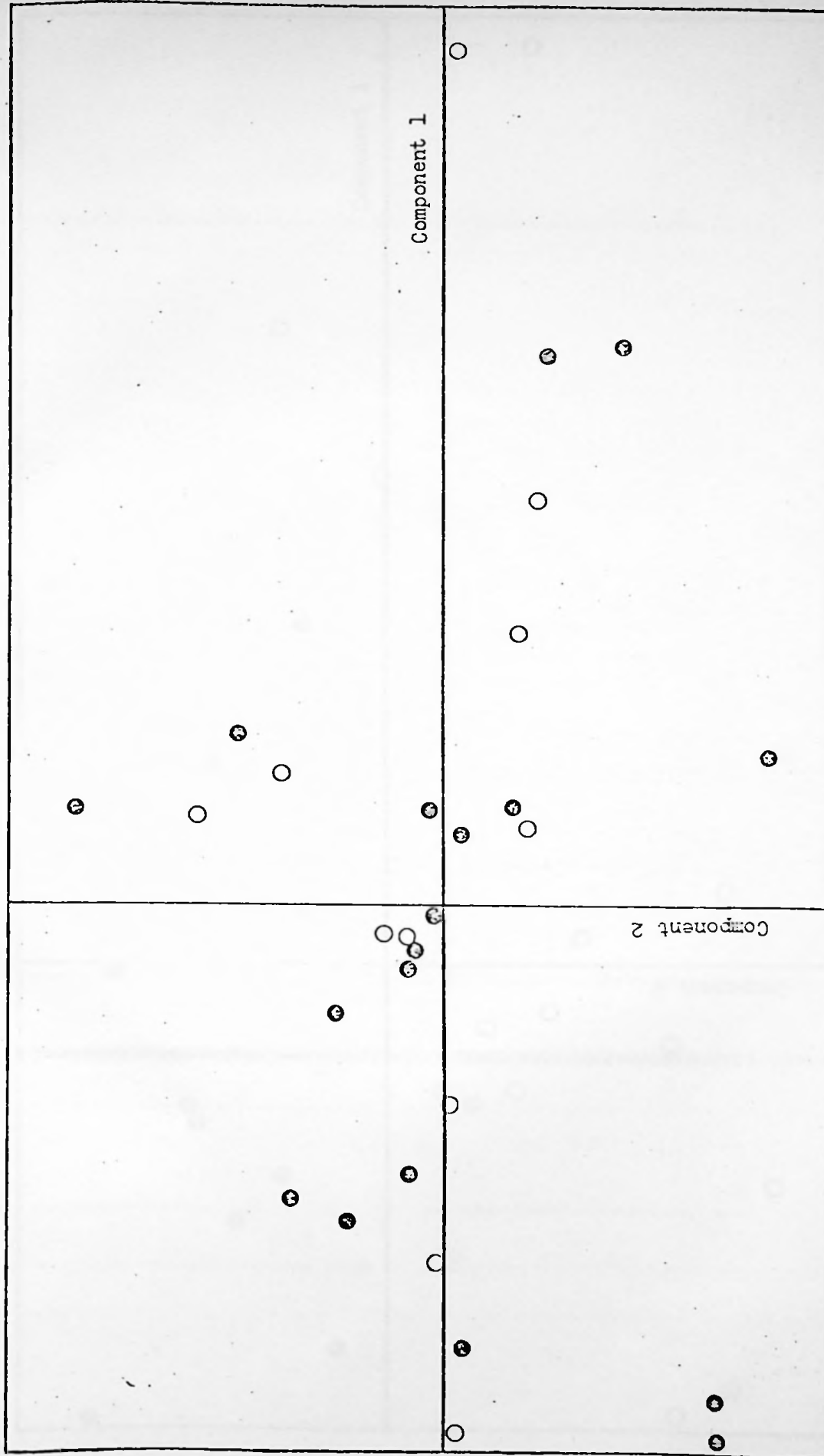


Figure 11.3 Principal components scattergram of Bohemian Corded Ware and Bell Beaker bowls. Axes are components 1 and 2.

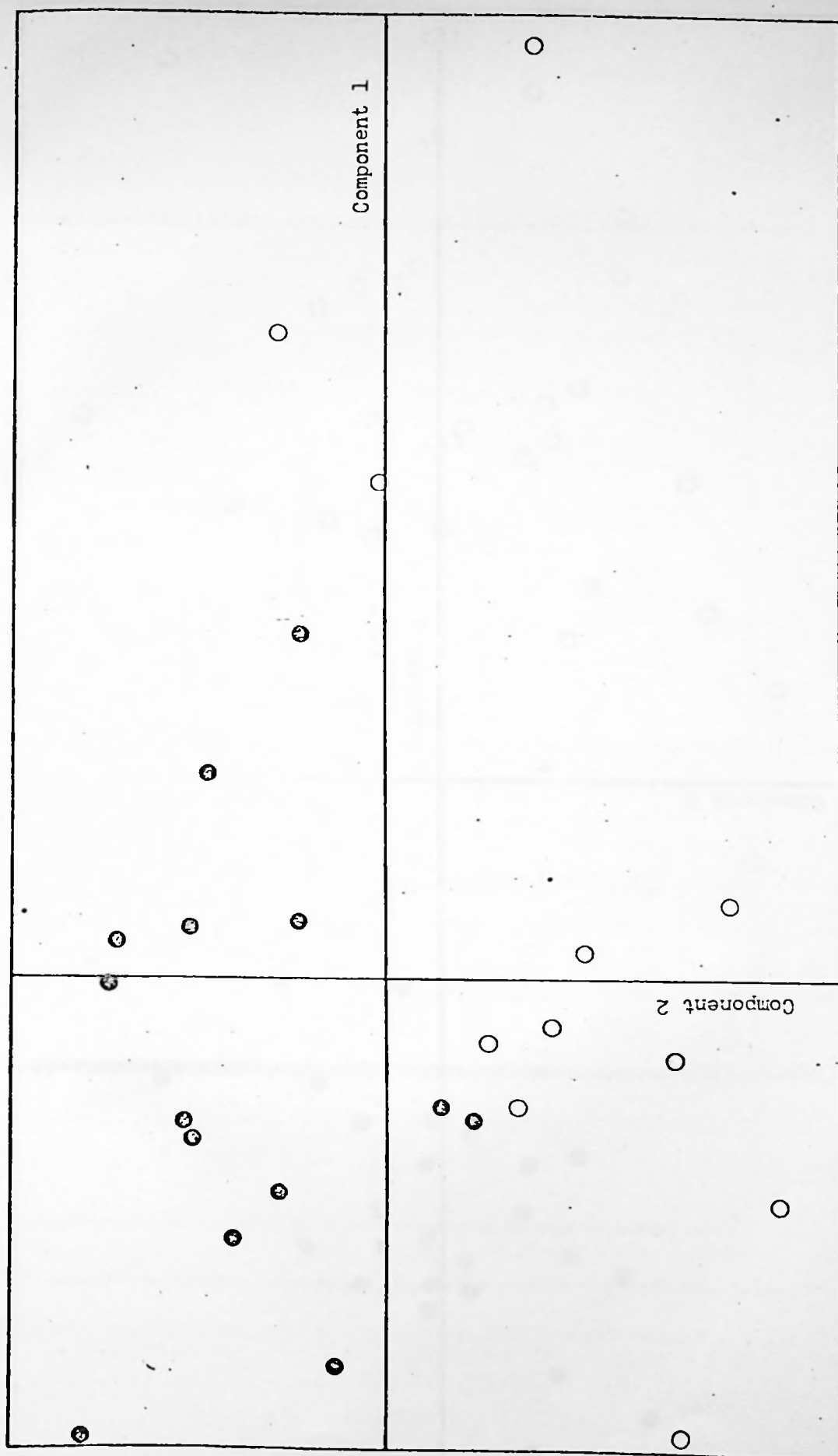


Figure 11.4 Principal components scattergram of Bohemian Corded Ware and Bell Beaker 'Topf'.

Axes are components 1 and 2.

Key: ● Bell Beaker 'Töpfe'
○ Corded Ware 'Töpfe'

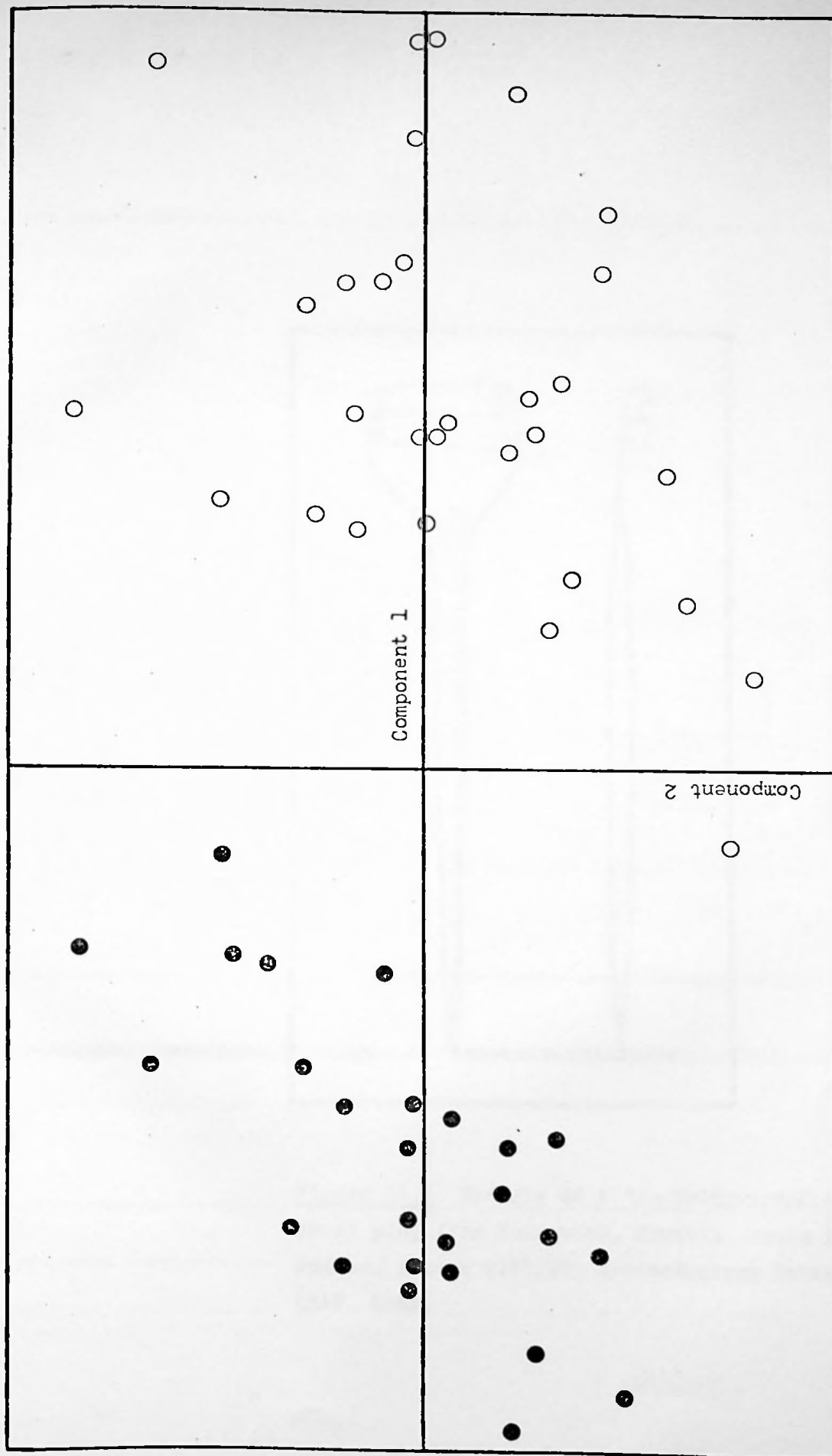
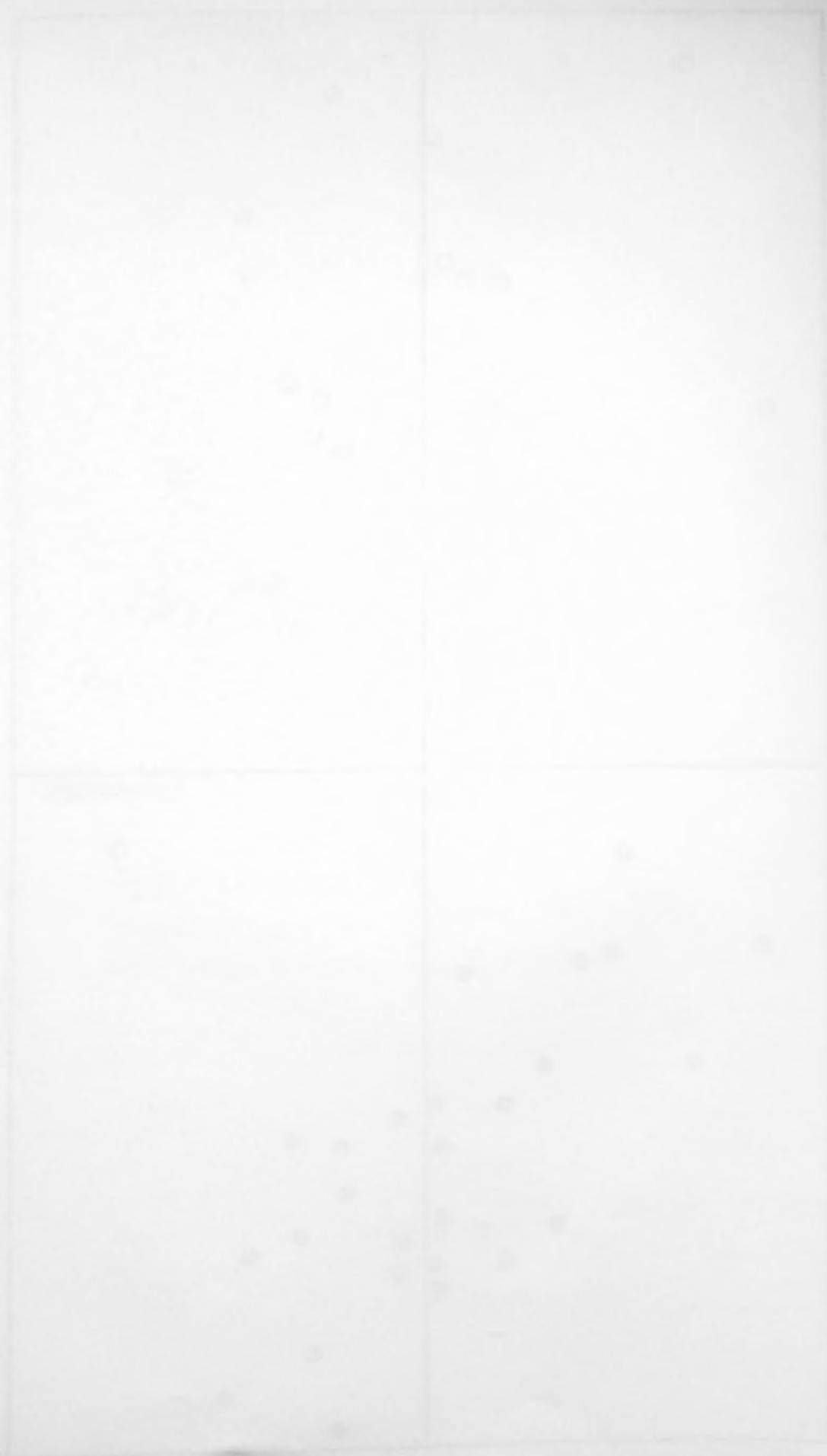


Figure 11.5 Principal components scattergram of Bohemian Corded Ware and Bell Beaker decorated beakers. Axes are components 1 and 2.



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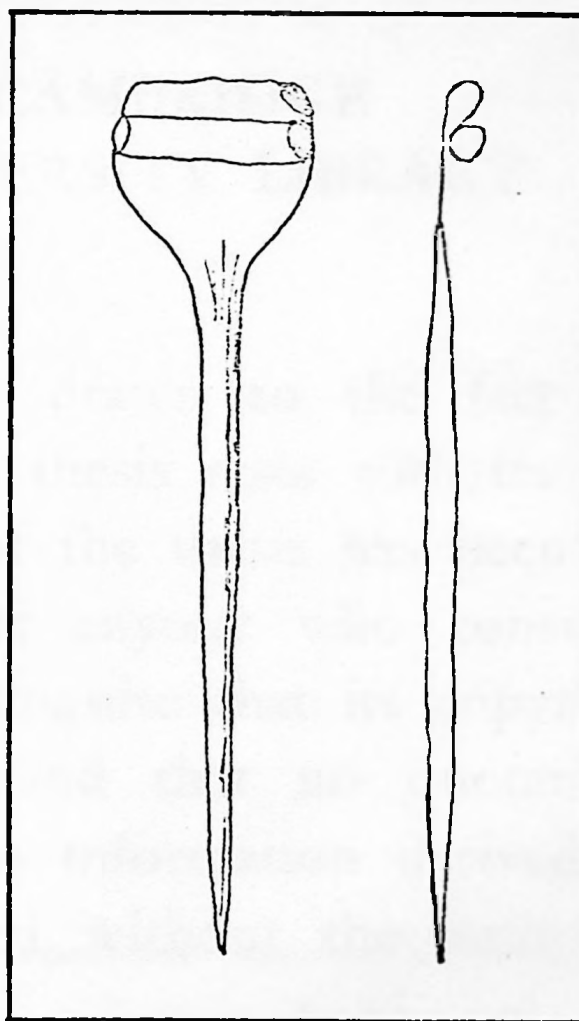


Figure 11.6 Example of a 'doppeltgekröpfte' metal pin, from Budkovice, Moravia. Scale 1:1
Source: report 4167/59, Archeologický Ústav ČSAV, Brno.