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UNIVERSITY OF SOUTHAMPTON
FACULTY OF ARTS
DEPARTMENT OF ARCHAEOLOGY

THE NEOLITHIC OF WALES AND THE
MID-WEST OF ENGLAND: A SYSTEMIC
ANALYSIS OF SOCIAL CHANGE
THROUGH THE APPLICATION OF
ACTION THEORY.

BY TIMOTHY CHARLES DARVILL

Doctor of Philosophy

1983

Volume 2

(MASTER COPY)

FIGURES

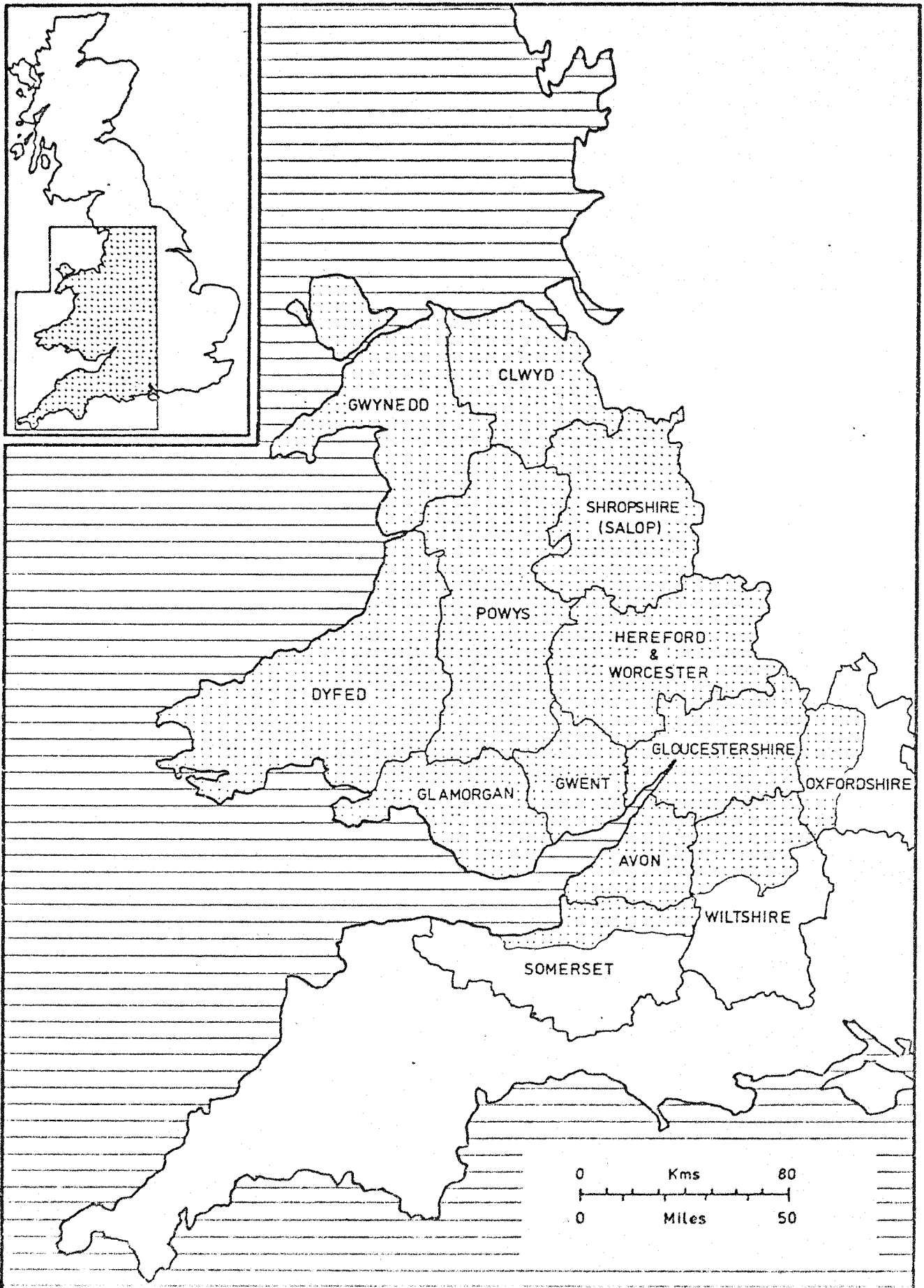


FIGURE 1. Location and extent of the study area.

"COMPOSER" THEORY DESIGN

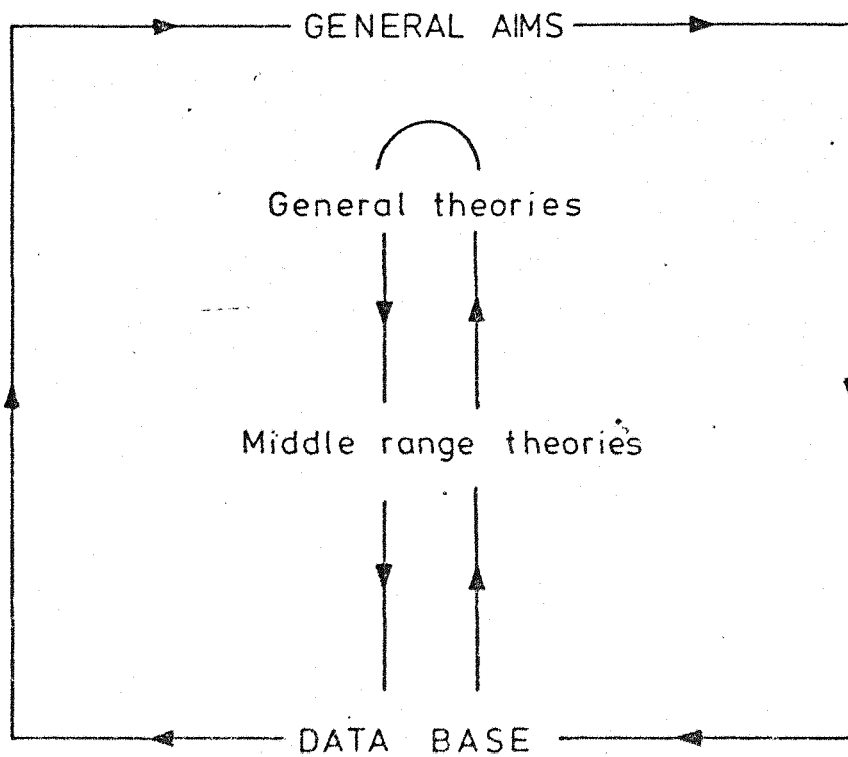
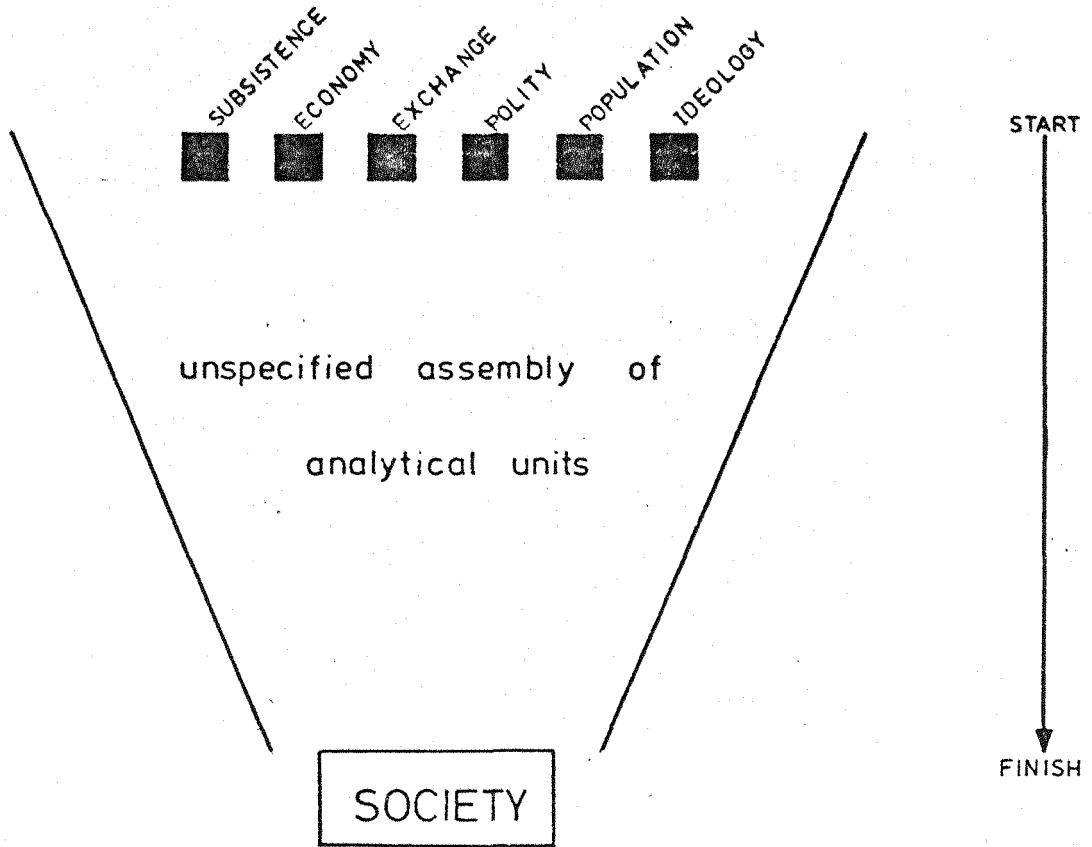


FIGURE 2. Design of "composer" models.

"DECOMPOSER" THEORY DESIGN

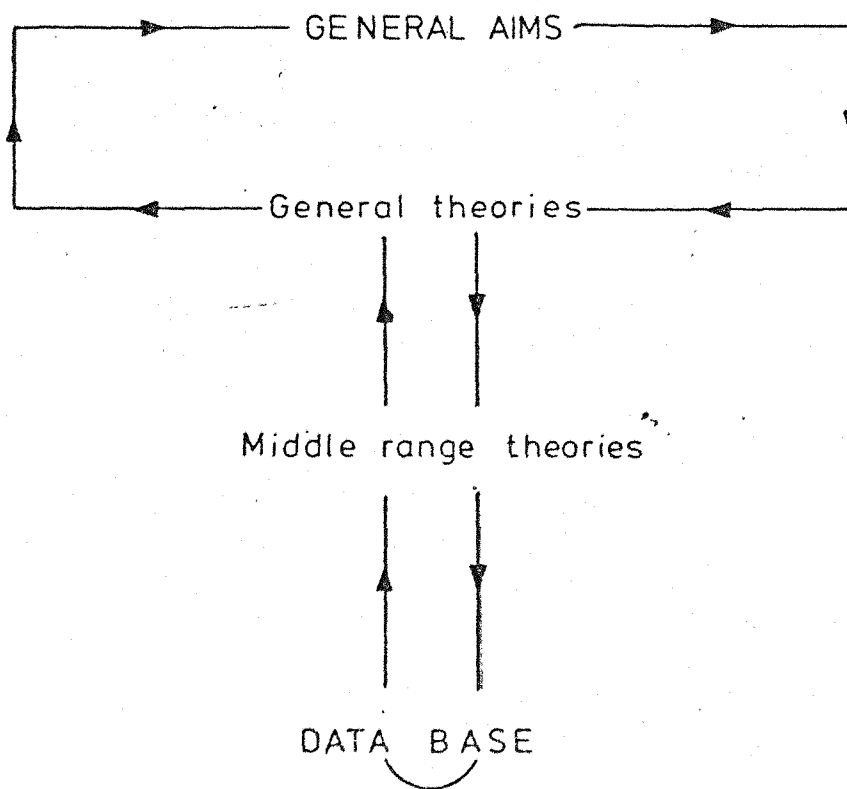
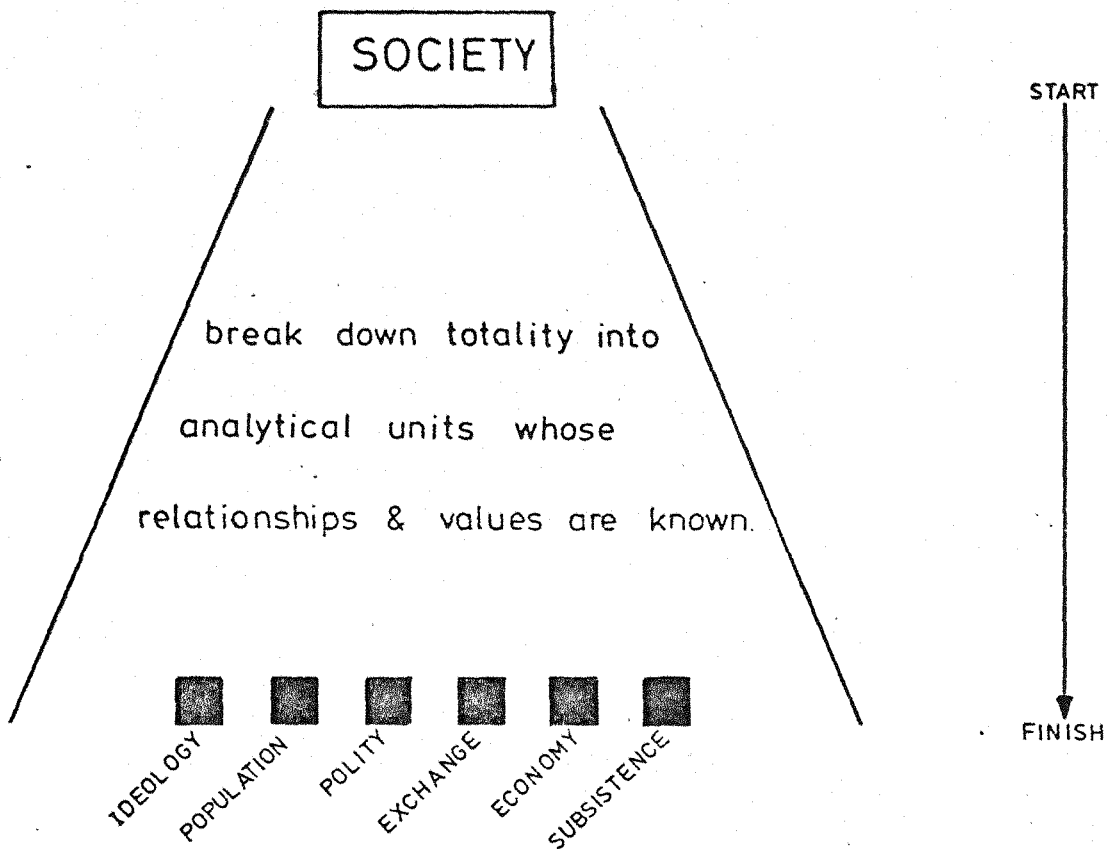


FIGURE 3. Design of "decomposer" models.

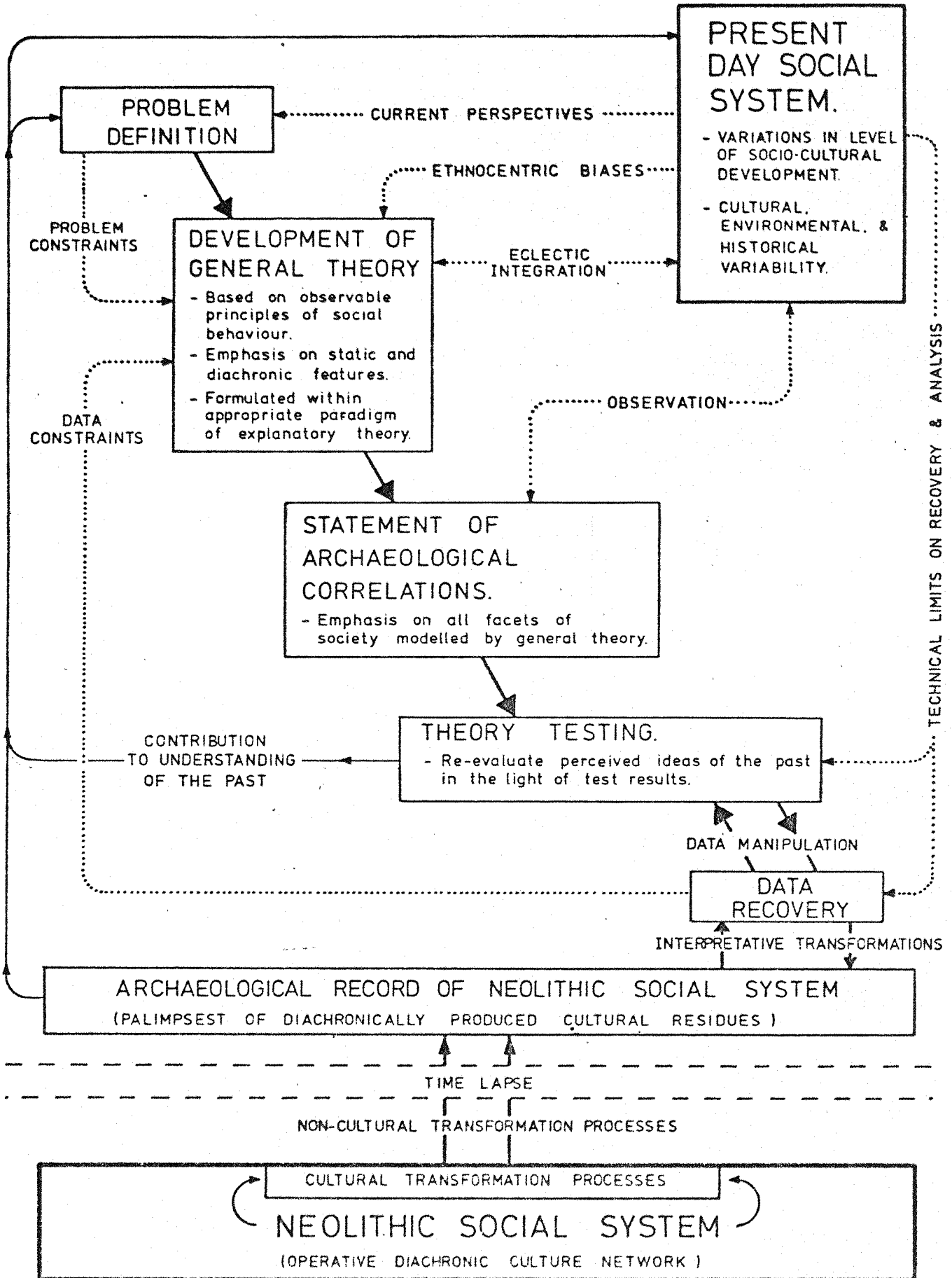


FIGURE 4. Scheme of decomposer model building showing construction and constraints.

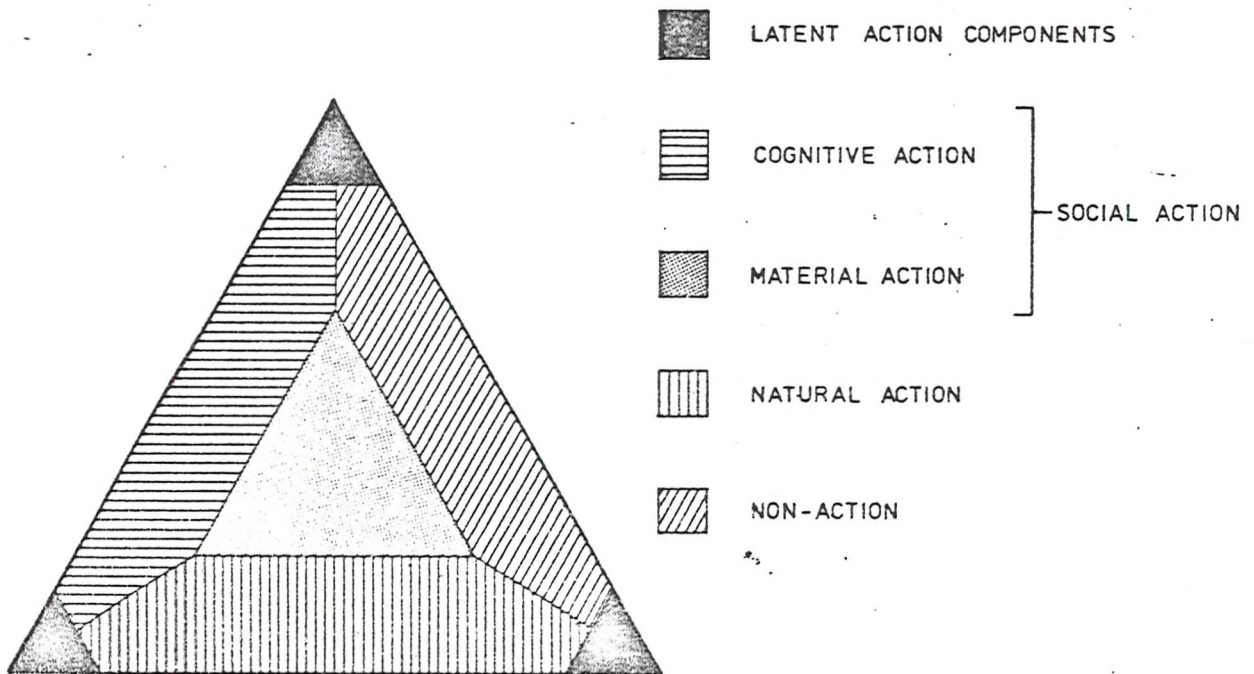
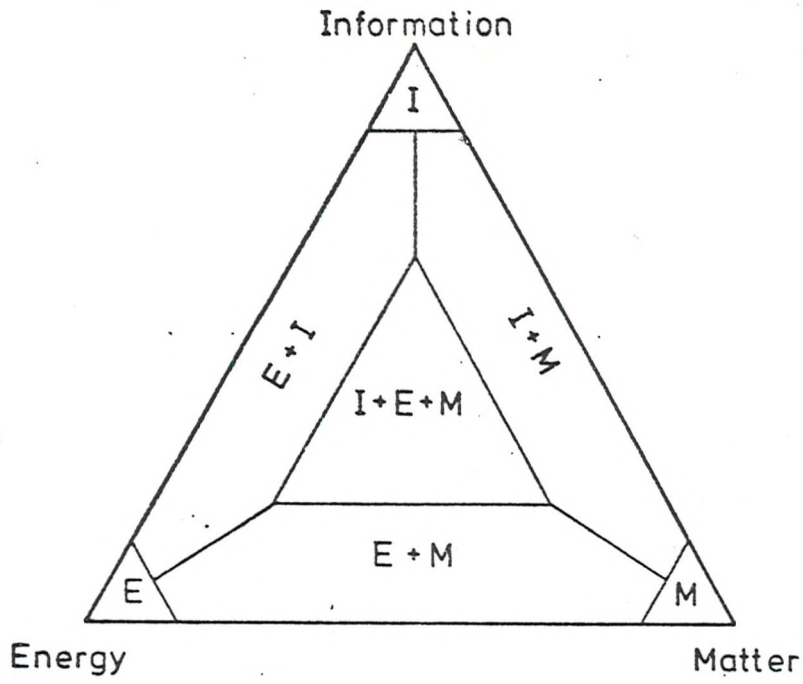


FIGURE 5. Patterns of action node transformations.

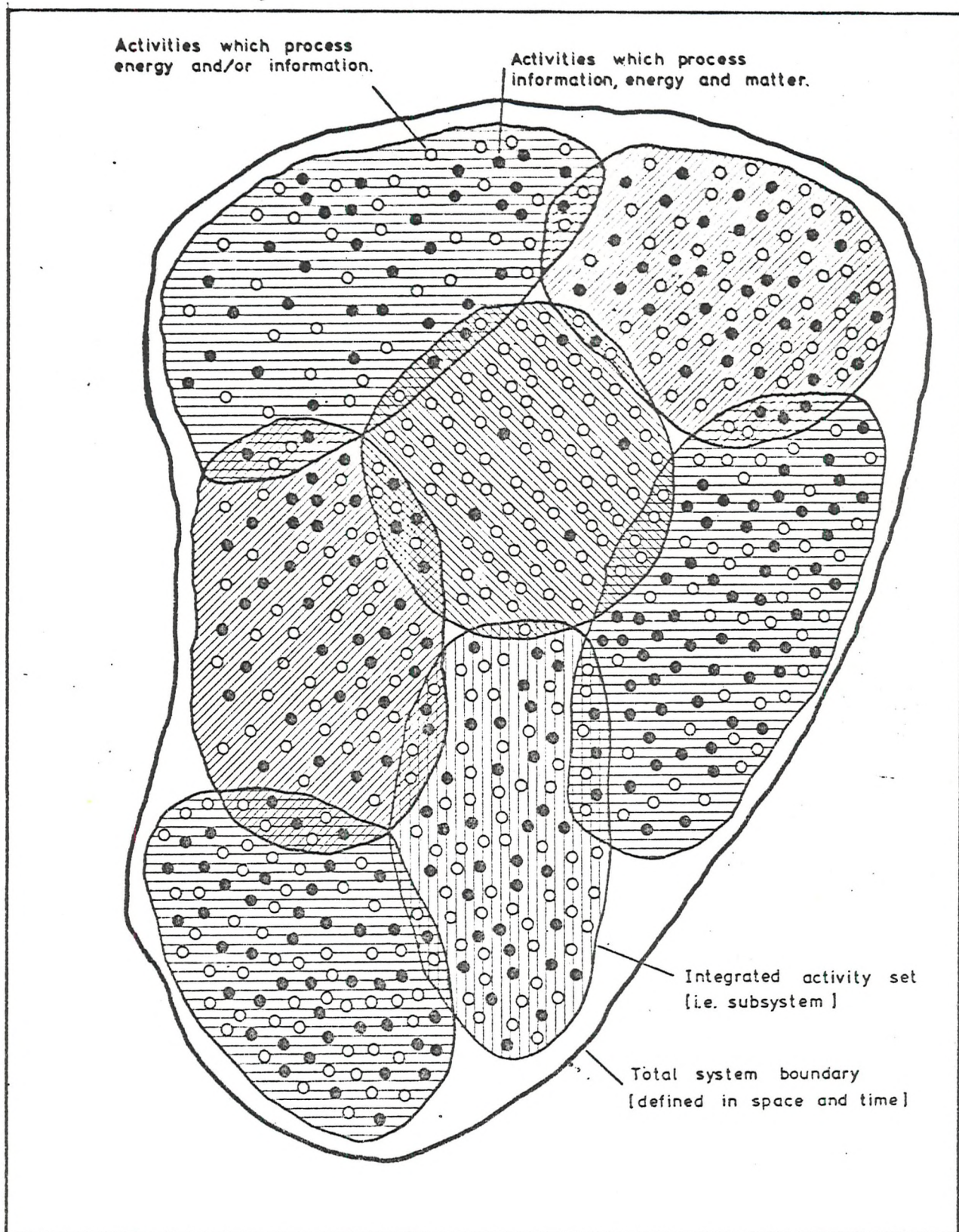
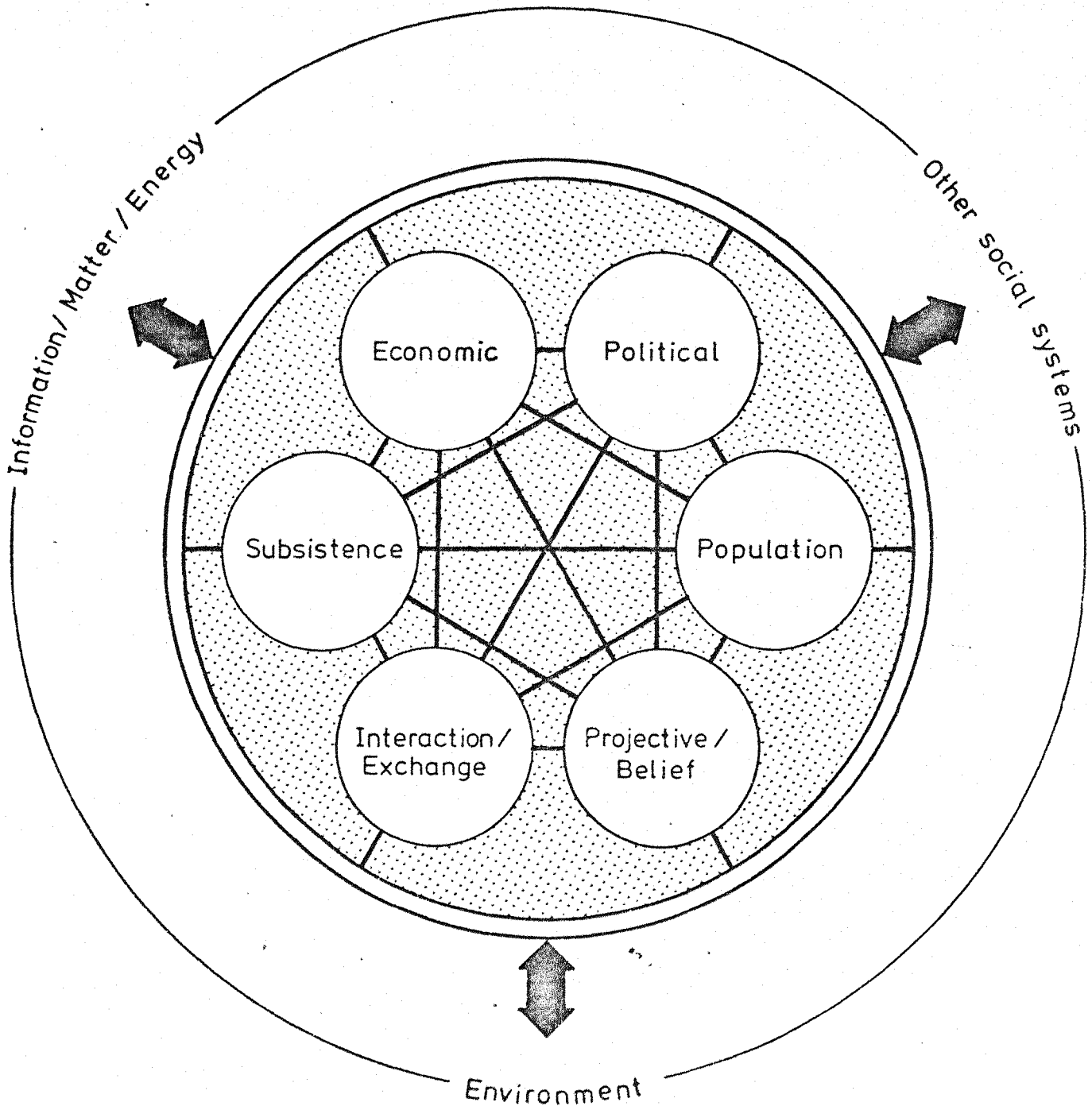


FIGURE 6. Venn diagram showing a "snap shot" image of actions/activities undertaken within a social system.

SOCIAL SYSTEM MODEL. [BRITISH NEOLITHIC]



Subsystem definition= Integrated activity sets.

FIGURE 7. Schematic representation of a social system showing internal subdivisions and interactions.

SUBSYSTEM HIERARCHY

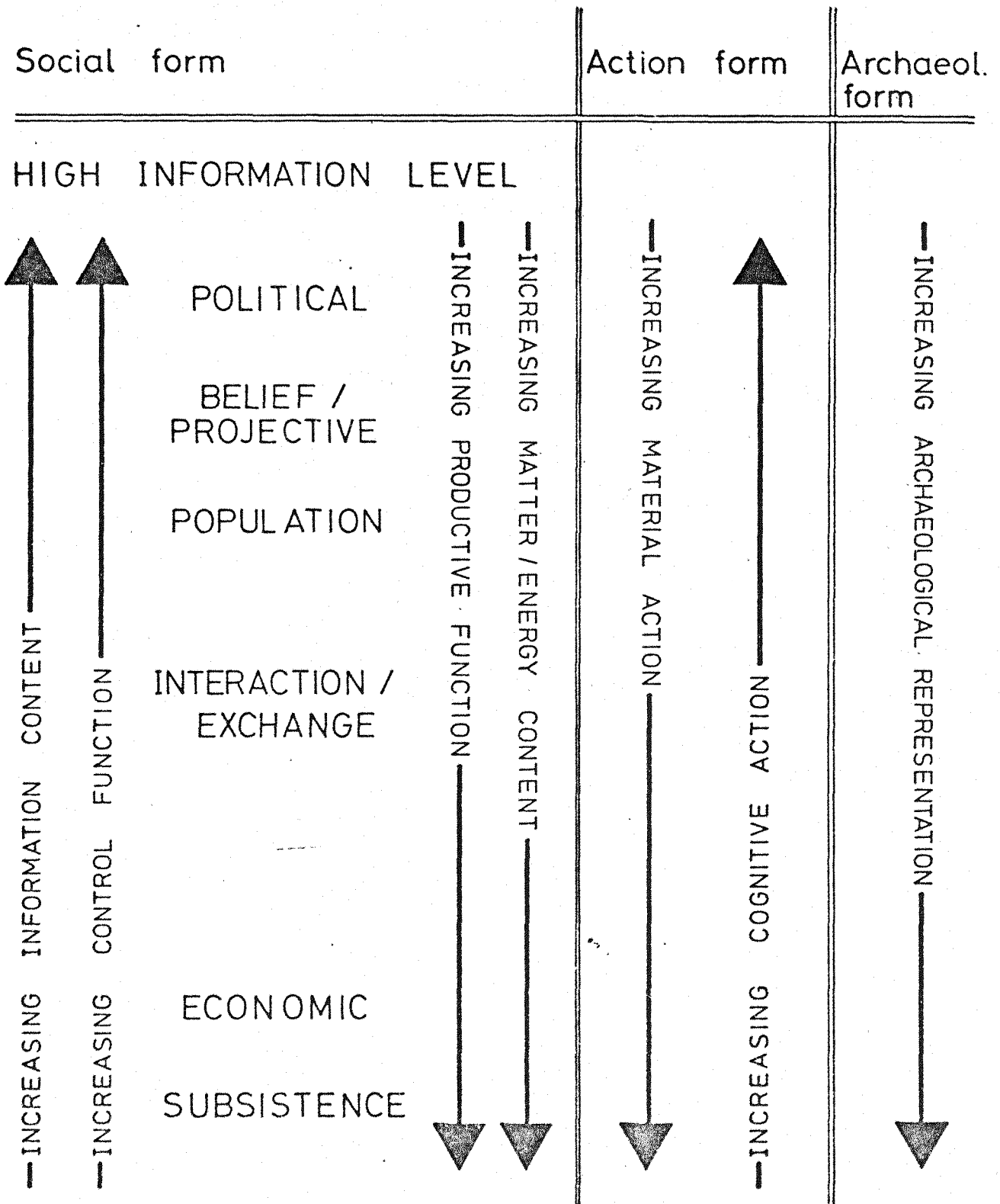


FIGURE 8. Provisional cybernetic hierarchy adapted to archaeological subsystems.

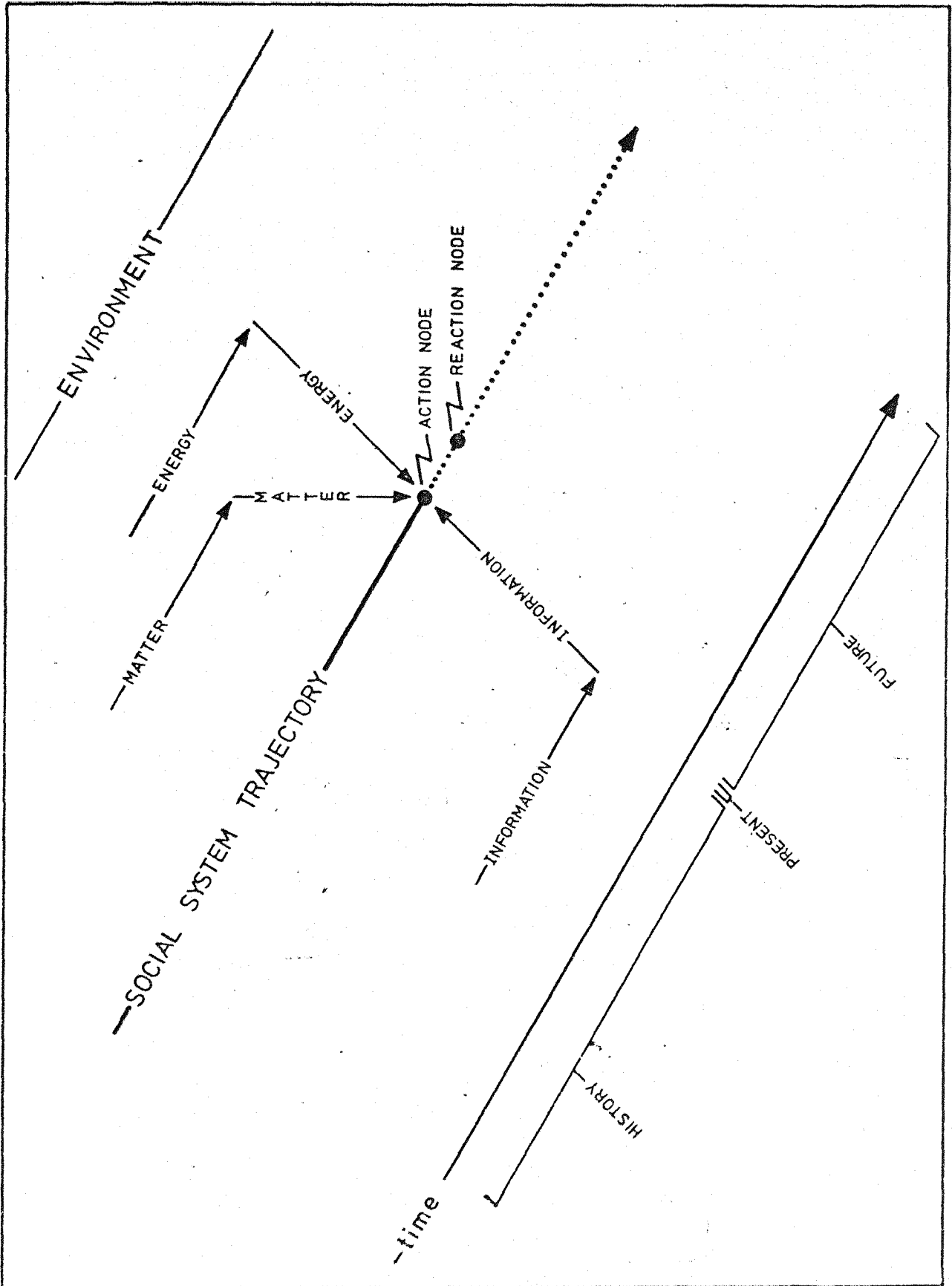


FIGURE 9. Schematic representation of an action trajectory showing the nature of the action node.

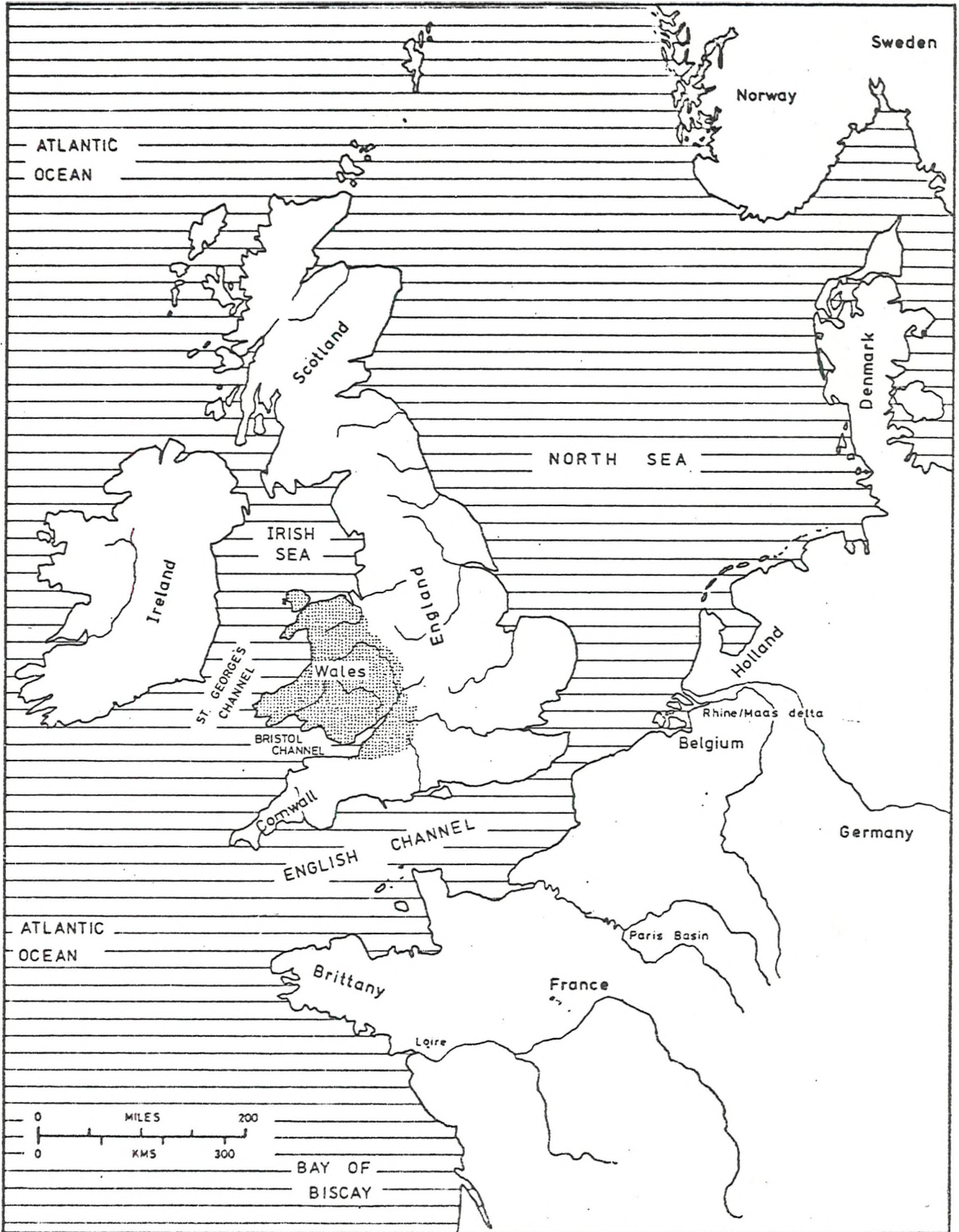


FIGURE 10. The study area (stippled) in relation to its north European setting.

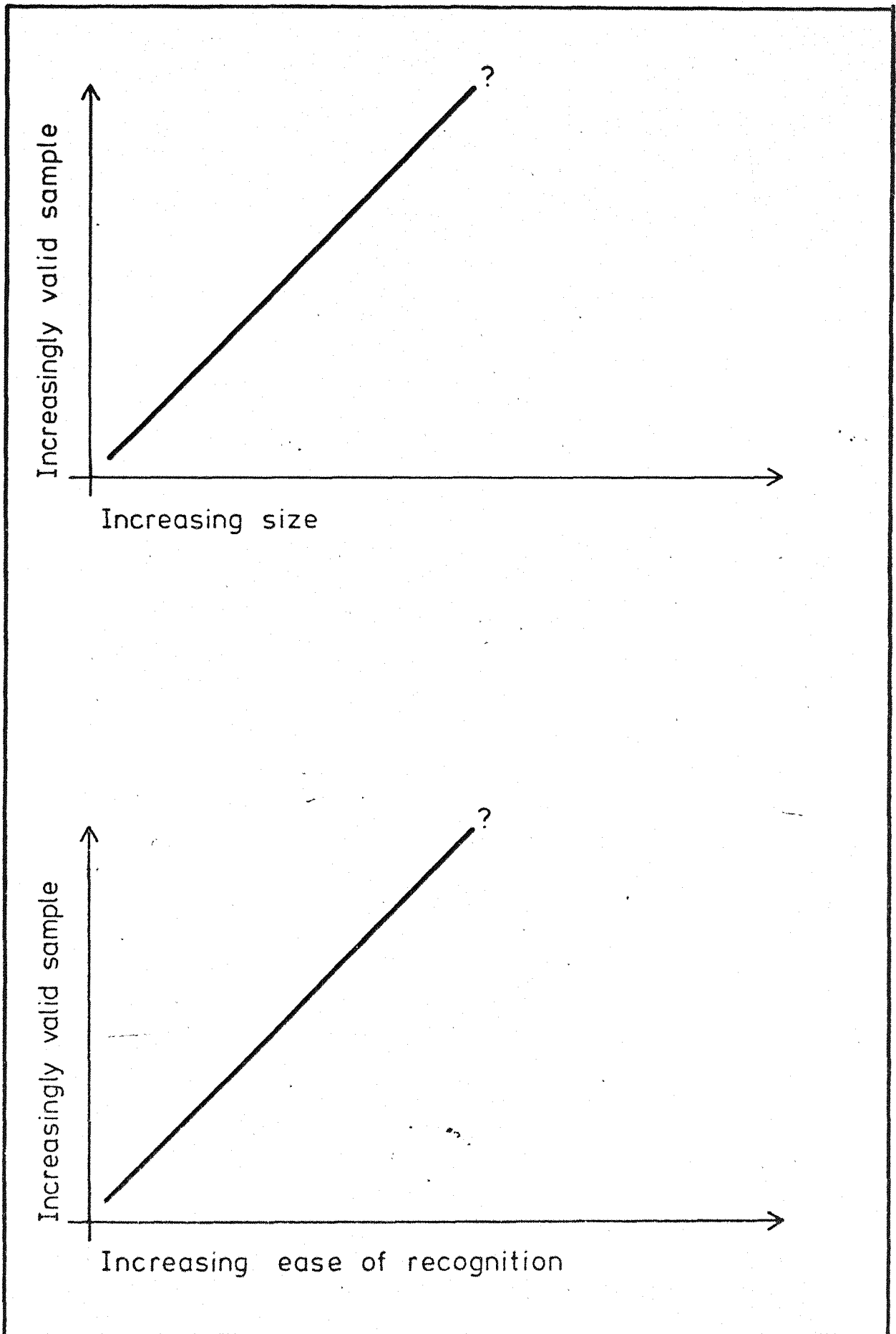


FIGURE 11. Suggested relationships between factors determining recovery of archaeological data and validity of the known sample.

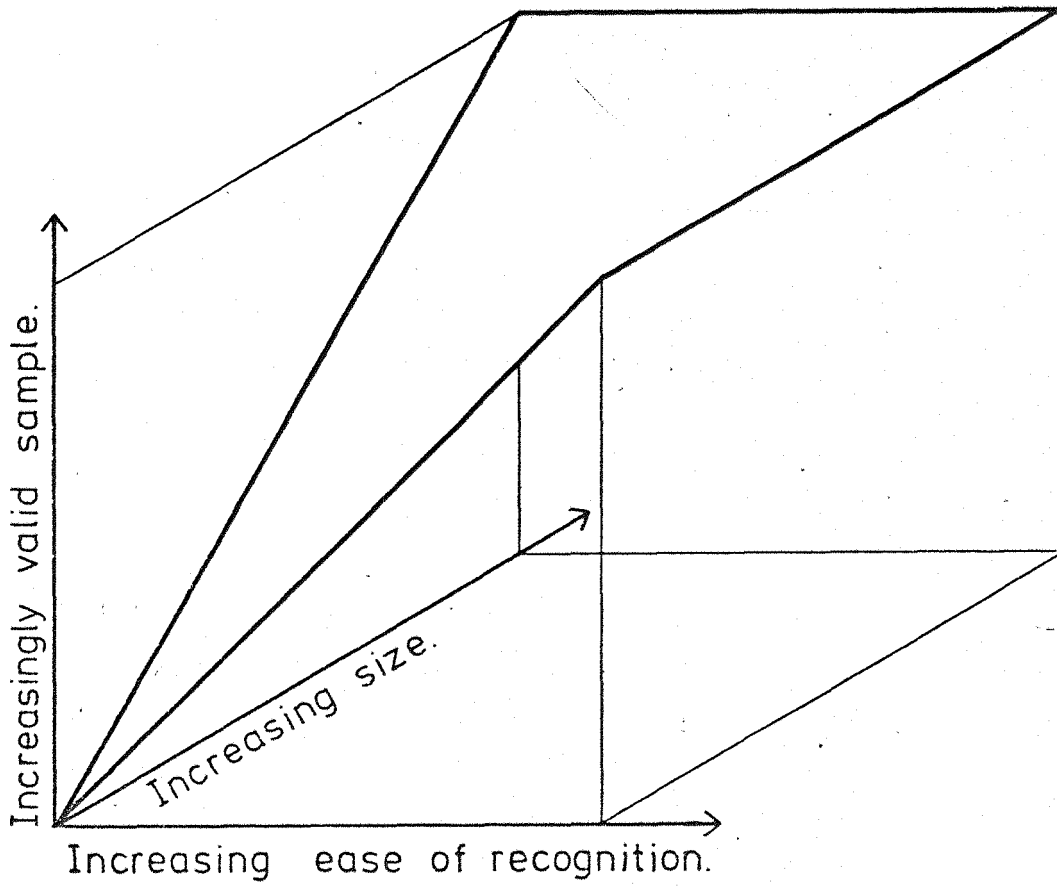


FIGURE 12. Composite model of suggested relationships between factors determining recovery of archaeological data and validity of the known sample.

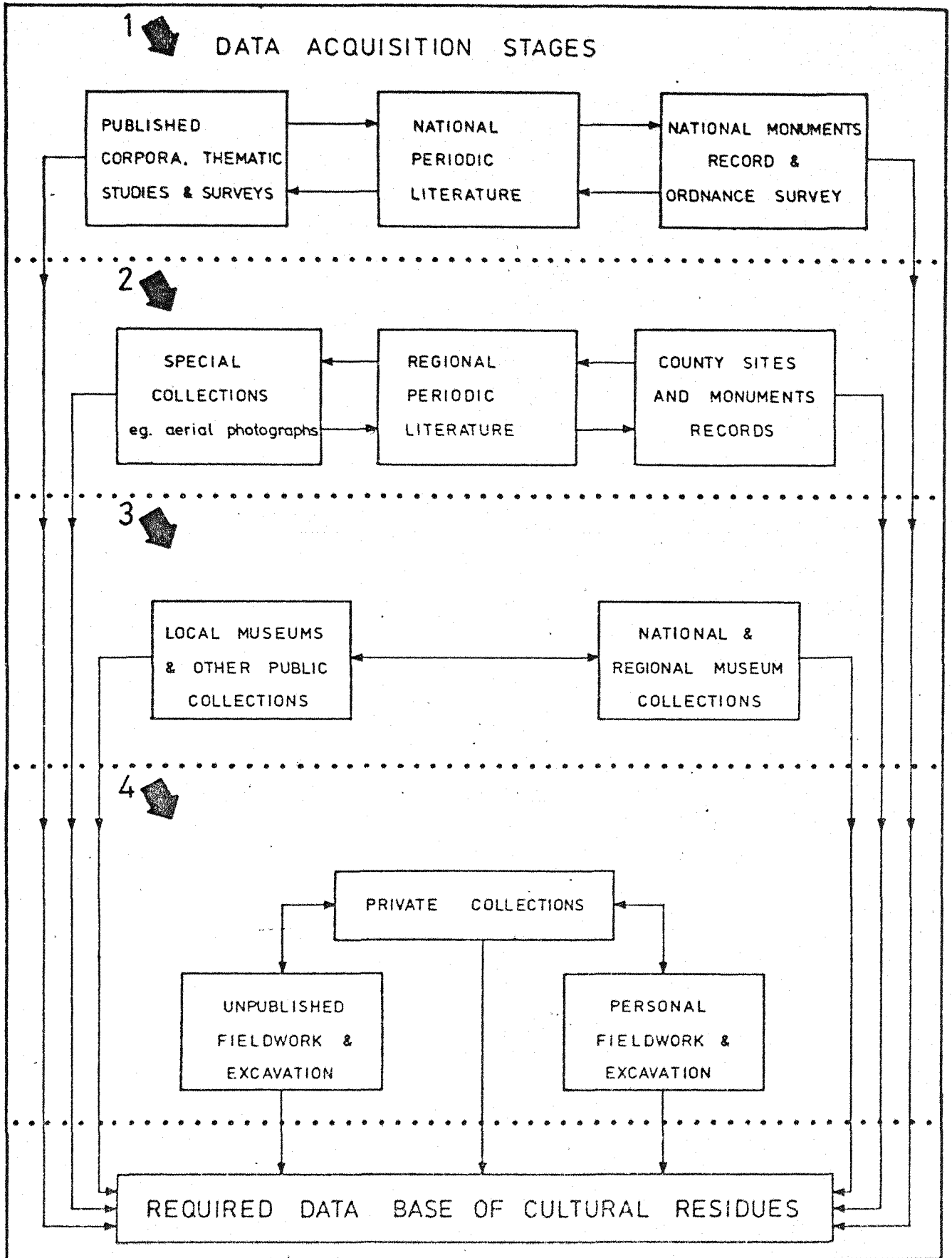


FIGURE 13. Flow diagram outlining the order in which various sources of information were exploited during data acquisition.

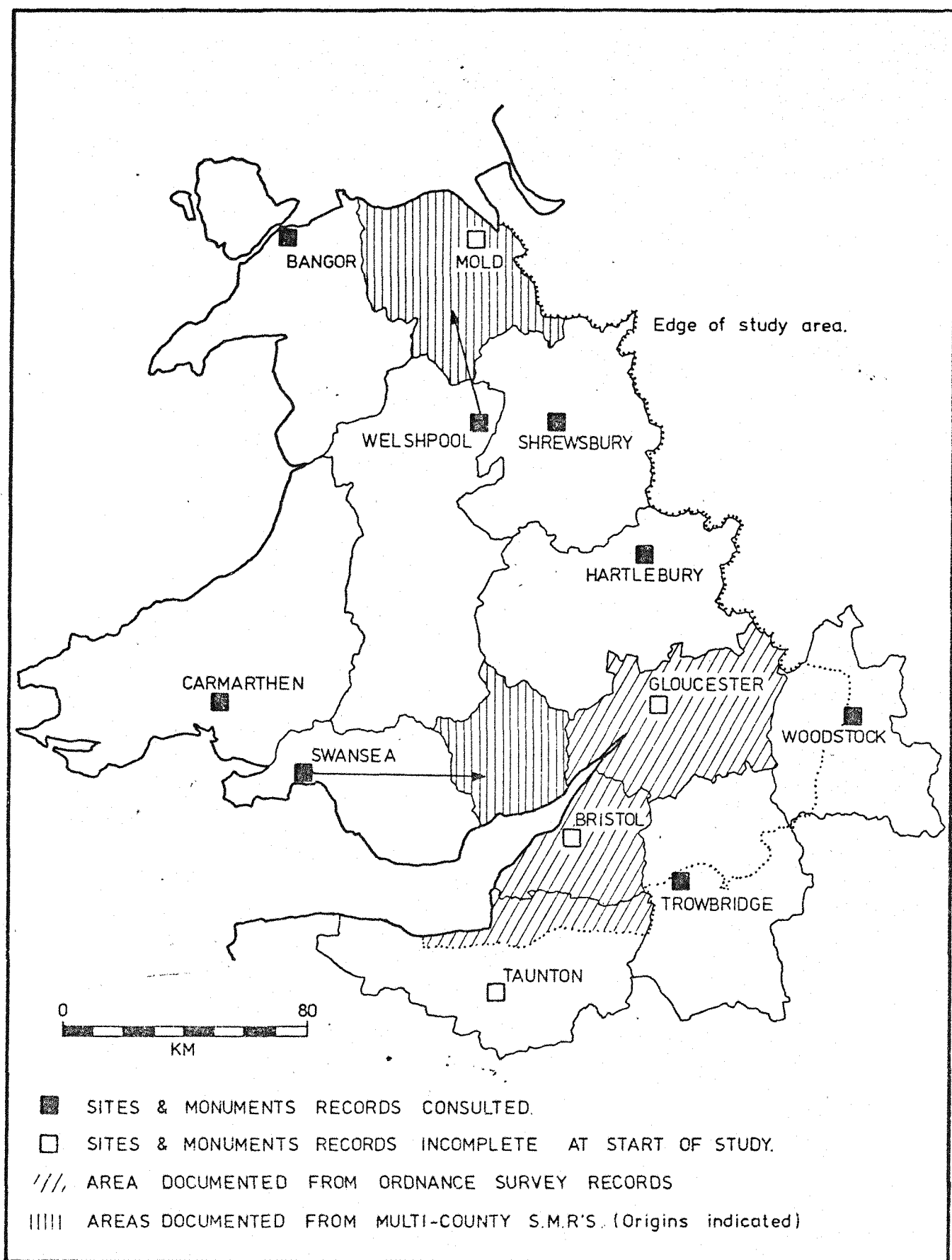


FIGURE 14. Location of county sites and monuments records and the origin of documentation used for each county in the study area.

SITE RECORD.									
1. Location.		Site name :							
NGR. : /		Parish :							
County :		Country :							
2. Type of site.									
T O M B S		E.L.B. Chambered tomb. Portal Dolmen. Cist tomb.							
S E E T T		Enclosed. Unenclosed. Pit / debris.							
		Causewayed enclosure.							
C E R E M O N		Henge. Stone circle Cursus. Long Mound.							
		Extraction activity.							
O T H E R		Burial. Stray Find. Flint scatter.							
3. Finds.									
Pottery	Stone	Flint	Metal	Bone	Wood				
G / LH.	Axe	Axe	Copper	Animal					
S.E.D.	Disc	A / H	Bronze	Human					
Hembury	Rubber	Scraper	Tool	Tool					
Ebbsflet	Quern	Point	Orna't.	Orna't.	Environ.				
Mort.	Bowl	Rod	Fragm't.	Other.	Seeds				
Pengate	Lamp	Cores	Other		Pollen				
G / Wa.	Fig.	Debris			Snails				
Beaker	Perf.I.	Other	Shell.						
Unident.	non-Lo.								
Other	Other								
4. Chronology.									
Multi-phase site.									
C 14 dates.									
Other dates.									
5. References.									
6. Comments.									

FIGURE 15. Pro-forma data record card (reproduced slightly larger than actual size).

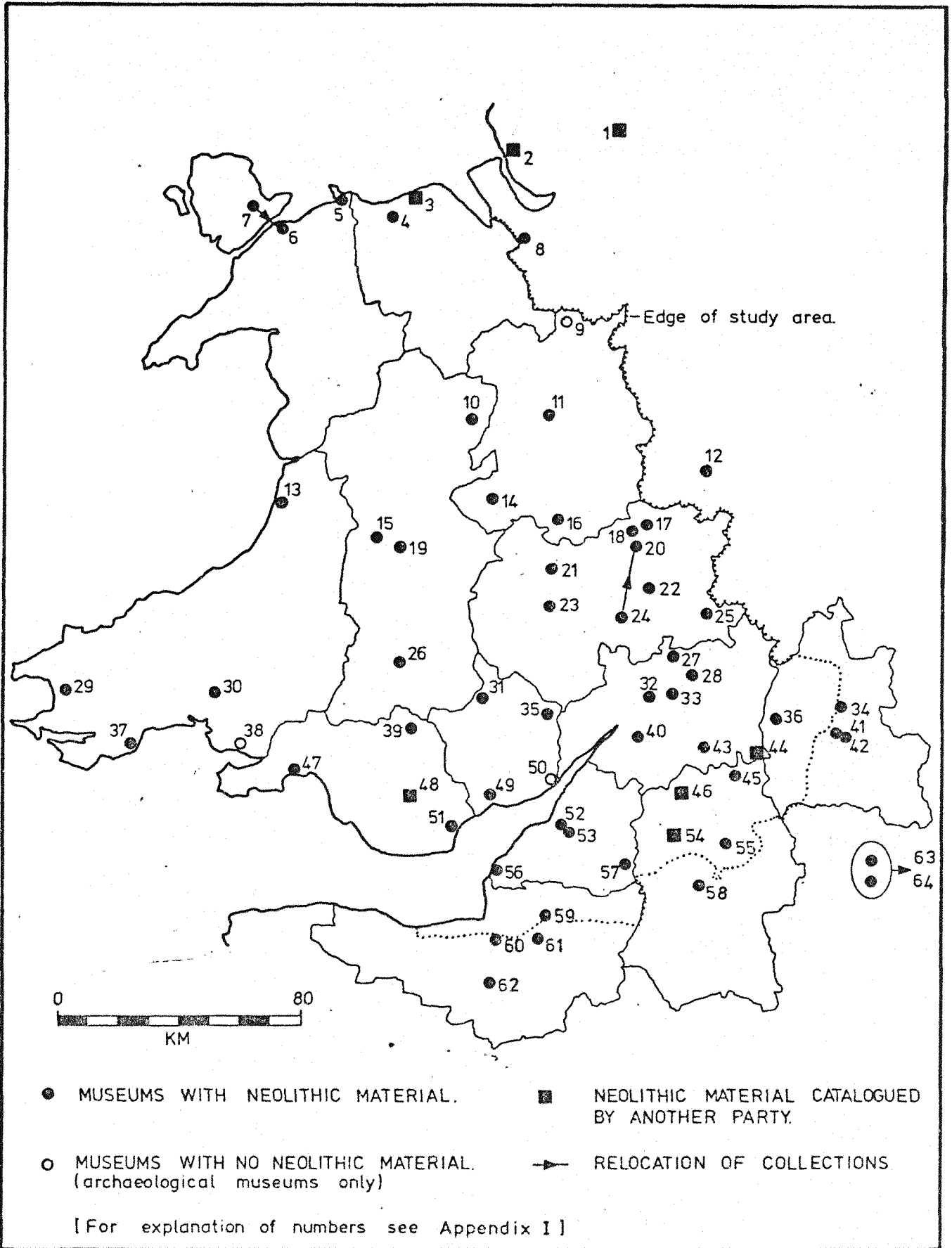


FIGURE 16. Distribution of museums within and around the study area, those visited shown as solid dots.

NEOLITHIC FLINTWORK RECORDING SHEET.

SITE:

Phase of phases.

Date of analysis: / /

FLINT TYPES.	NUMBER(frag)	%
Arrowheads : leaf.		
P.T.D.		
B & T		
Projectile points (large):		
Axes : polished.		
flaked.		
Adzes		
Scrapers: $\frac{1}{4}$ round		
$\frac{1}{4}$ round		
$\frac{1}{4}$ round		
discoid		
Scrapers Total		
Knives: flat edge r/t.		
blunted back		
flake		
plano-convex		
discoid		
pointed		
Knives Total		
Serrated blades		
Sickles : pieces		
single piece		
glossed frags*		
Sickles Total.		
Points / Awls		
Spurred implements		
Fabricators		
Knotched blades		
Fish throttles		
Retouched blades		
Other.		
TOTAL TOOLS :		
Unretouched blades		
Flakes		
Cores		
Nodules / pebbles		
TOTAL NON-TOOL FLINT:		

FIGURE 17. Pro-forma flintwork recording sheet (reproduced slightly smaller than originals).

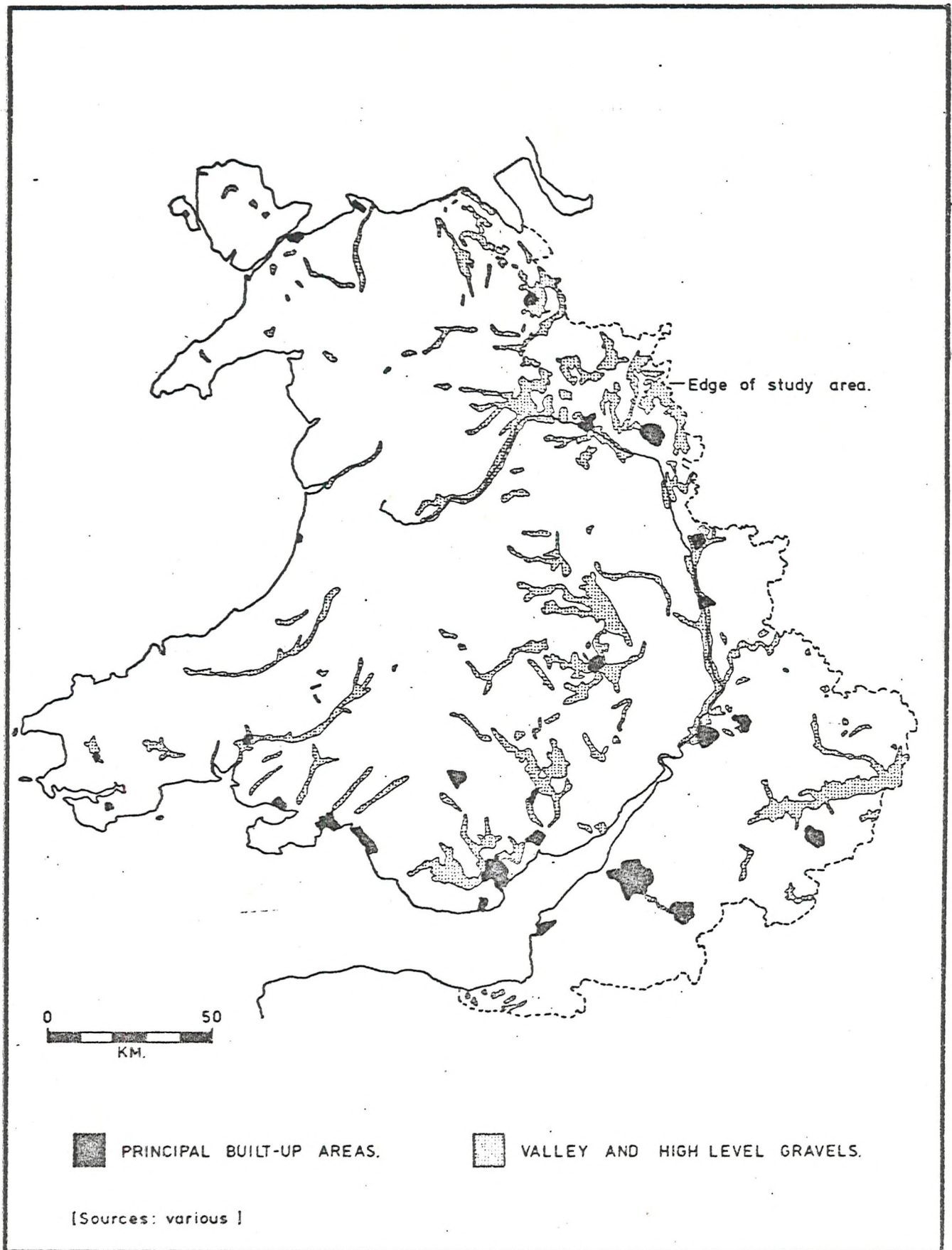


FIGURE 19. Distribution of built-up areas and gravel spreads.

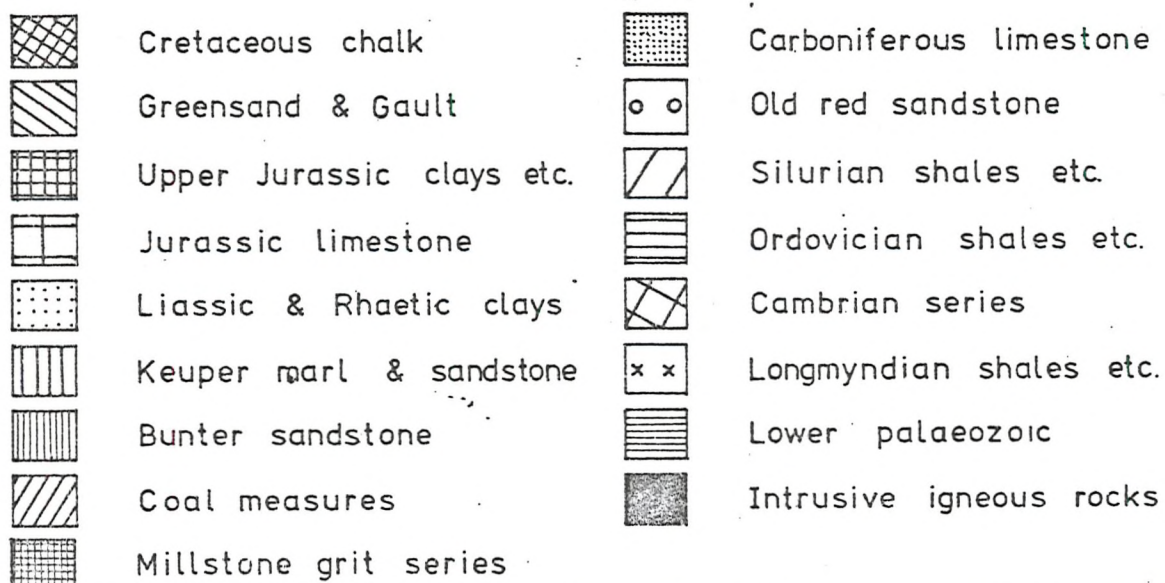
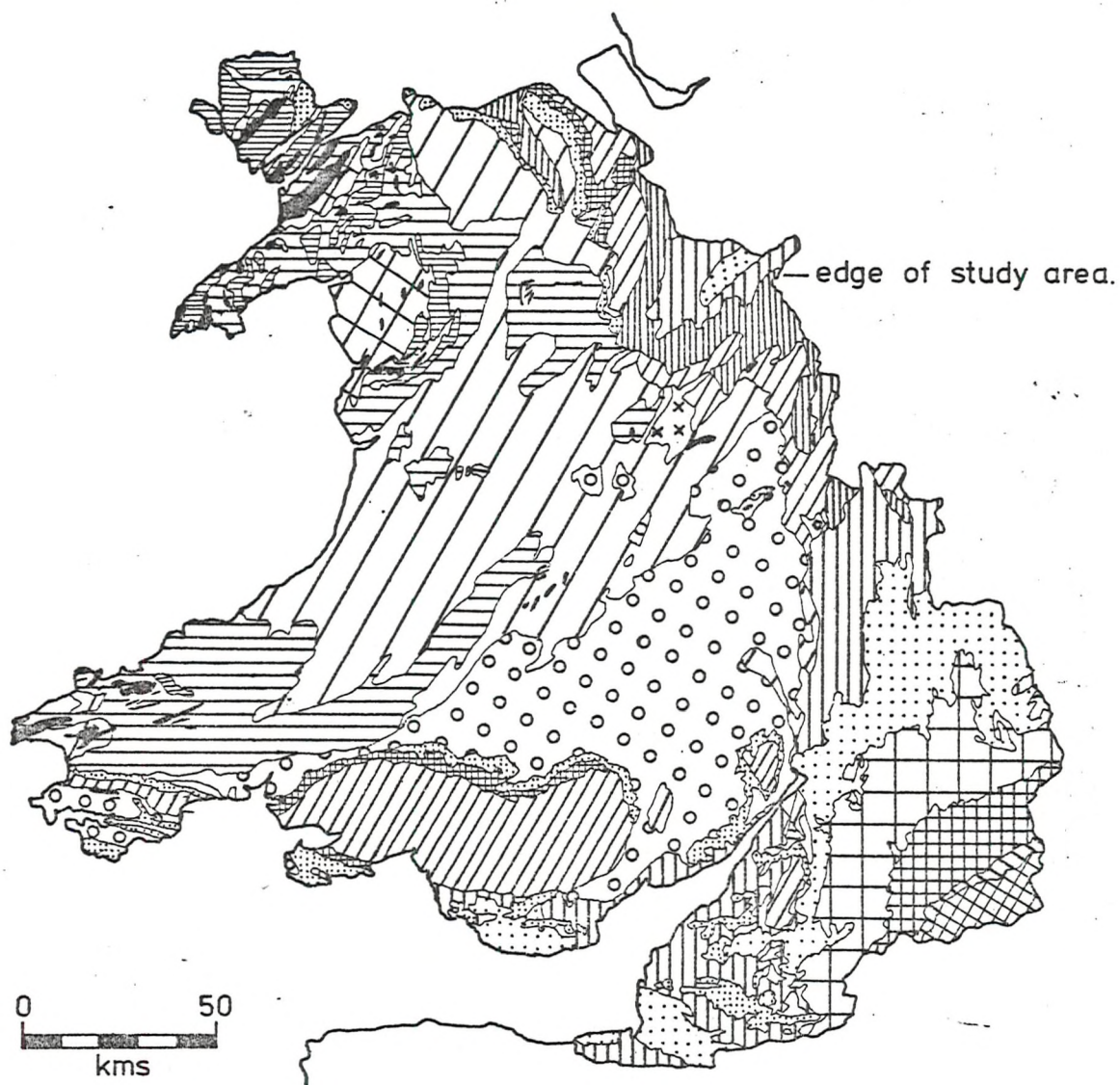


FIGURE 20. Simplified geological map of the study area. (Sources: various)

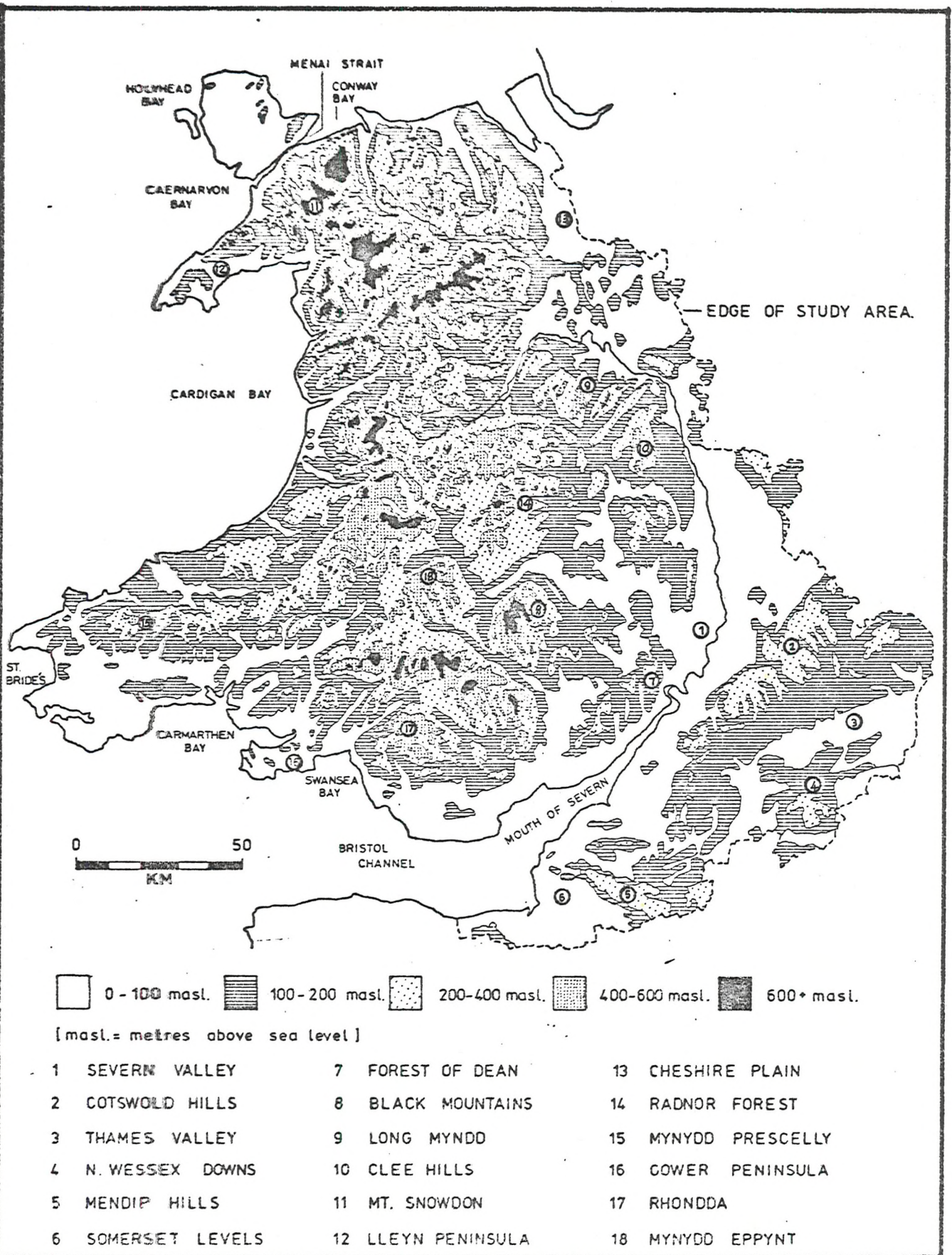


FIGURE 21. Topography of the study area. (Sources: various)

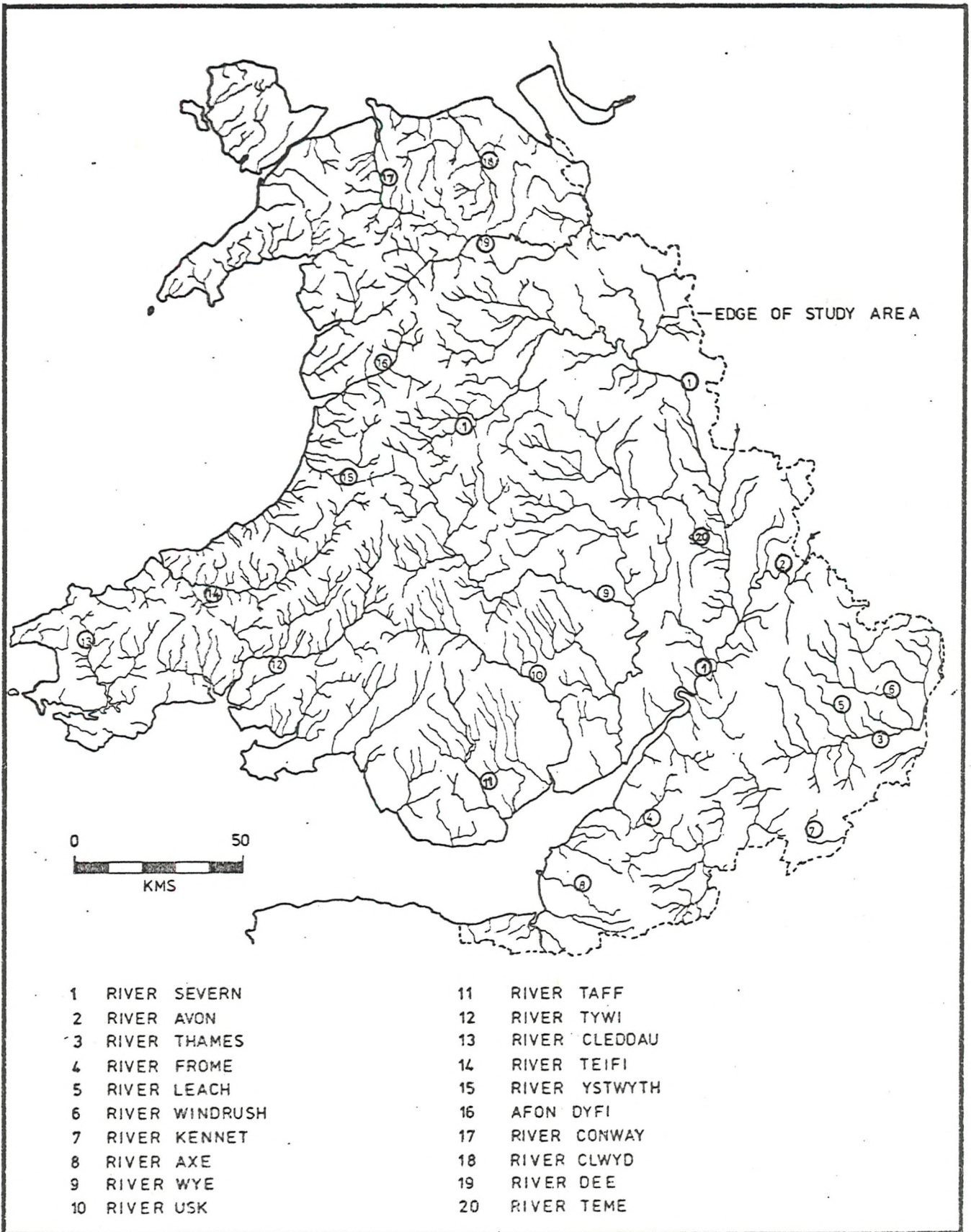


FIGURE 22. Hydrology of the study area.

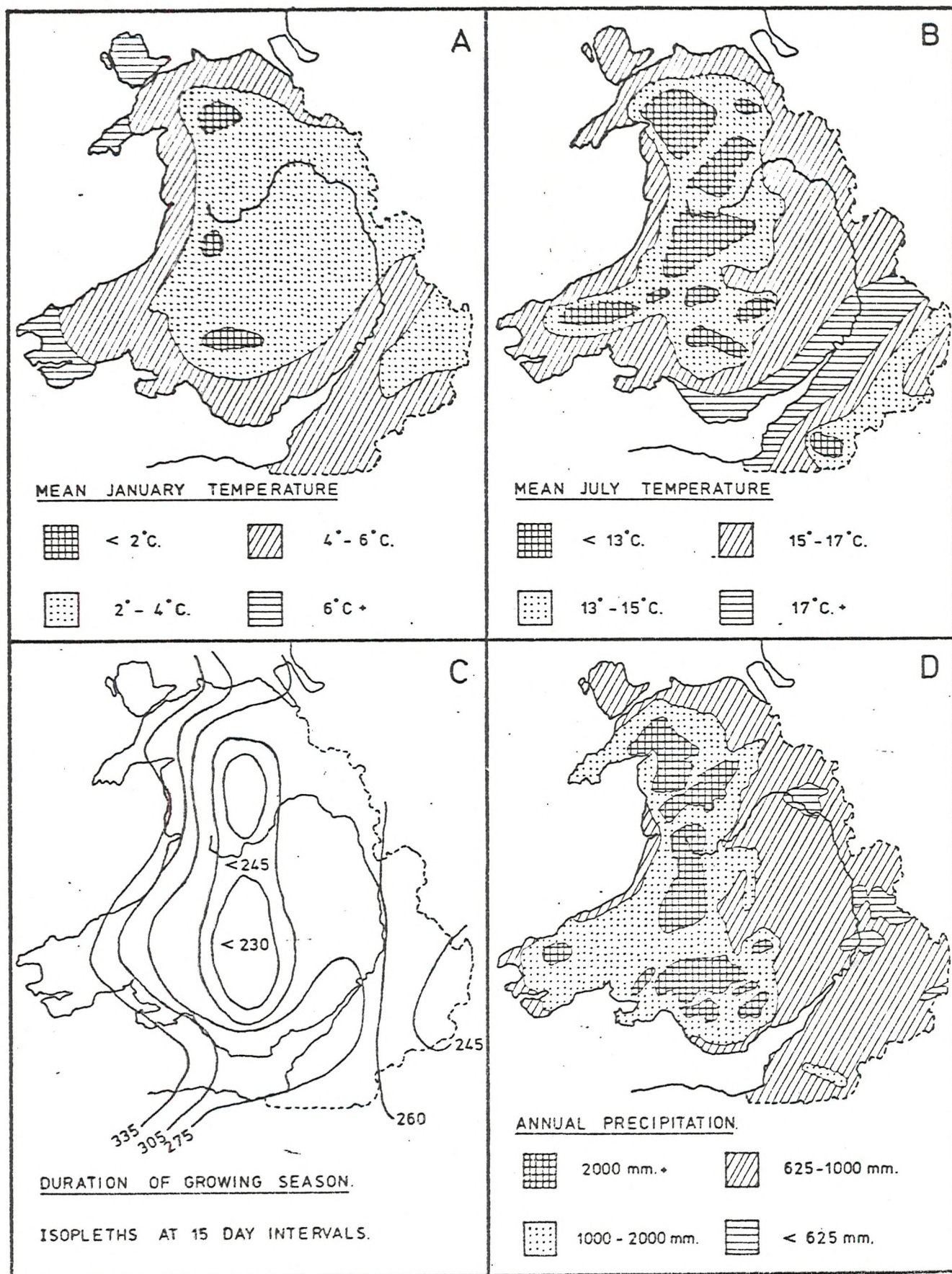


FIGURE 23. Simplified climatic maps of the study area. (Sources: various)

- ① Ecozone 1 = Downland plains.
- ② Ecozone 2 = Hill and vale country.
- ③ Ecozone 3 = Uplands and coastal plain.

[NOTE: ECOZONE BOUNDARY LINES ONLY APPROXIMATE]

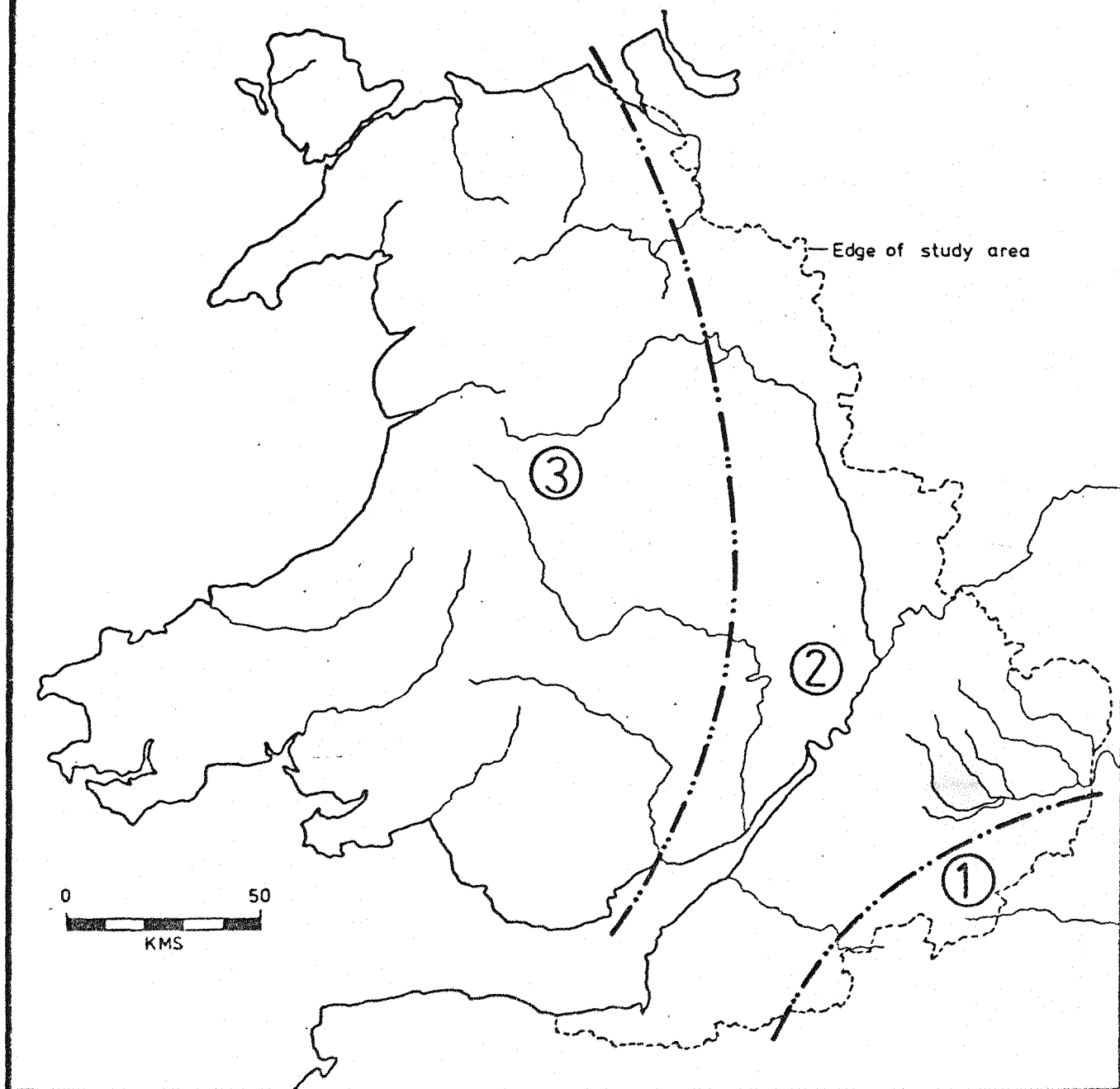


FIGURE 24. Summary of ecozone divisions within the study area.

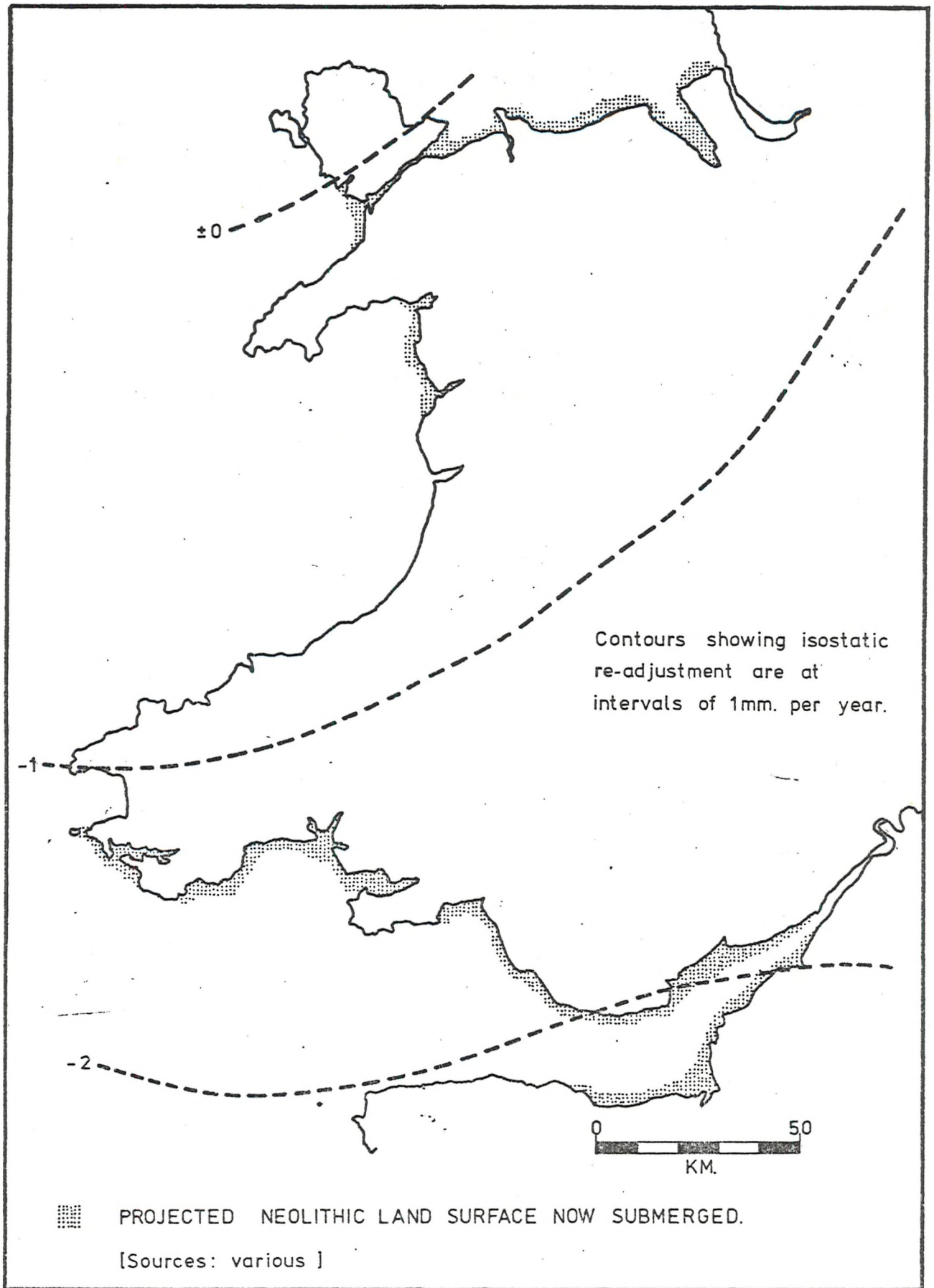


FIGURE 25. Projected neolithic land surfaces now submerged, and isostatic re-adjustment rates.

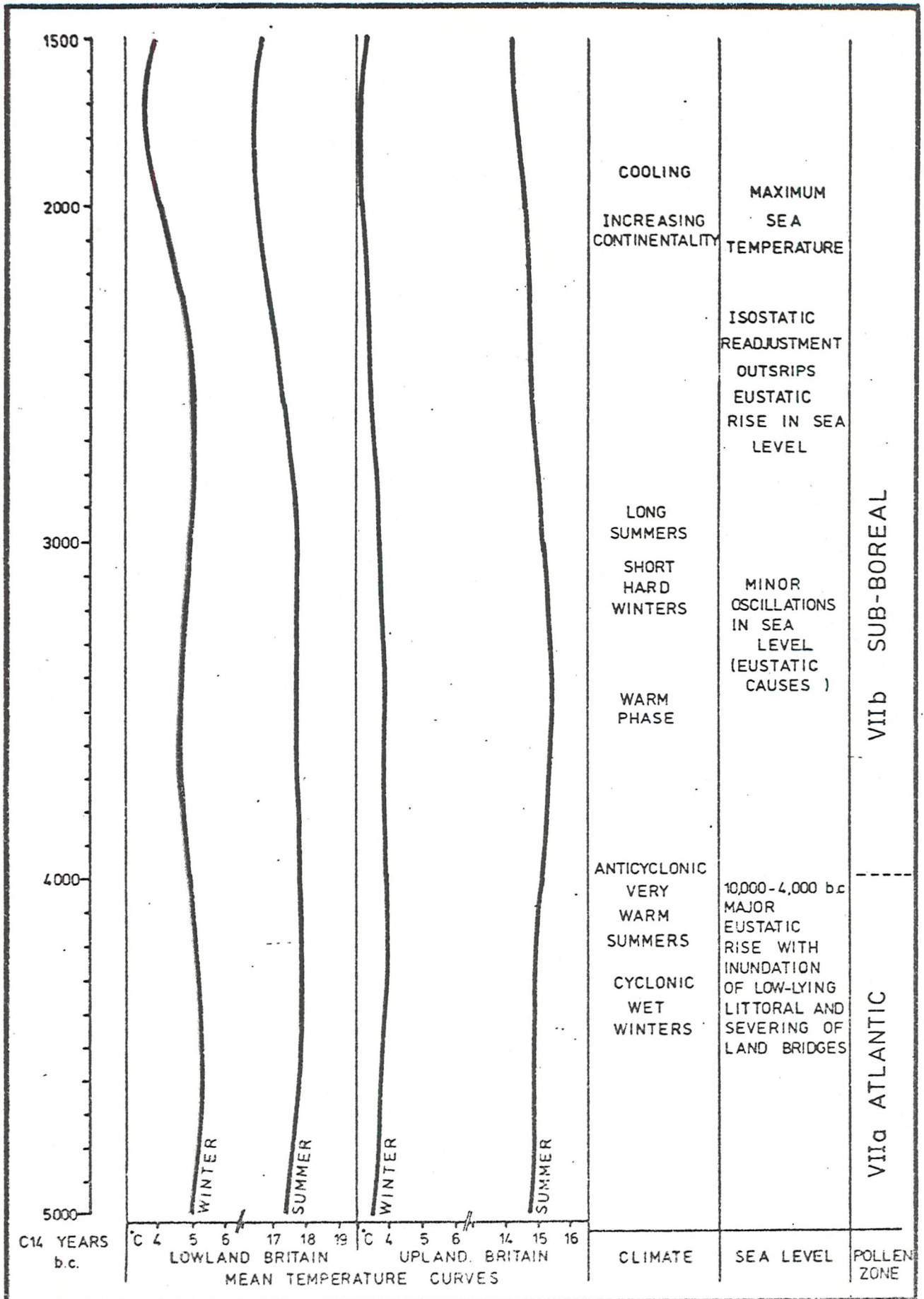


FIGURE 26. Summary of climatic and sea level changes through the neolithic (after Taylor 1975, figs. 3 and 5).

BRISTLECONE PINE CALIBRATION CURVES.

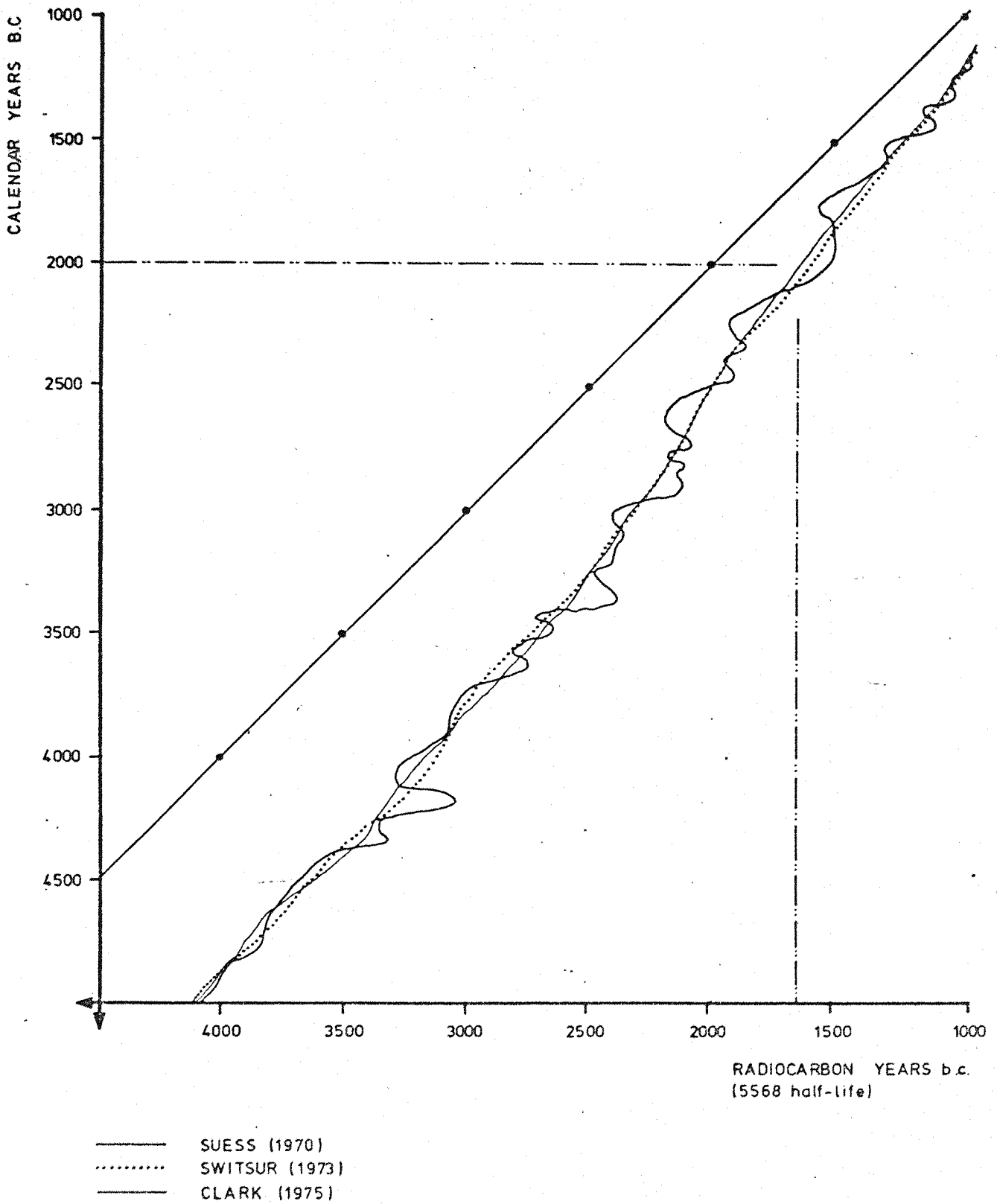


FIGURE 27. Bristlecone pine calibration curves.

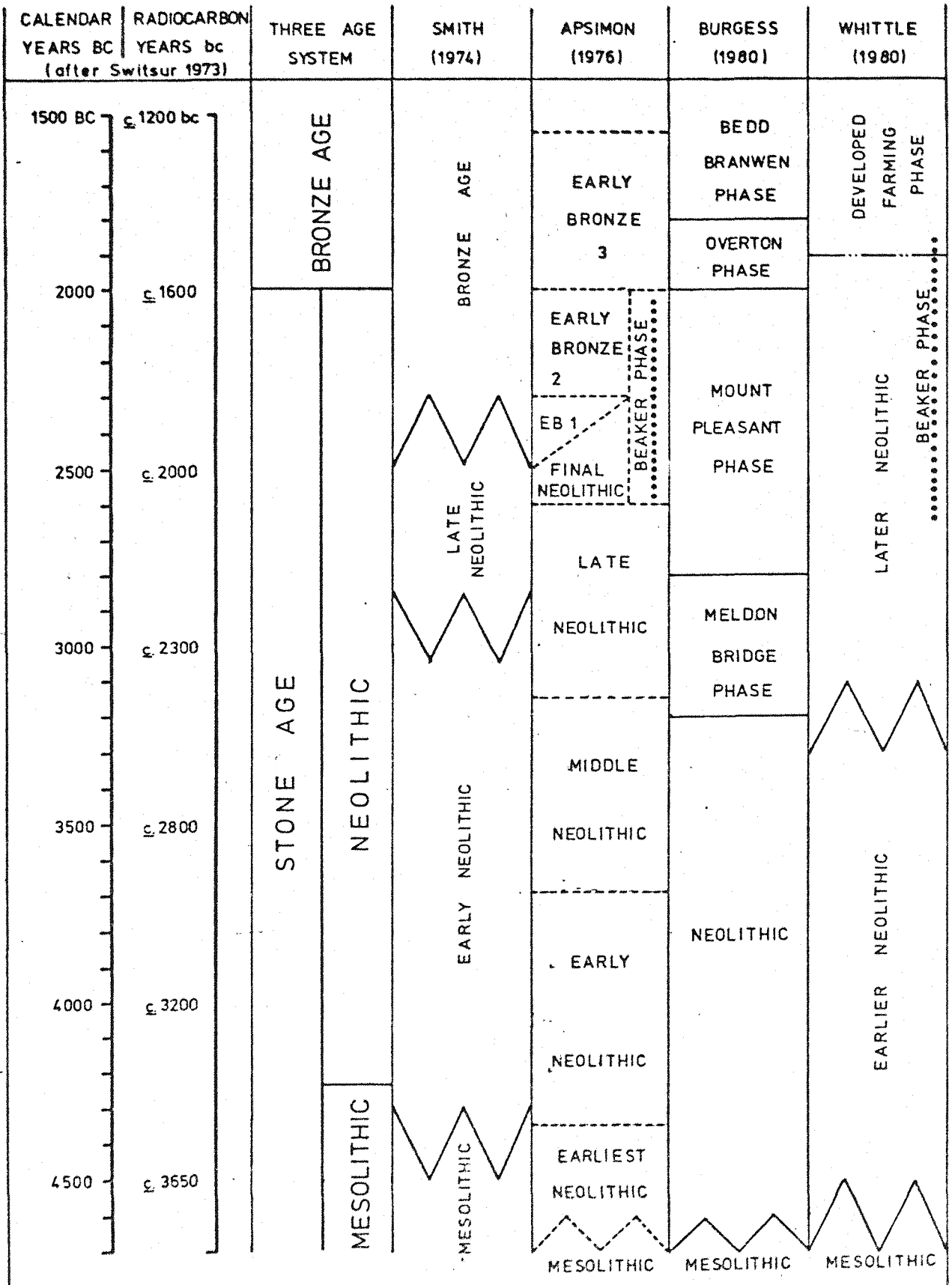


FIGURE 28. Summary of recently proposed chronological schemes for the British neolithic.

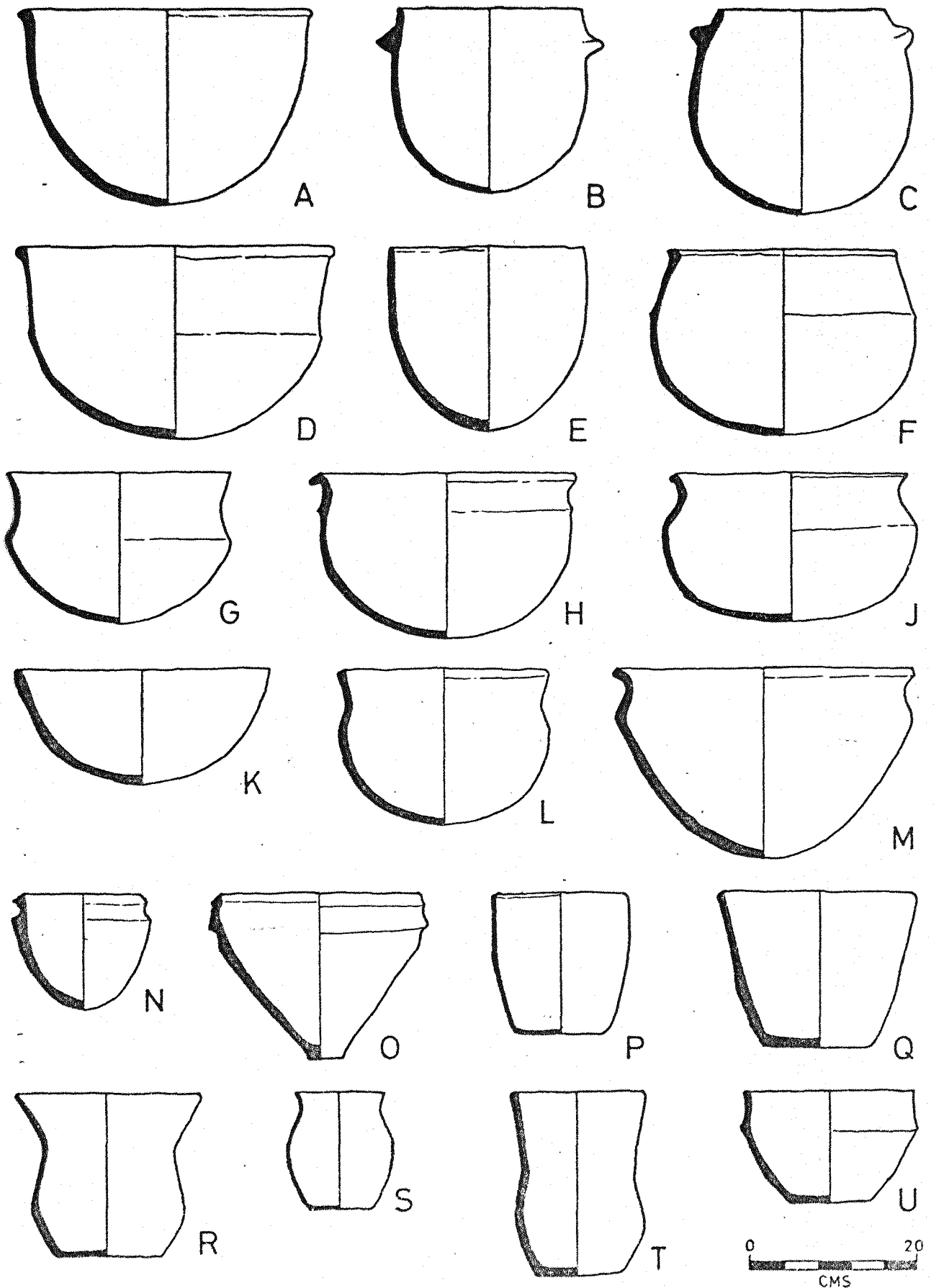


FIGURE 29. Outline drawings of main neolithic pottery types.

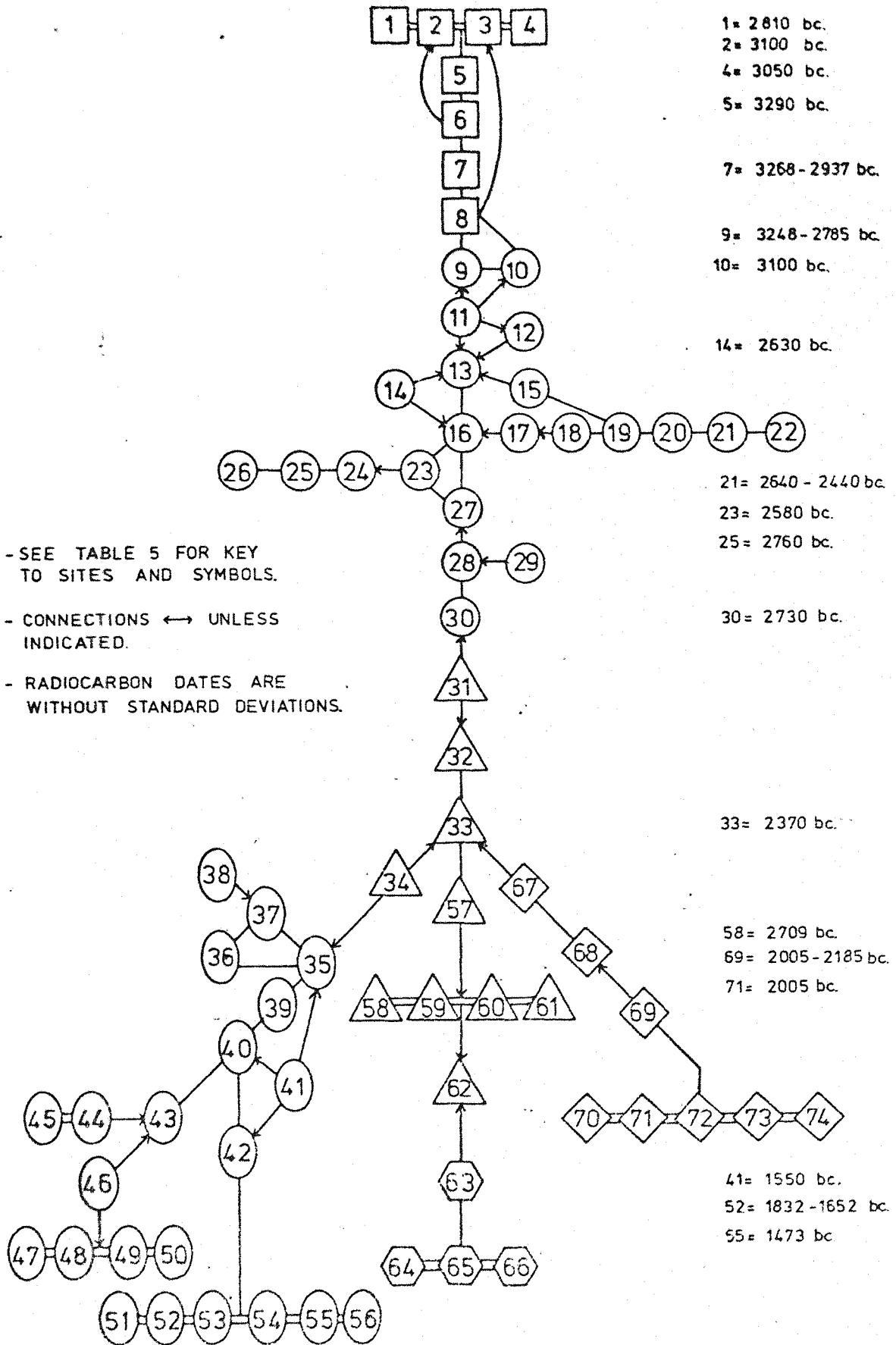


FIGURE 30. Close proximity analysis of neolithic ceramic assemblages.

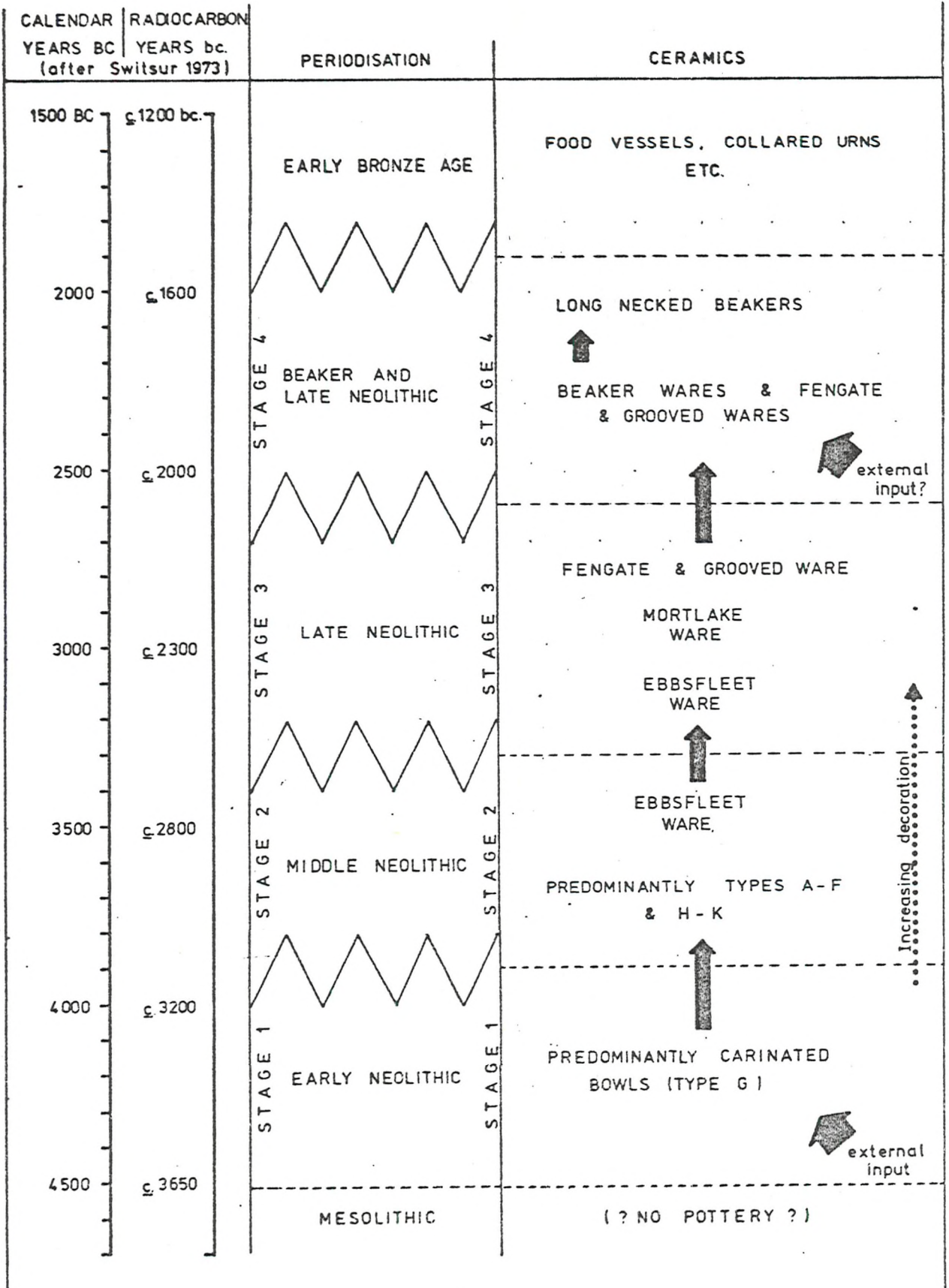


FIGURE 31. Provisional chronological framework for the neolithic period.

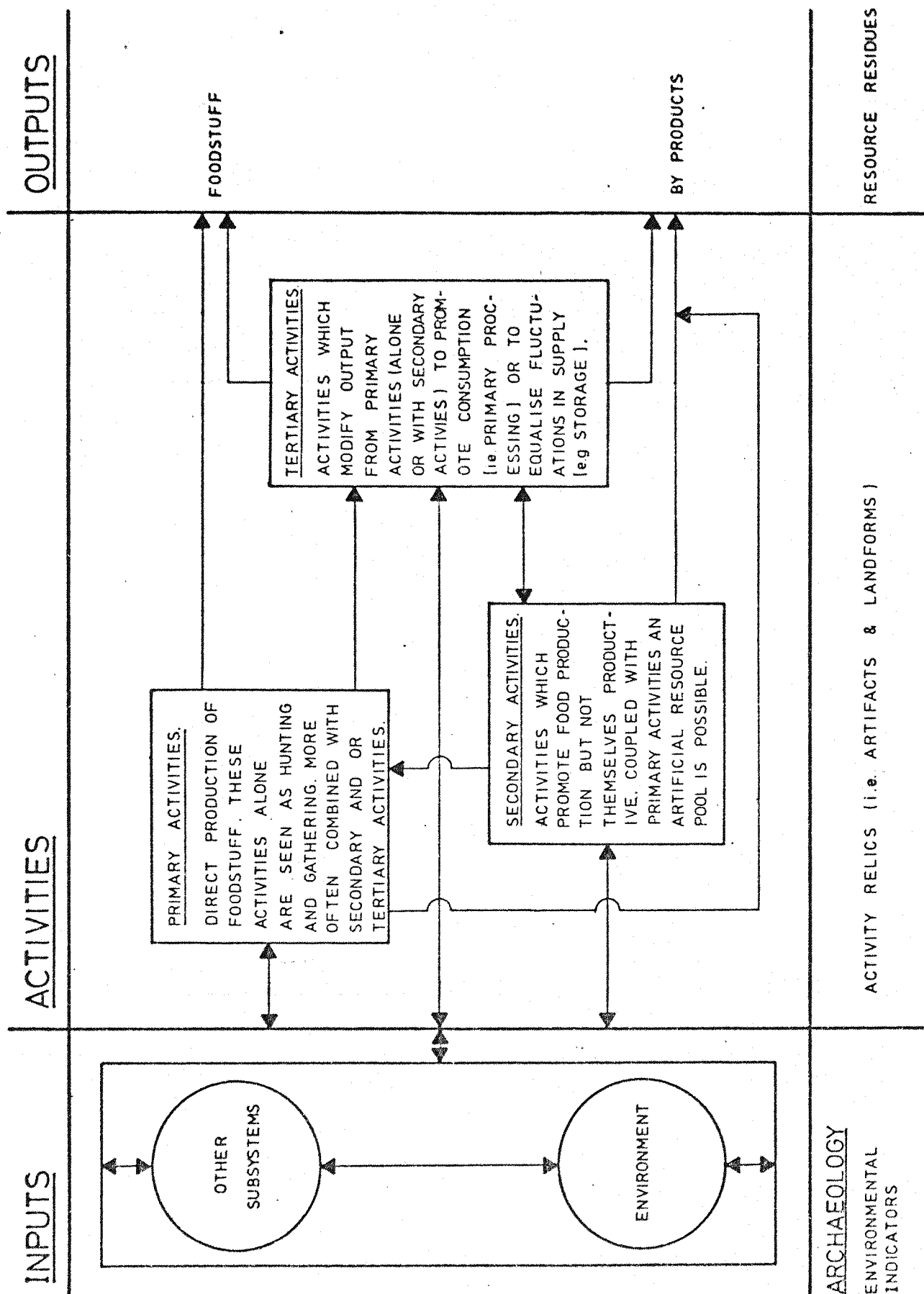


FIGURE 32. Schematic representation of the internal structure of the subsistence subsystem.

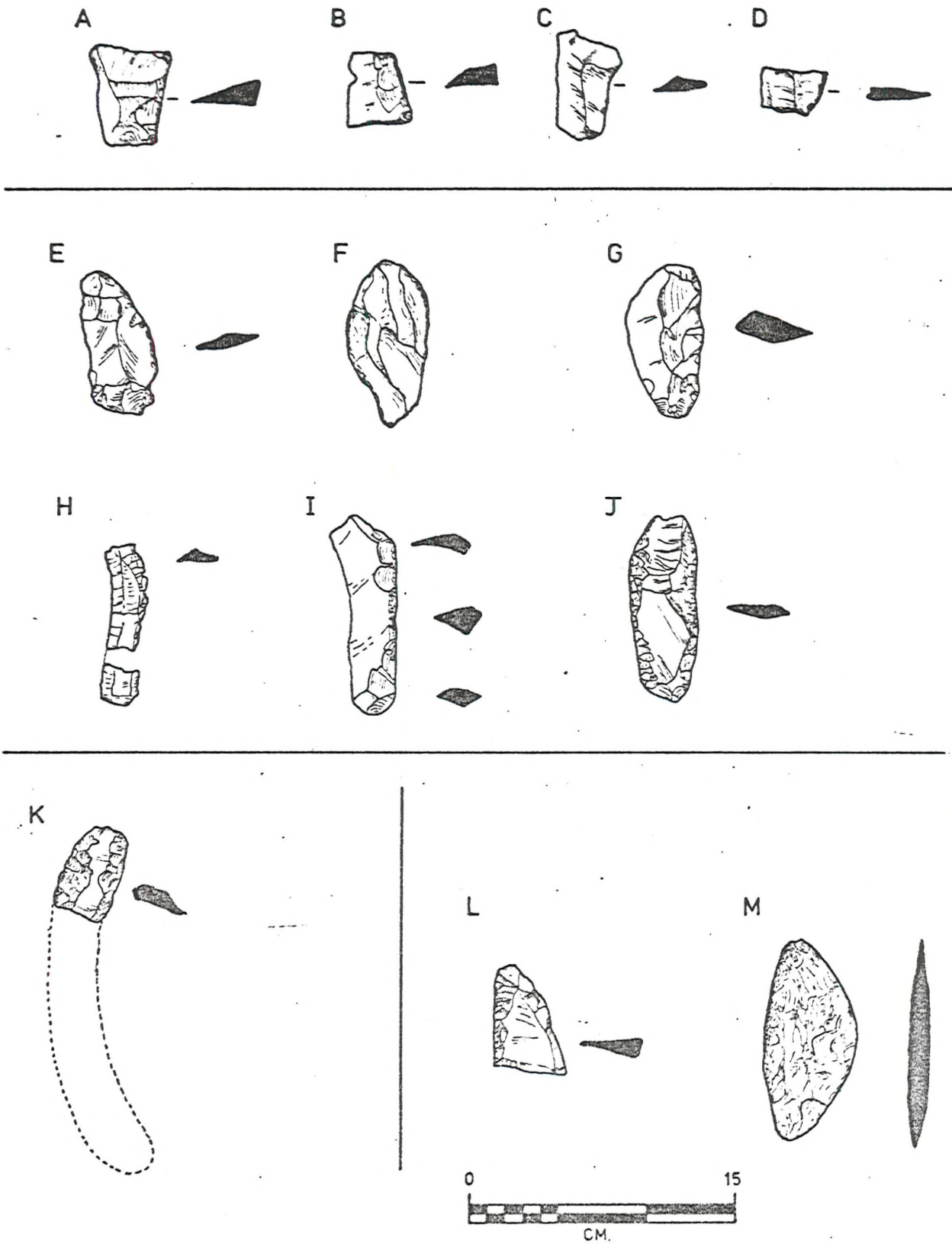


FIGURE 33. Typology of flint sickle blades. (See page 67 for key to lettering).

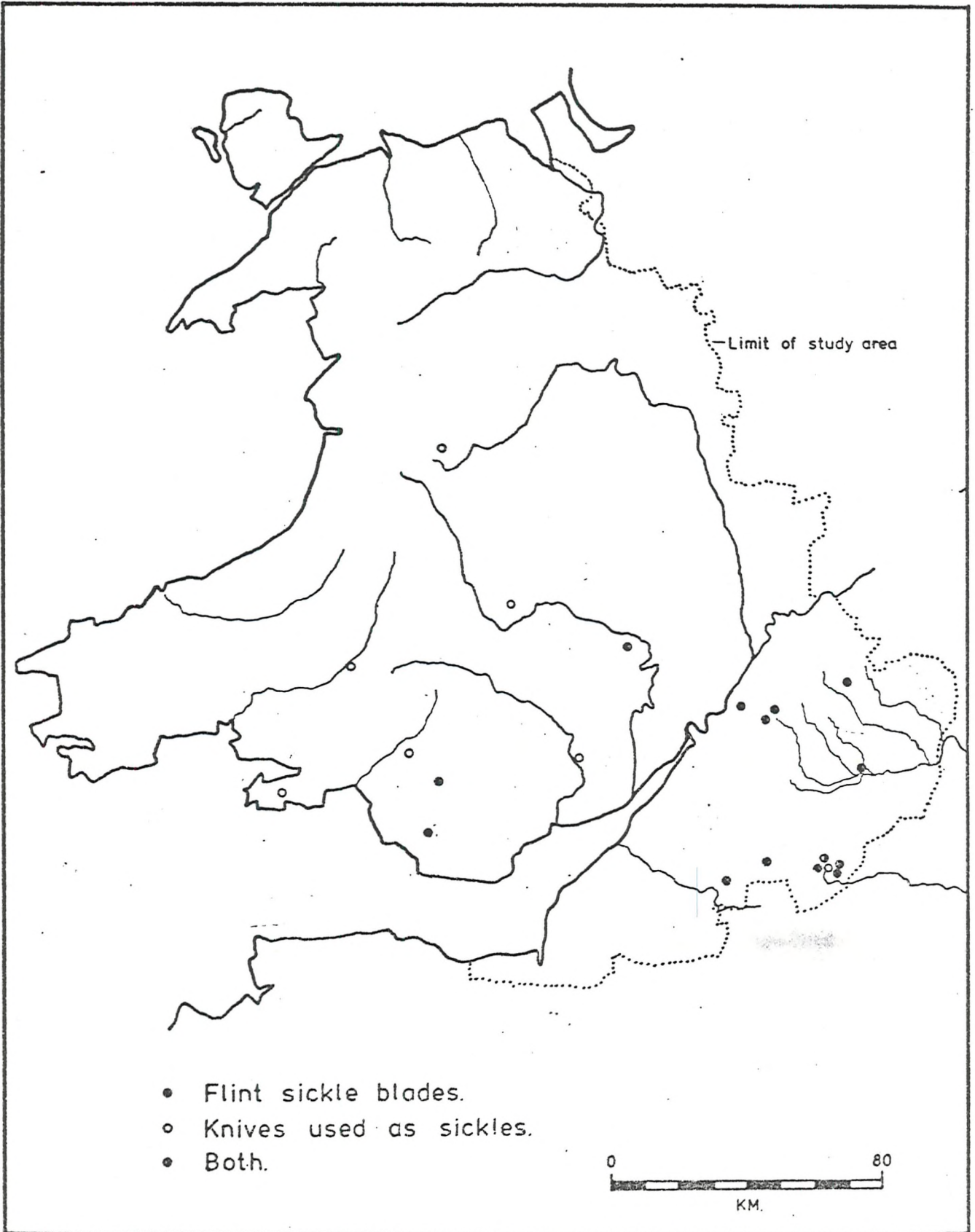


FIGURE 34. Distribution of flint sickle blades.

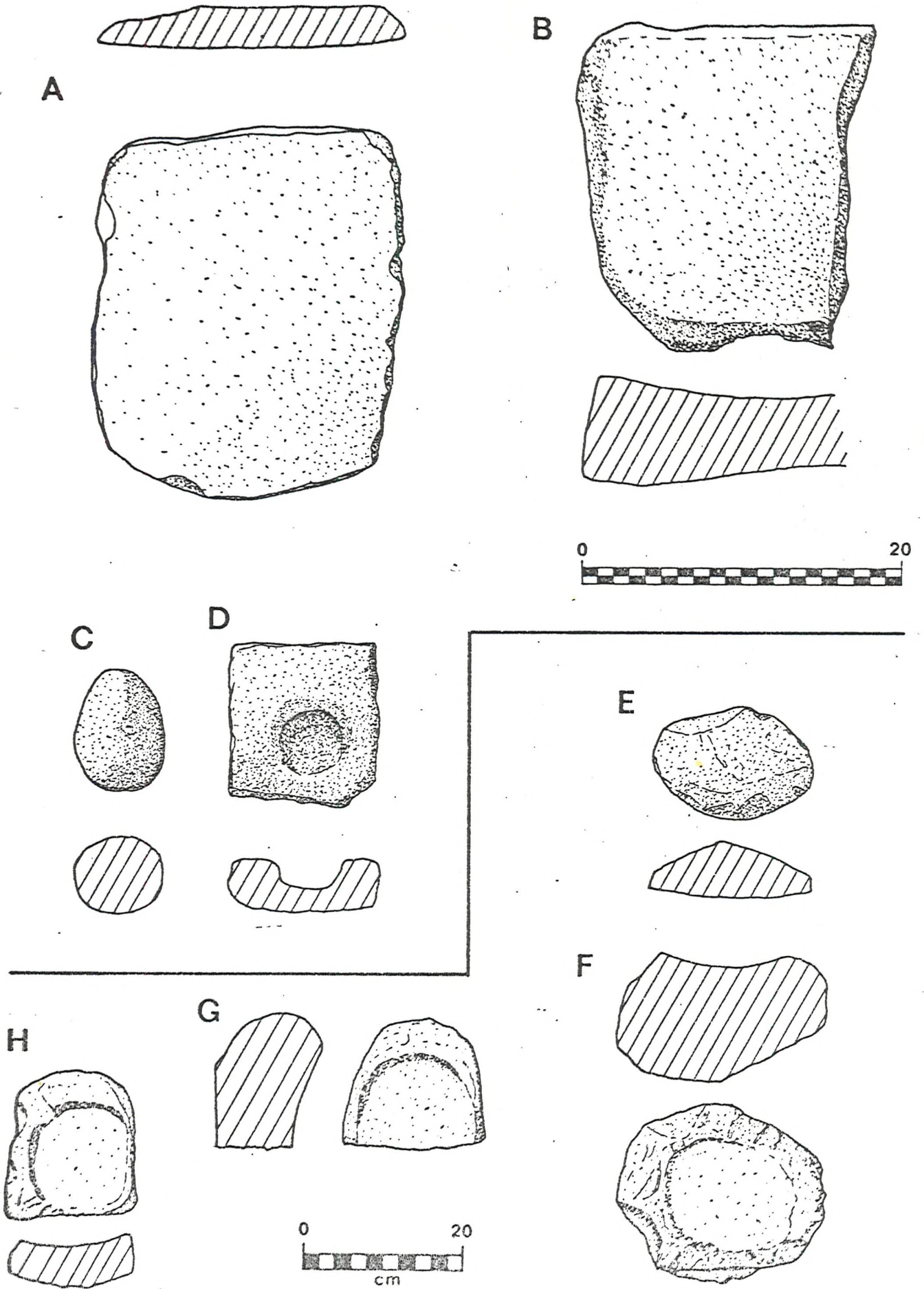


FIGURE 35. Quern and rubber types. (See page 71 for key to lettering).

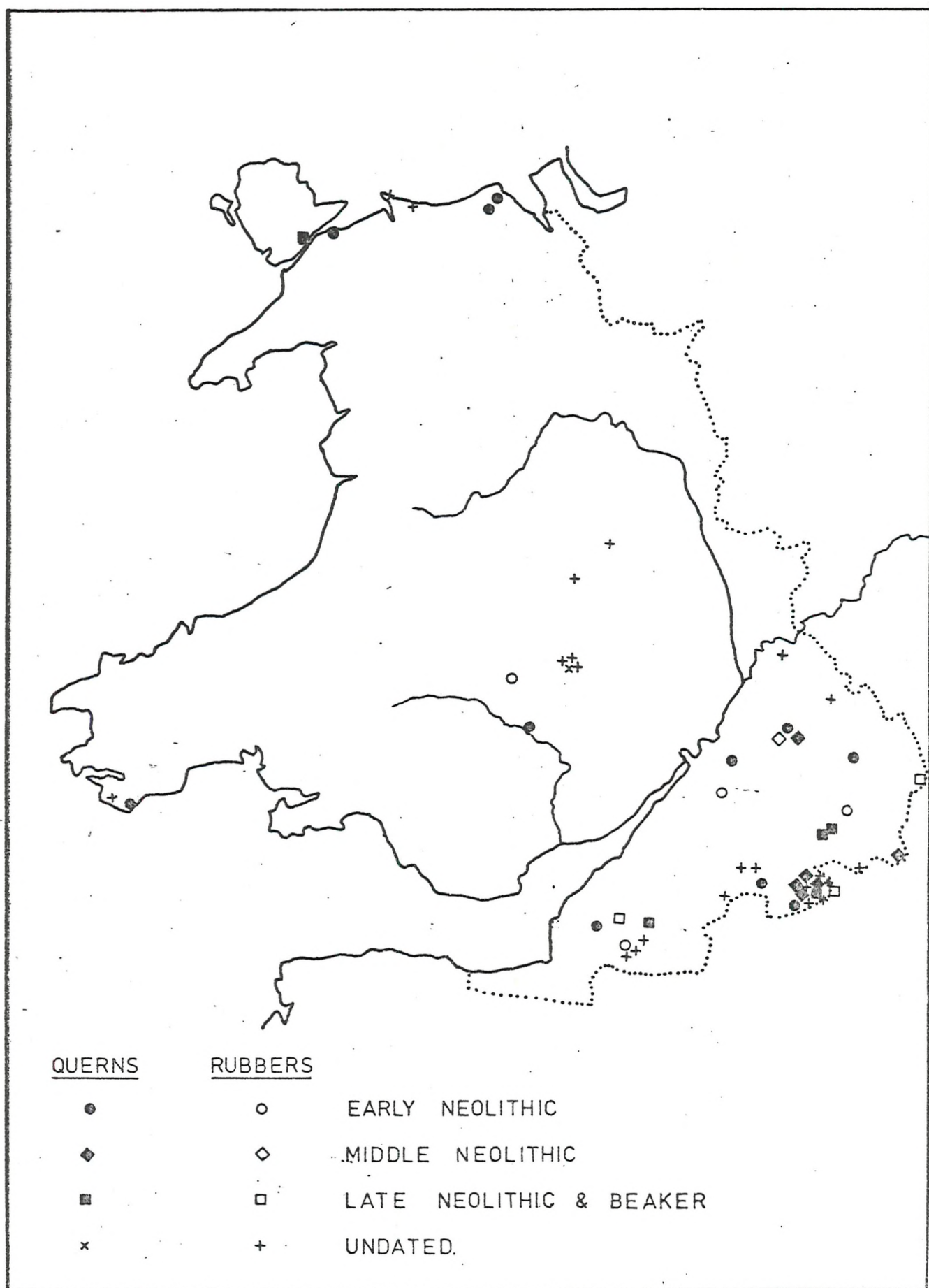


FIGURE 36. Distribution of querns and rubbers.

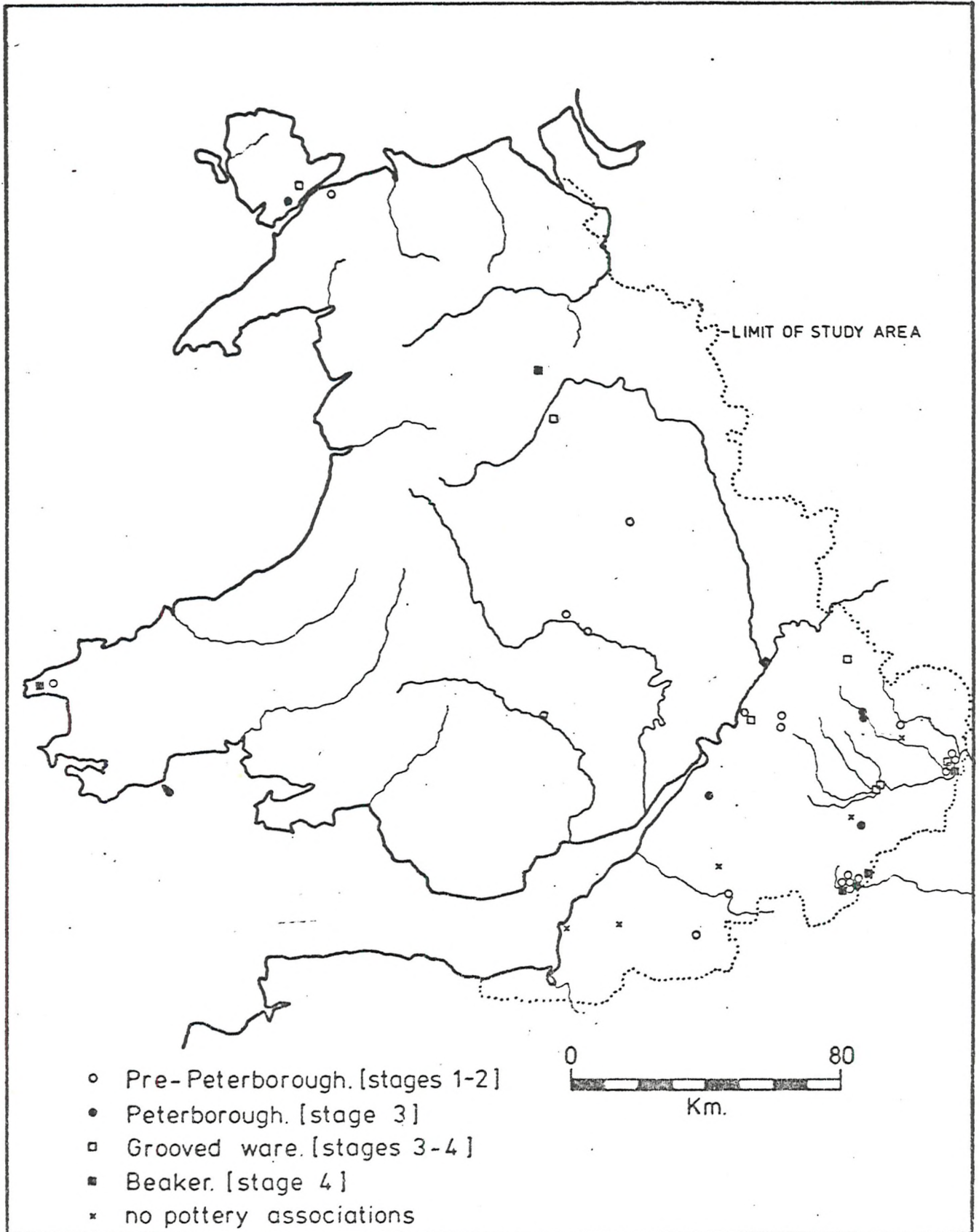
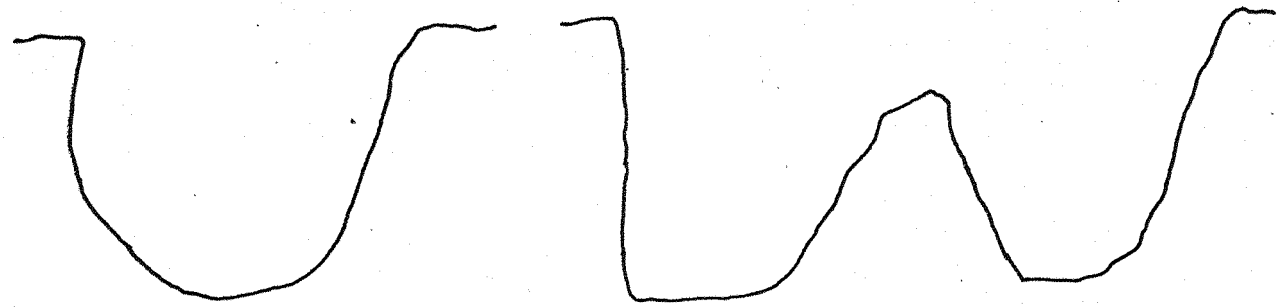


FIGURE 37. Distribution of recorded neolithic pits.

Windmill Hill, [WI 11].



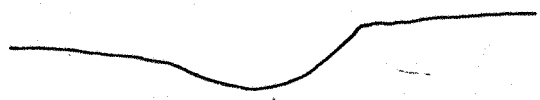
Bourton on the Water, [GLE 199]



Salmonsbury, [GLE 47]



Coygan Camp, [DY 158]



Charmy Down, [AV 111]

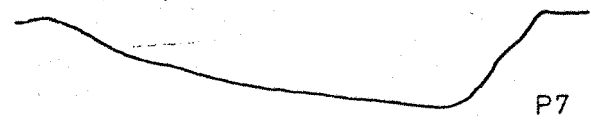


FIGURE 38. Specimen pit profiles.

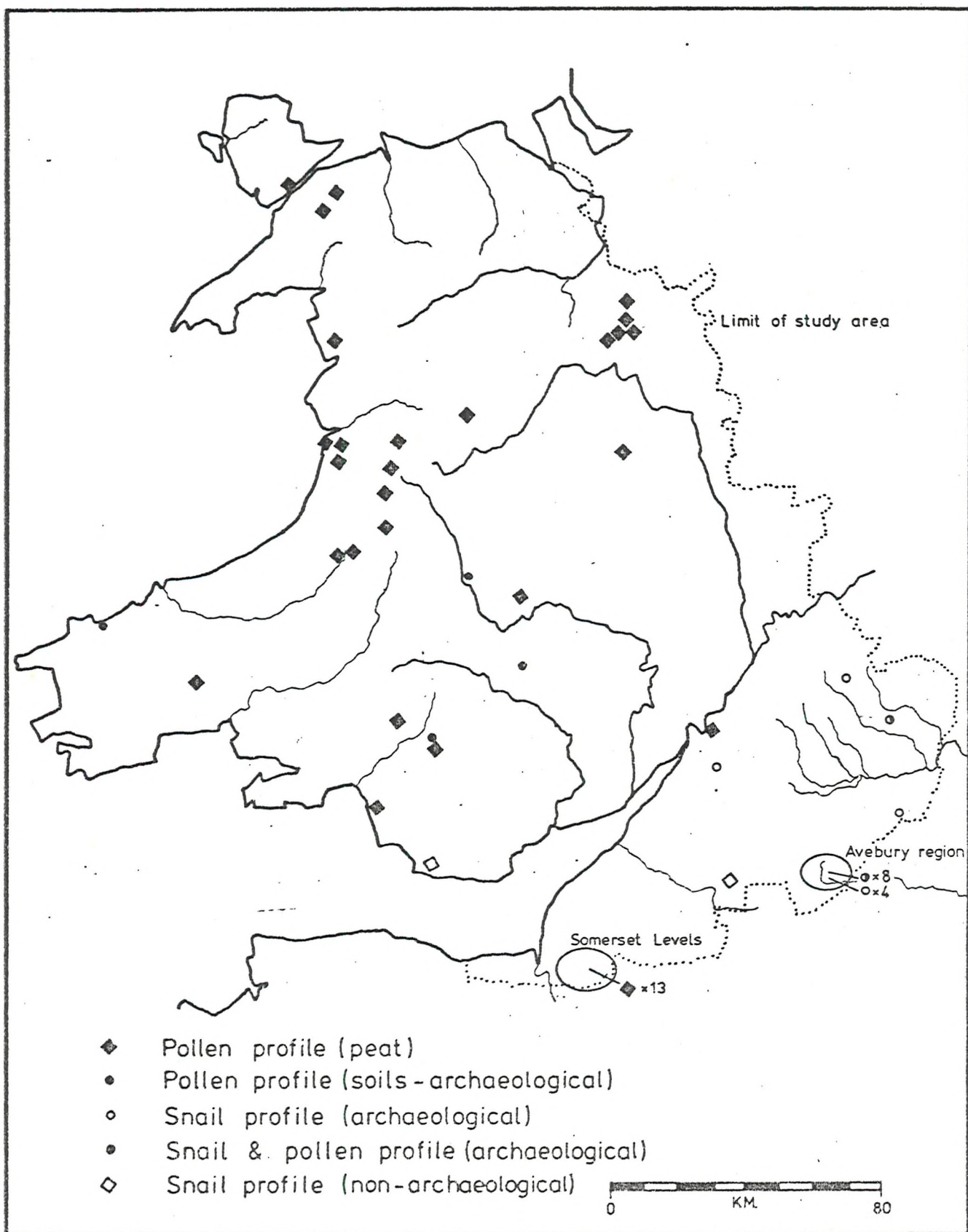


FIGURE 39. Location of available environmental sequences.

● PRIMARY CLEARING ■ SECONDARY CLEARING
x FIRST CEREAL POLLEN

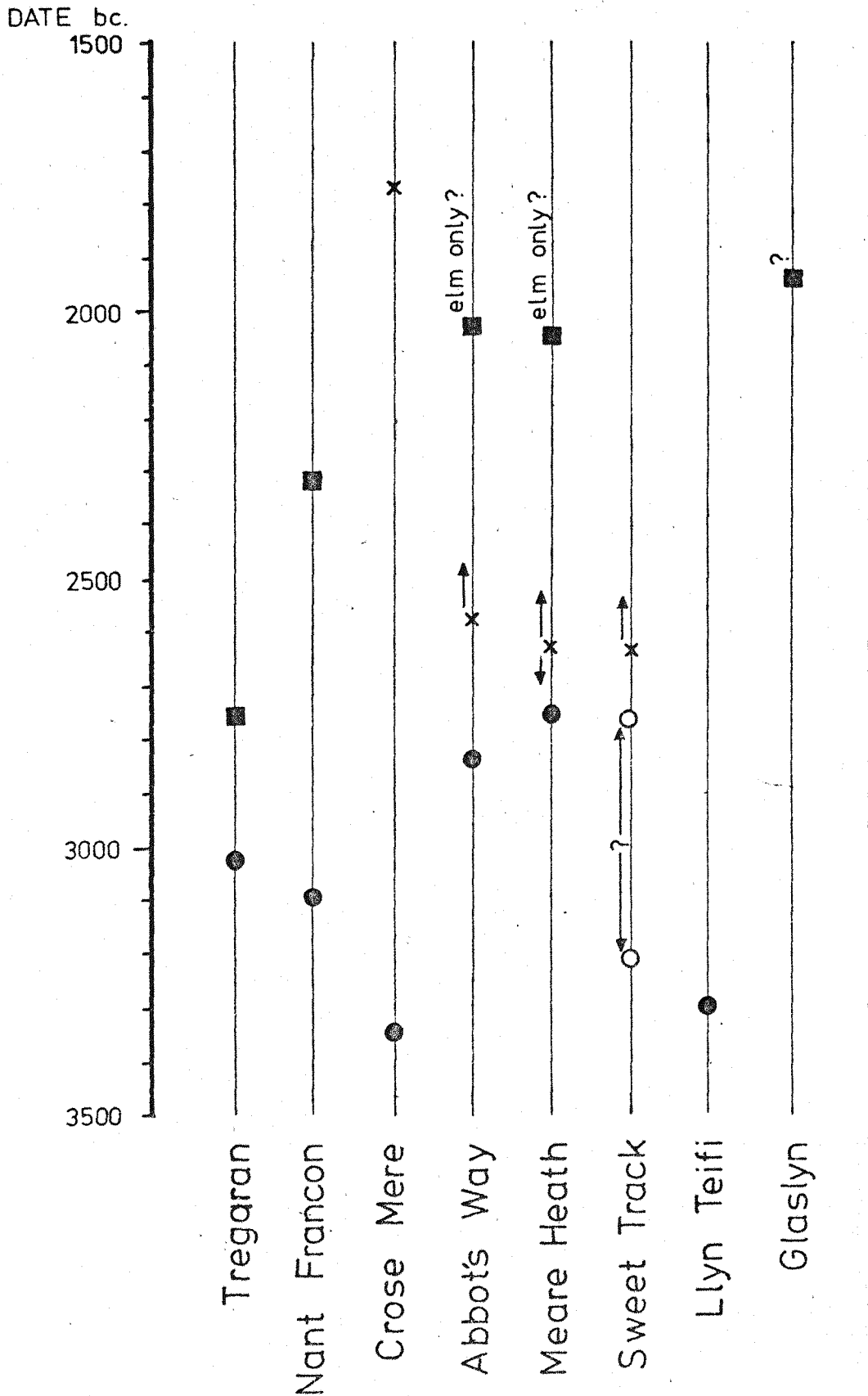


FIGURE 40. Plot of radiocarbon dated woodland clearances.

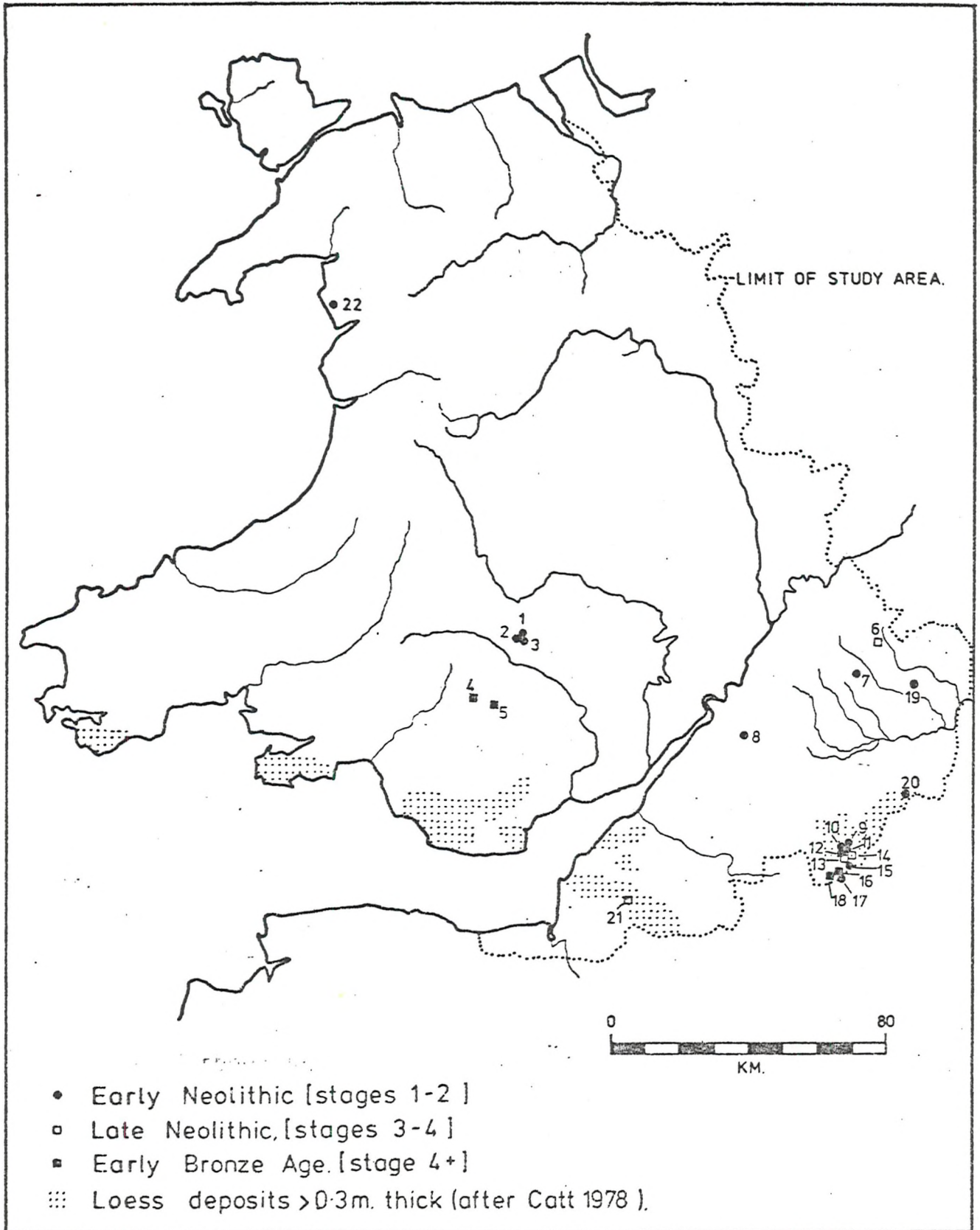


FIGURE 41. Distribution of studied soil profiles (see Appendix IV, schedule 6 for numbering).

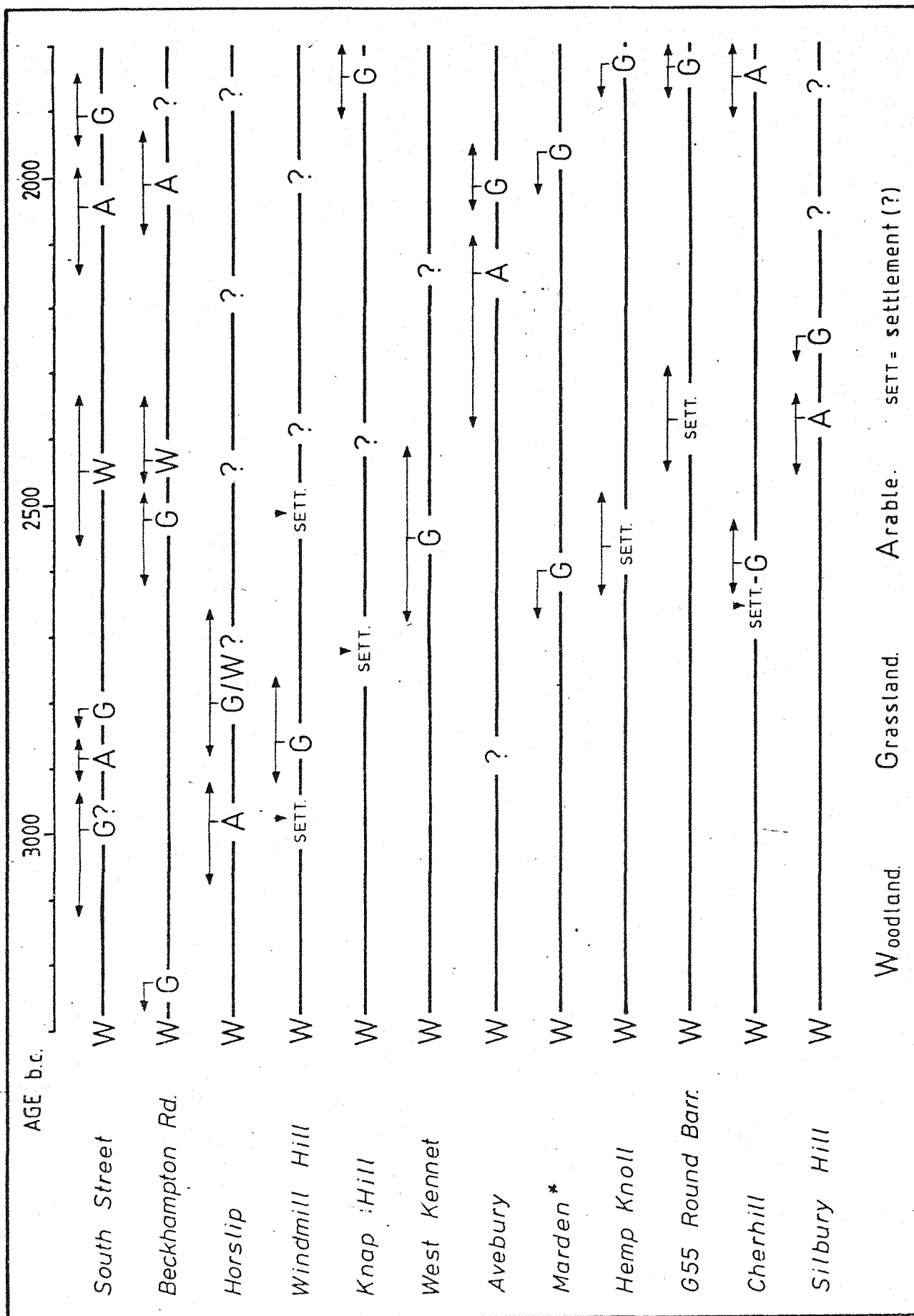


FIGURE 42. Summary of land use sequences at sites in the Avebury area.
(* Marden is outside the study area)

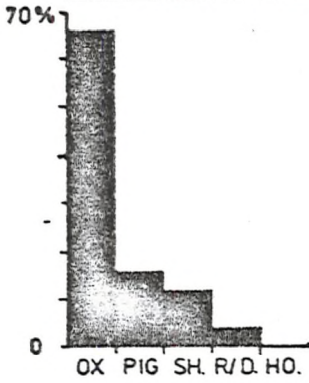
Early Neo.

Middle Neo.

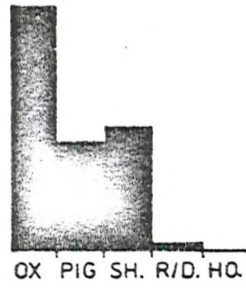
Late Neo.

Beaker.

WI 11 (pre-enclosure)



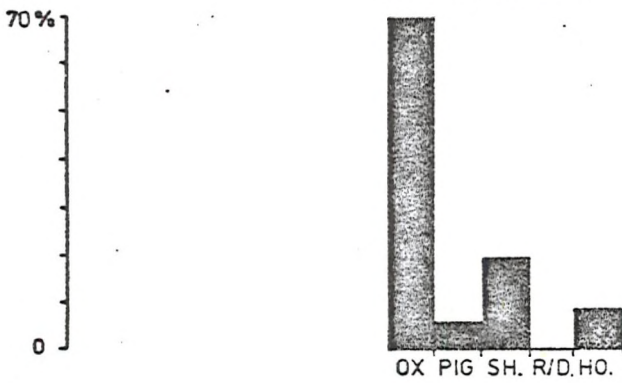
WI 11 (enclosure)



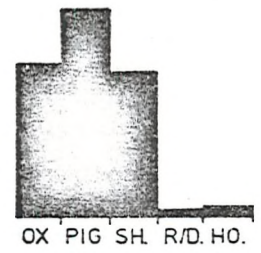
WI 11 (upper ditch)



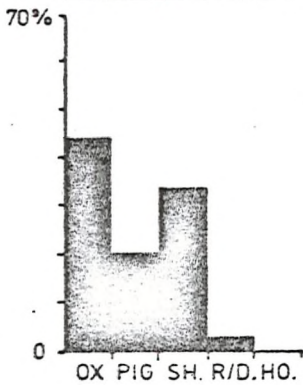
WI 23 (general*)



WI 23 (pits 1-9*)



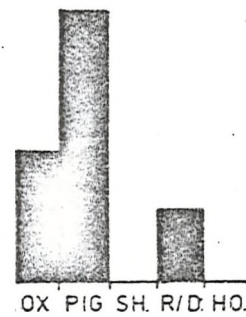
WI 17 (pre-barrow)



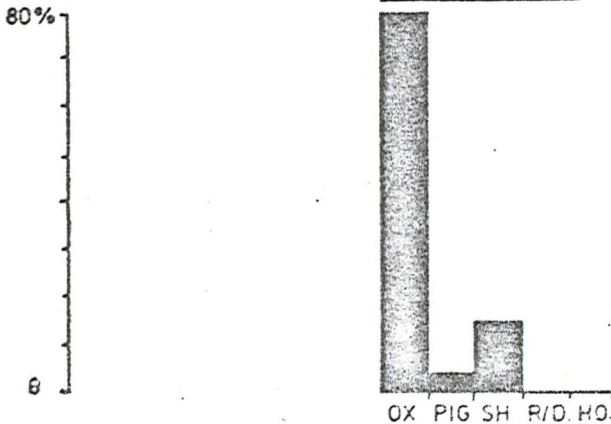
WI 74 (pits)



WI 20



WI 7 (ditch fill)



OX OX / CATTLE
 PIG PIG
 SH. SHEEP / GOAT
 R/D. RED DEER
 HO. HORSE
 * ?DISTURBED/
 MIXED

FIGURE 43. Animal bone frequencies at sites in ecozone 1.

Early Neo.

Middle Neo.

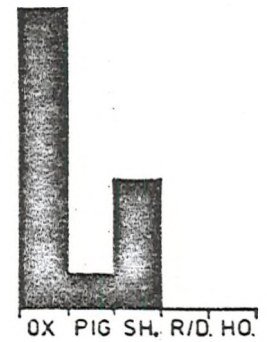
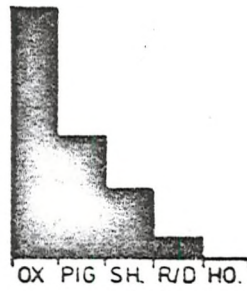
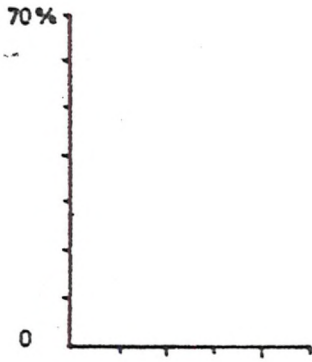
Late Neo.

Beaker

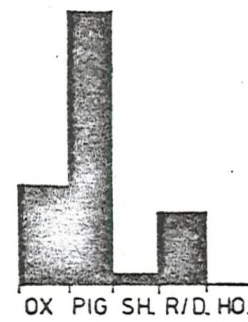
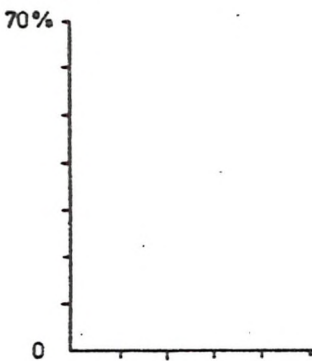
GLE 97 (1980 only)

GLE 57

GLE 92



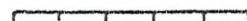
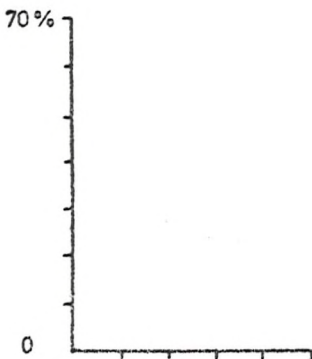
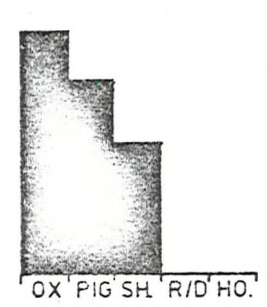
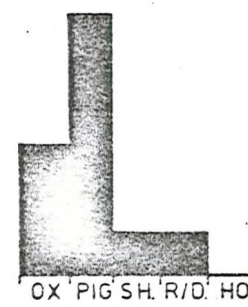
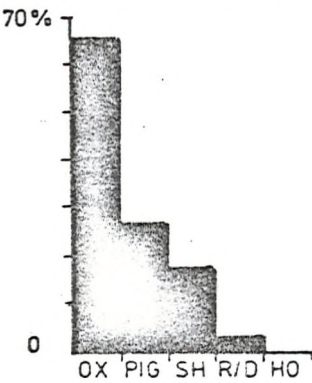
GLE 177



PO 39 (pre-cairn)

GLE 178

SO 18



OX OX / CATTLE
 PIG PIG
 SH. SHEEP / GOAT
 R/D. RED DEER
 HO. HORSE

FIGURE 44. Animal bone frequencies at sites in ecozone 2.

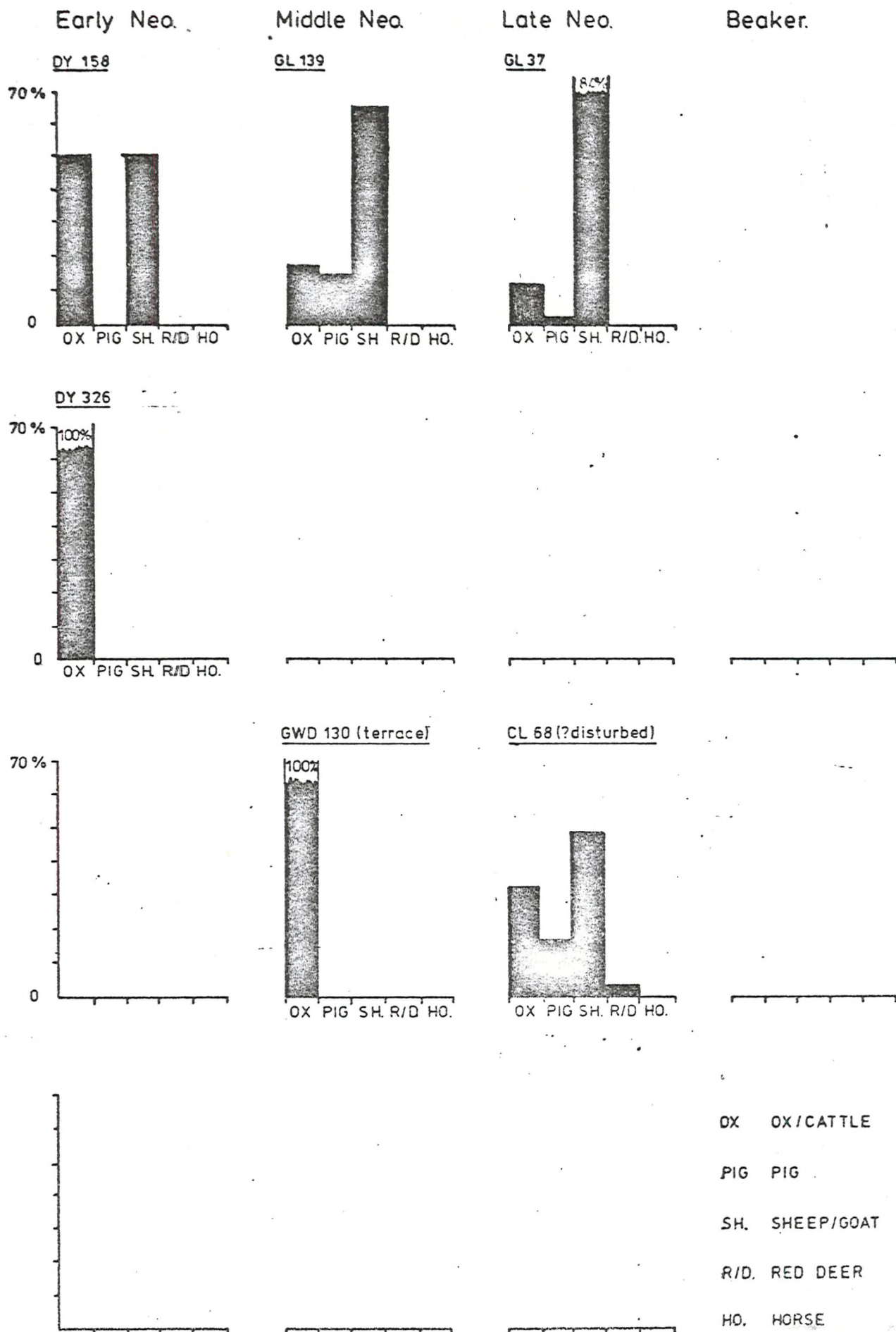
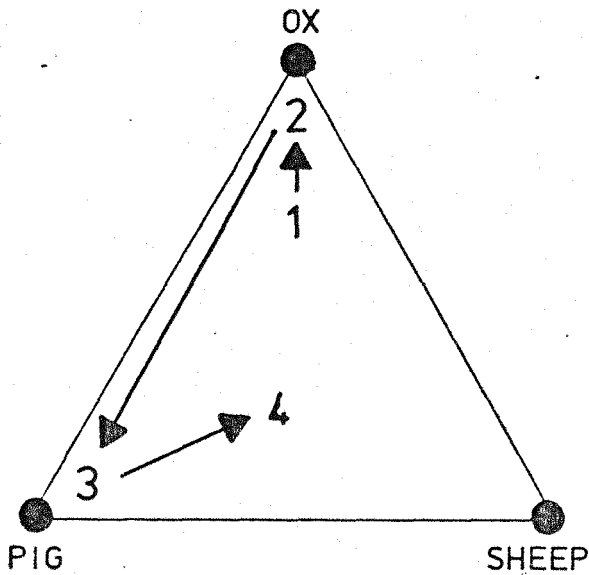
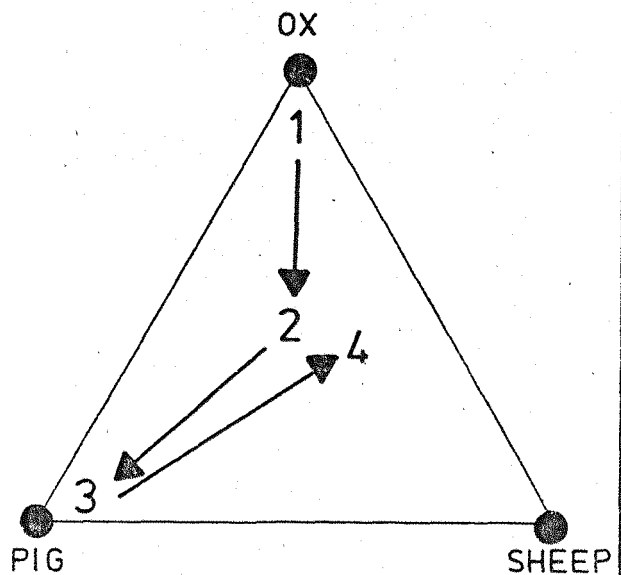


FIGURE 45. Animal bone frequencies at sites in ecozone 3.

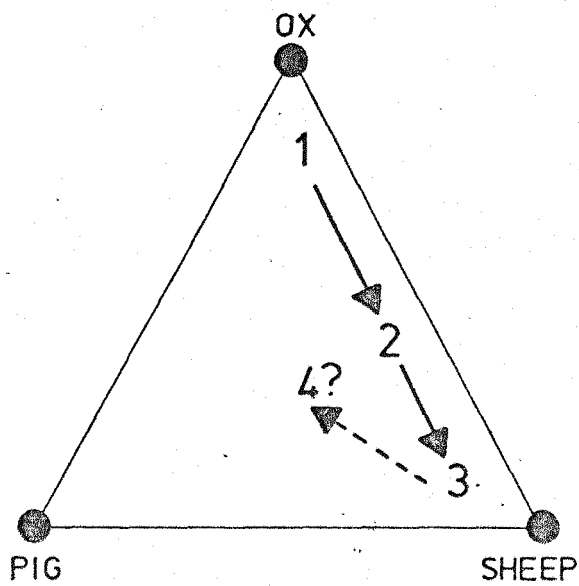
ECOZONE 1.



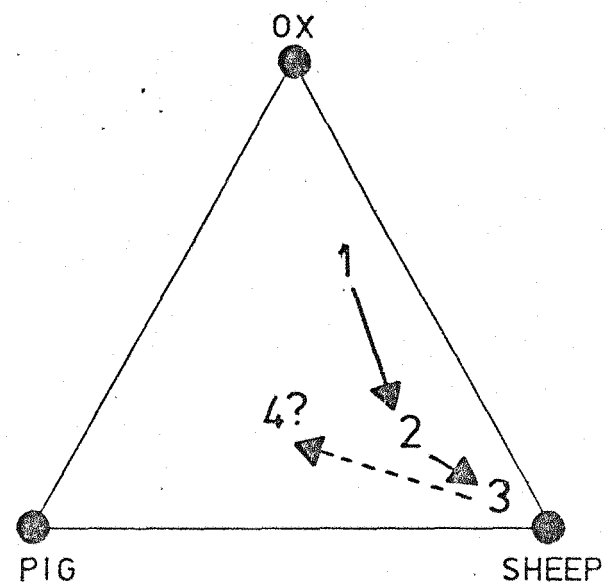
ECOZONE 2.



ECOZONE 3.



uplands



lowlands

FIGURE 46. Summary of trends in animal population spectra.

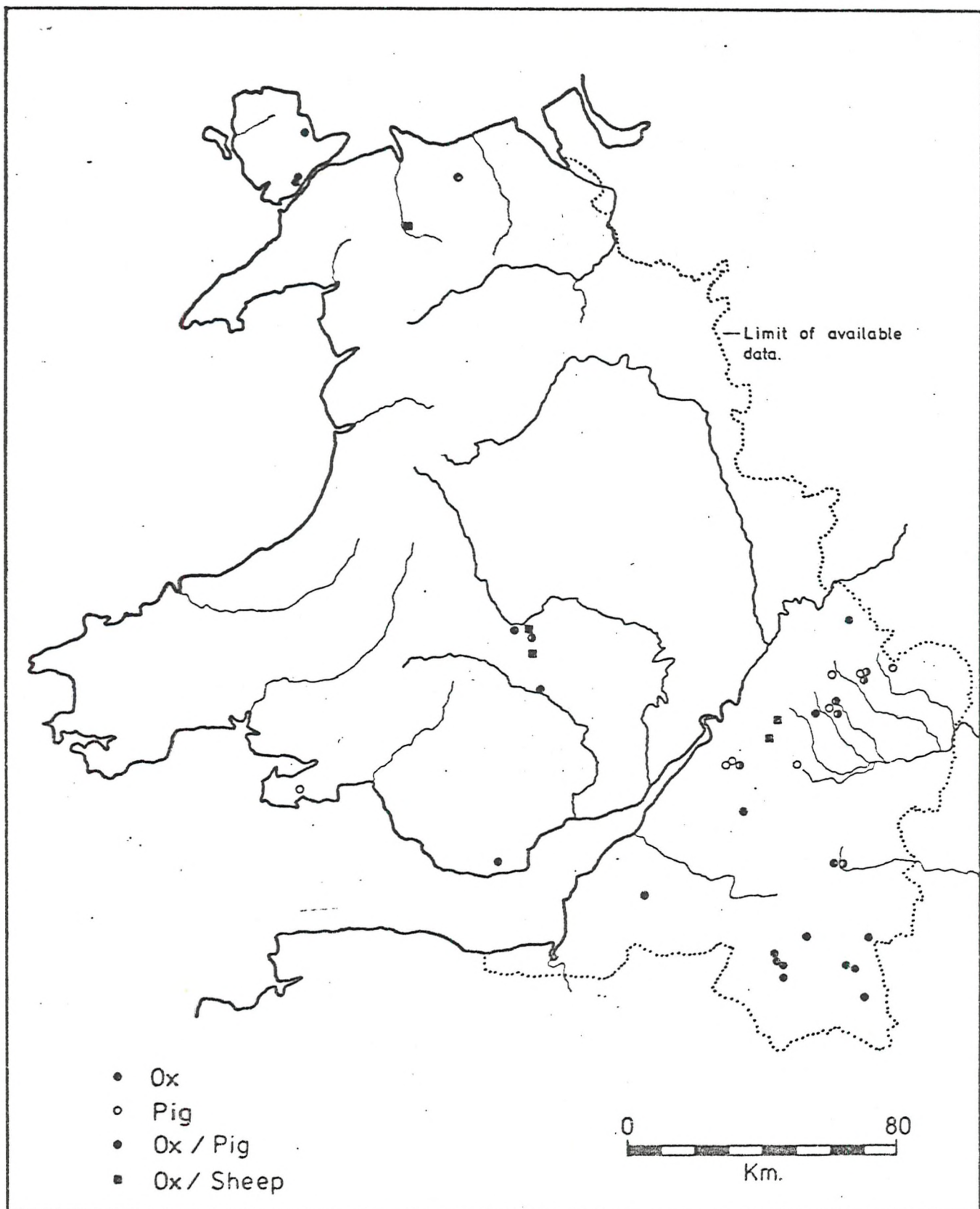


FIGURE 47. Distribution of animal species in "significant" middle neolithic contexts at burial monuments.

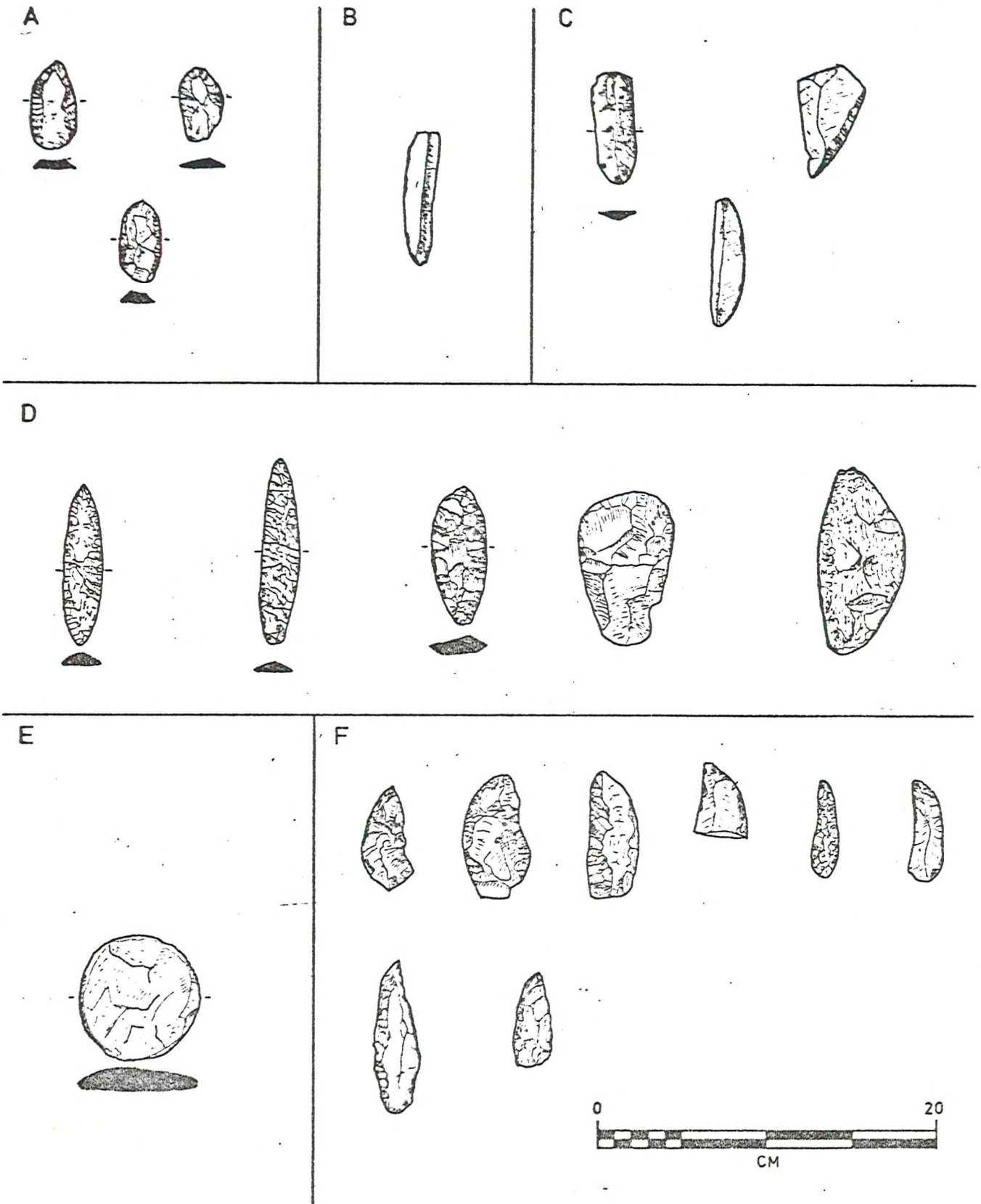


FIGURE 48. Typology of neolithic flint knives. (see page 83 for key to lettering).

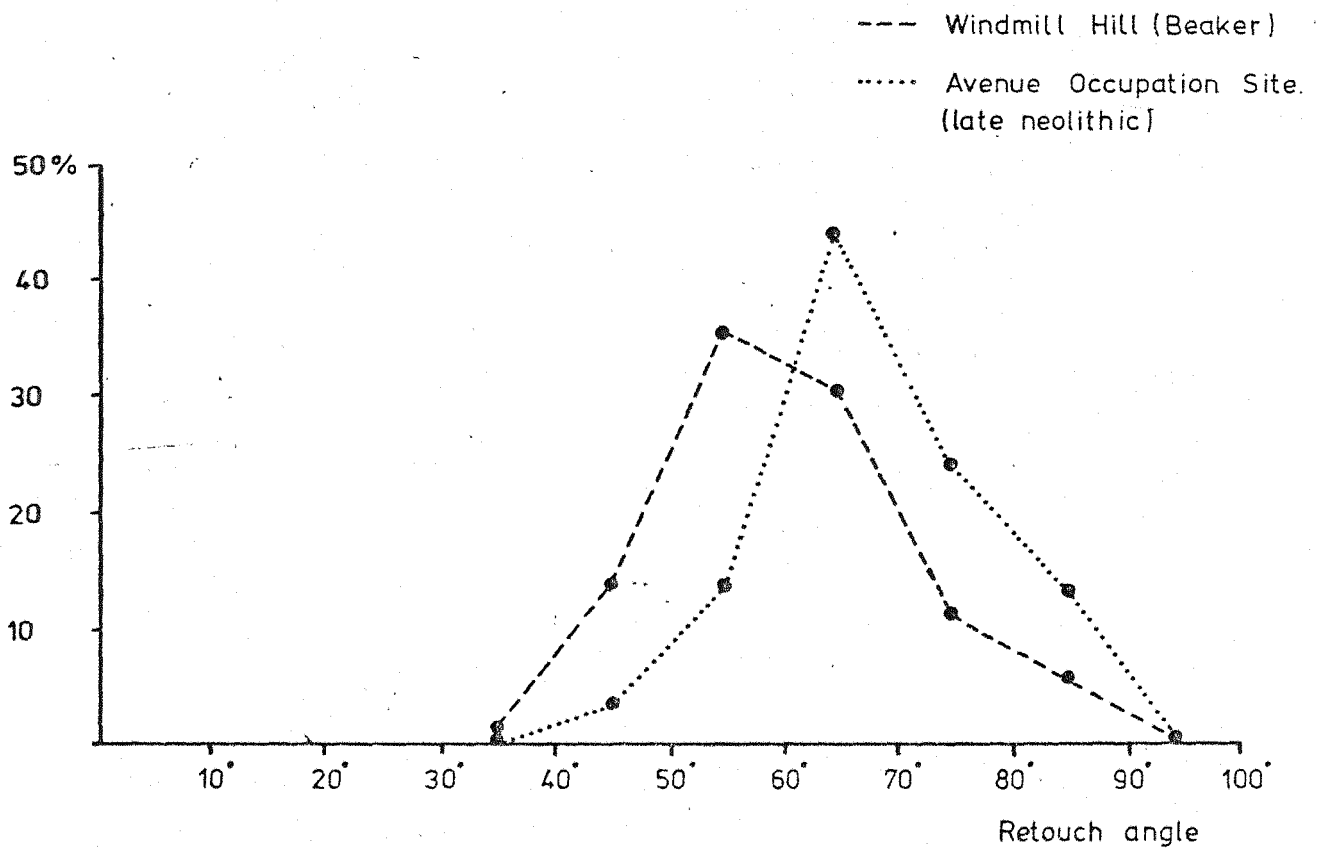
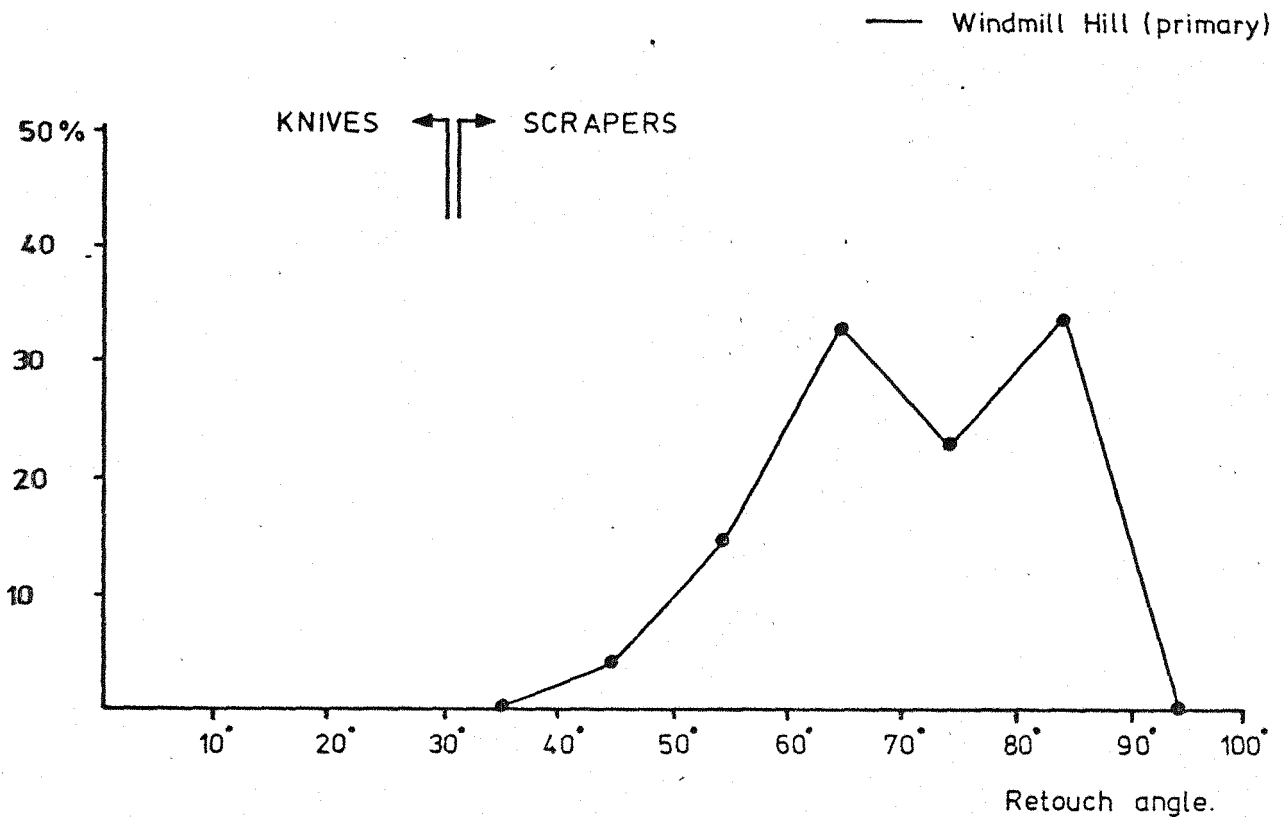
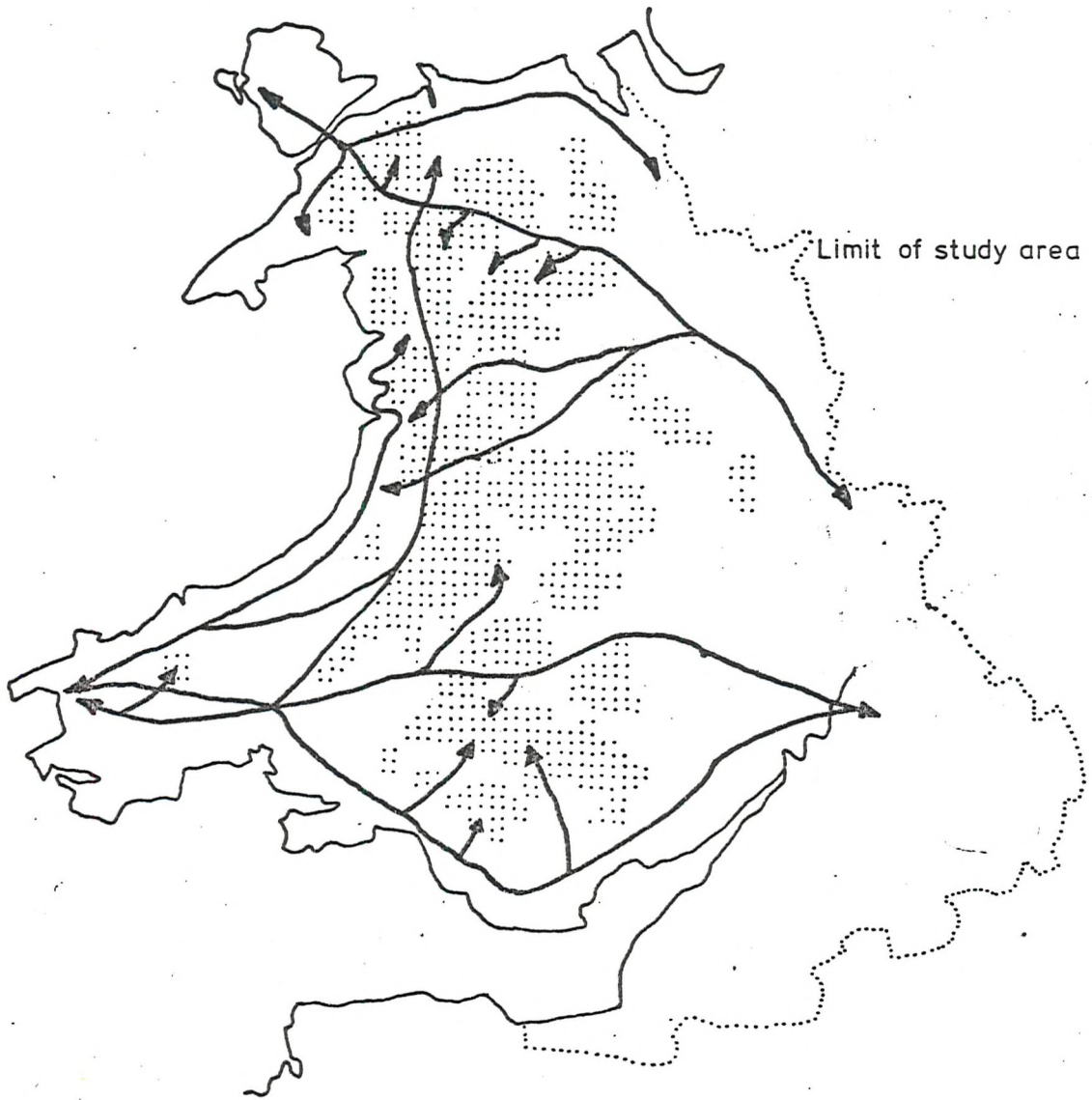


FIGURE 49. Graphs showing the % frequency of retouch angle on flint scrapers.



Land over 1000' o.d. shaded.

0 50 KM.

[AFTER WEBLEY 1976, FIG.5]

FIGURE 51. Natural animal movements in Wales.

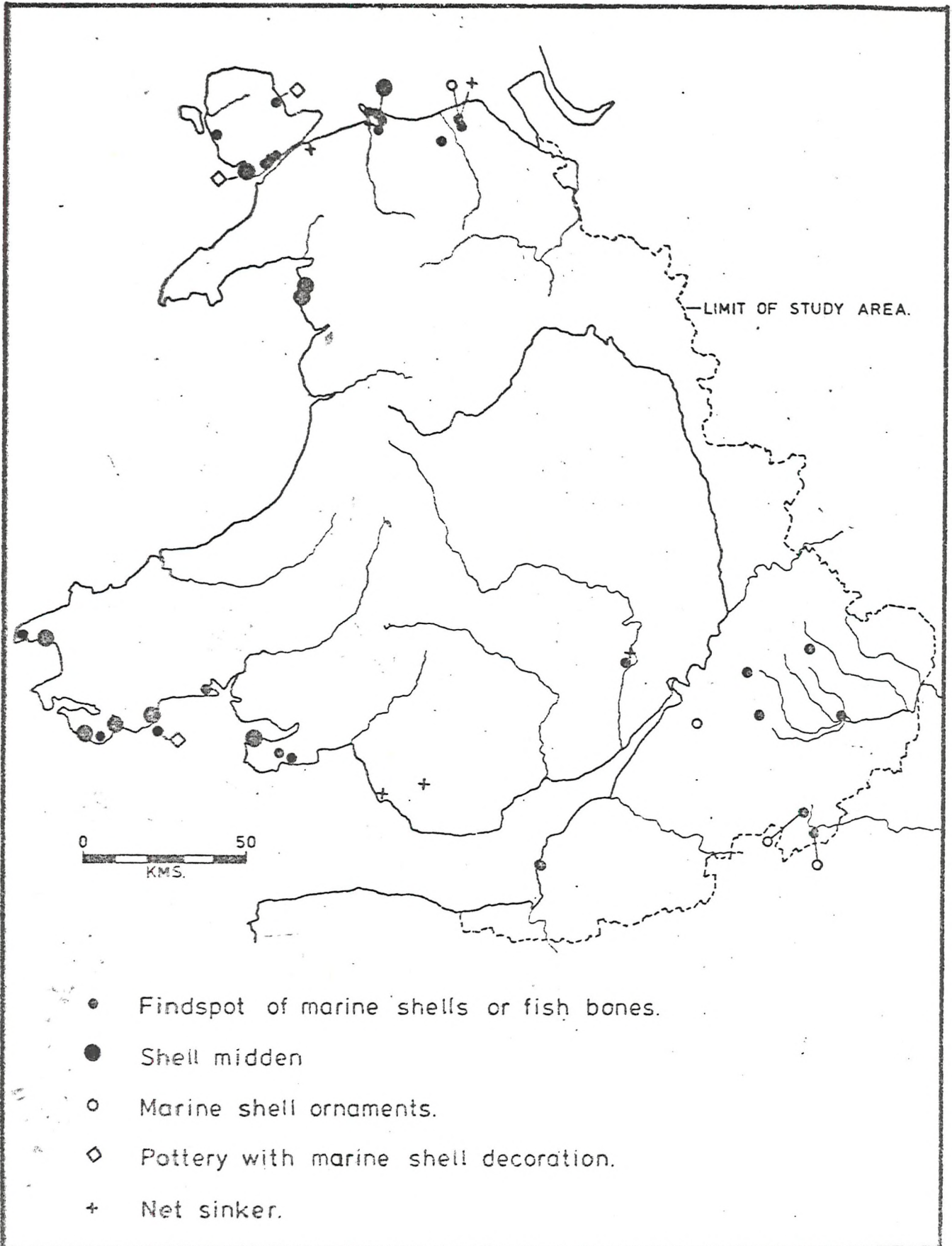


FIGURE 52. Distribution of data relating to use of marine resources.

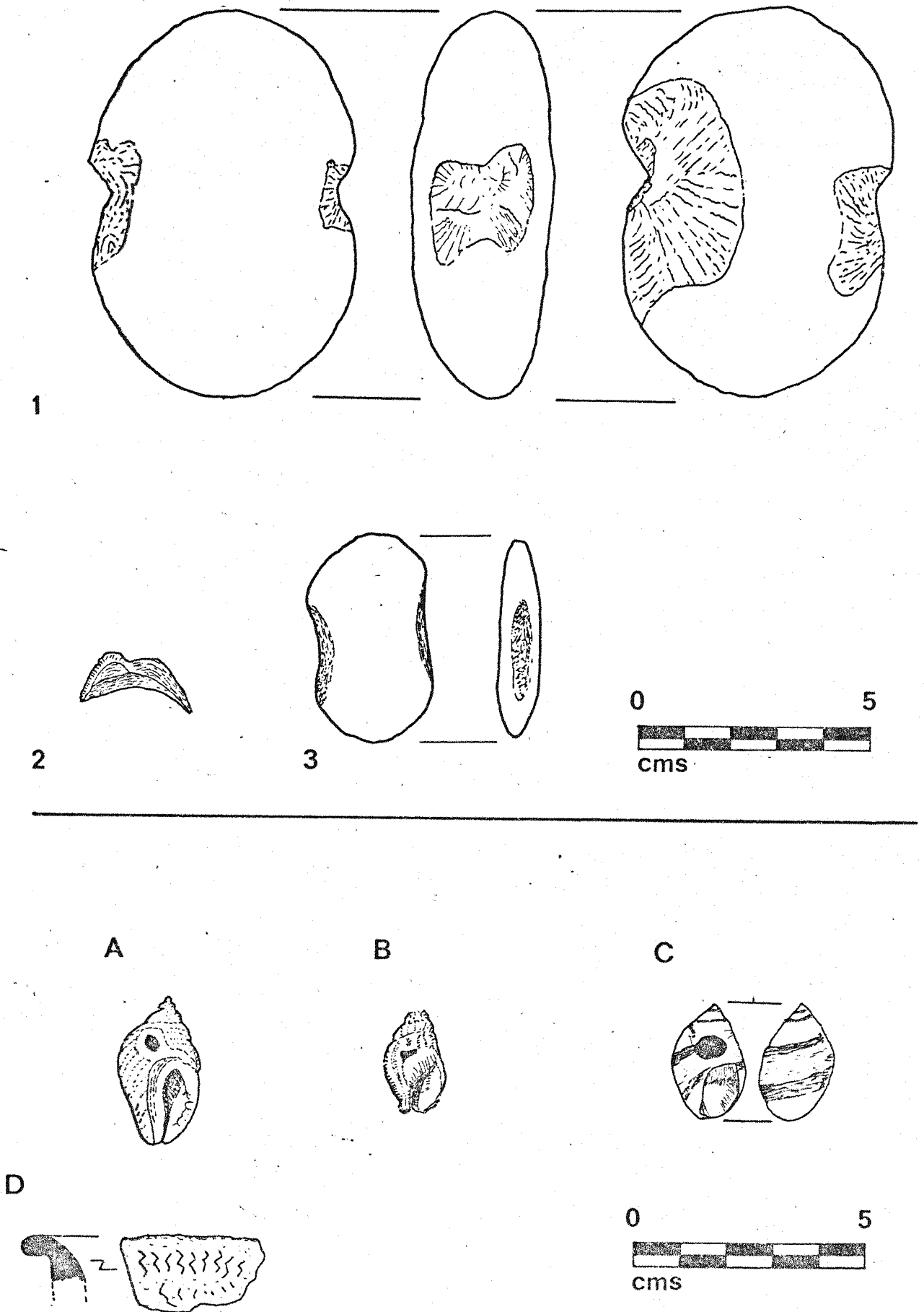


FIGURE 53. Artifacts relating to the exploitation of marine resources.
(See 5.5 for key to numbering)

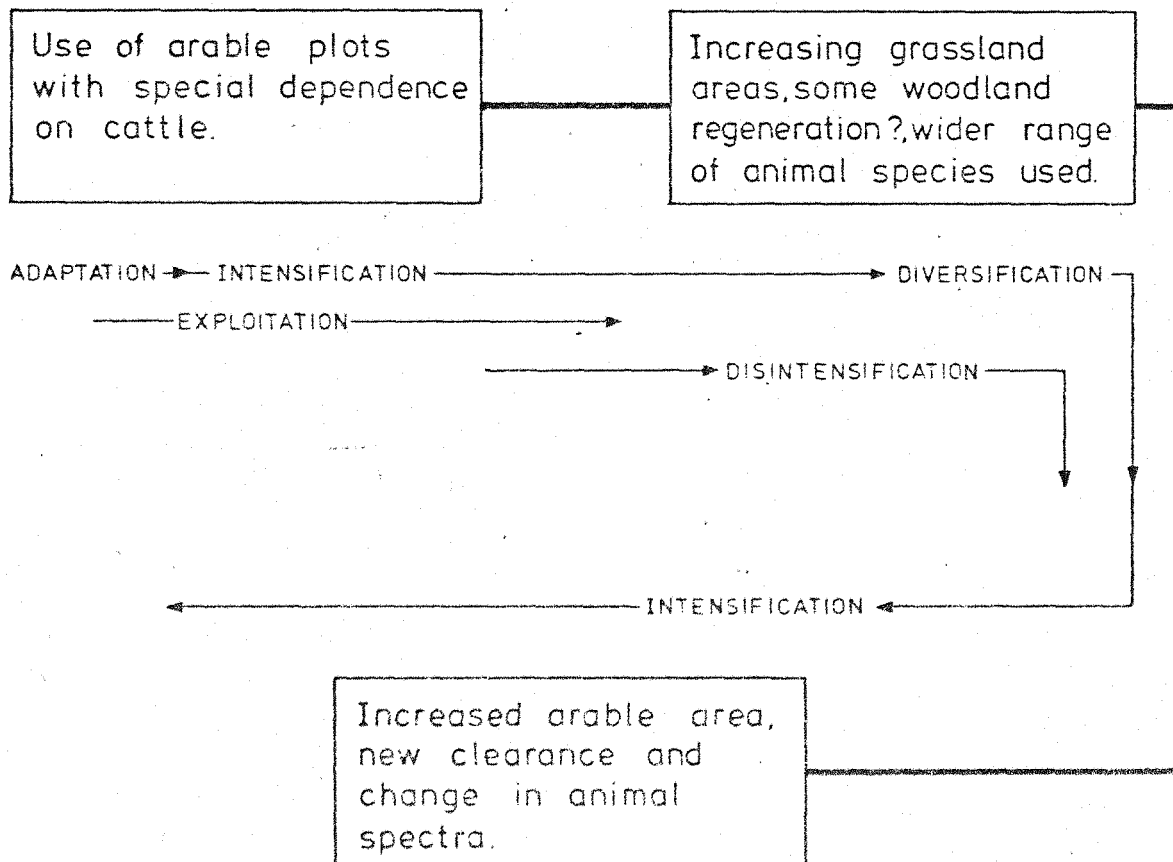
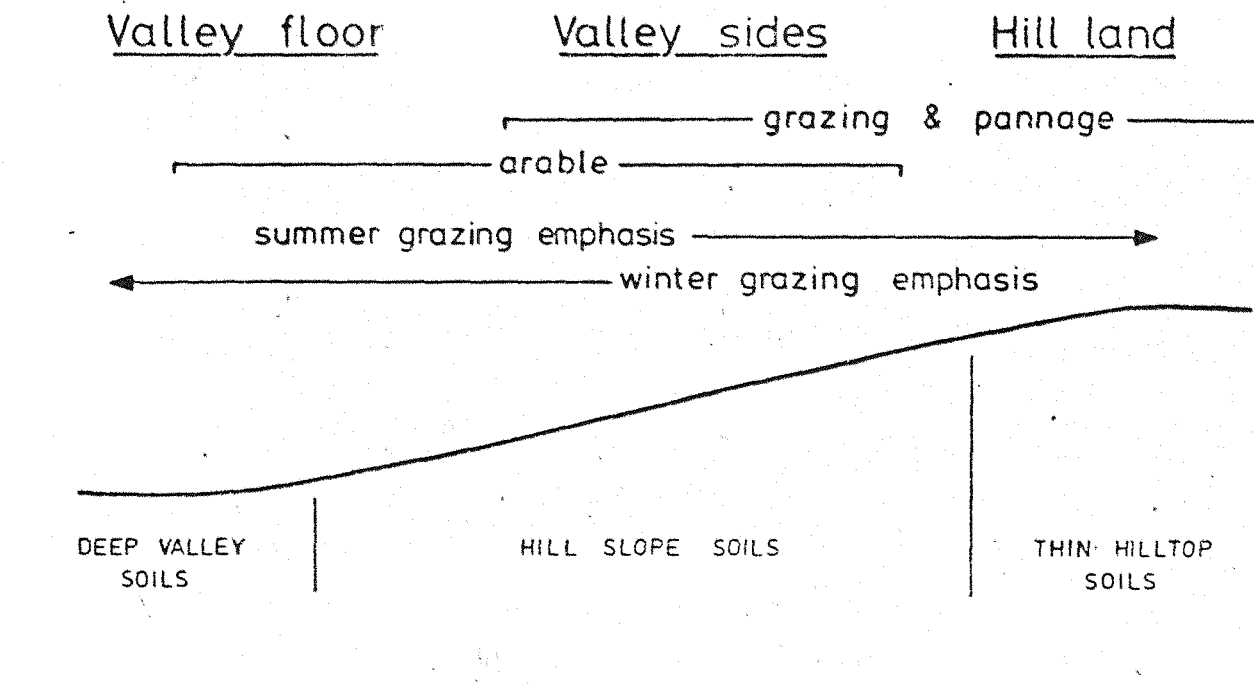


FIGURE 54. Land use model and trajectory summary for subsistence activities in ecozone 1.

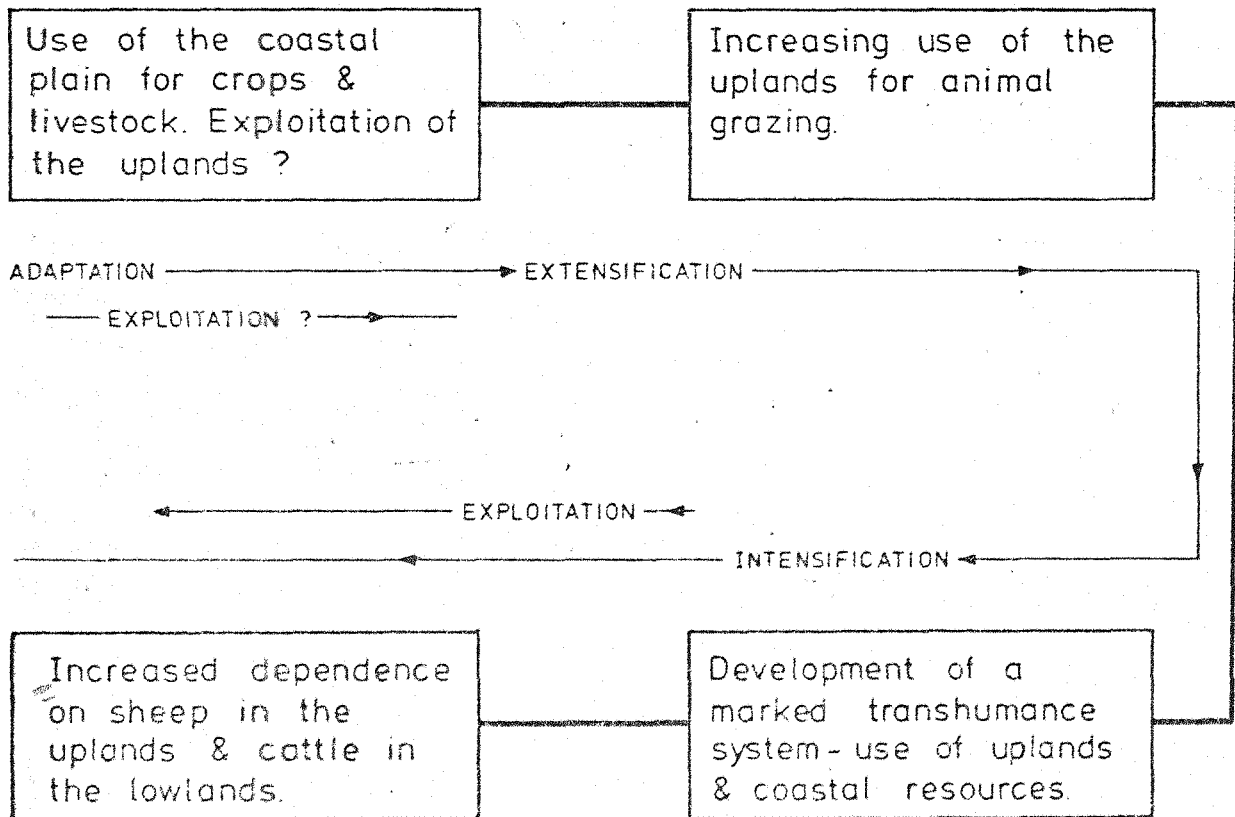
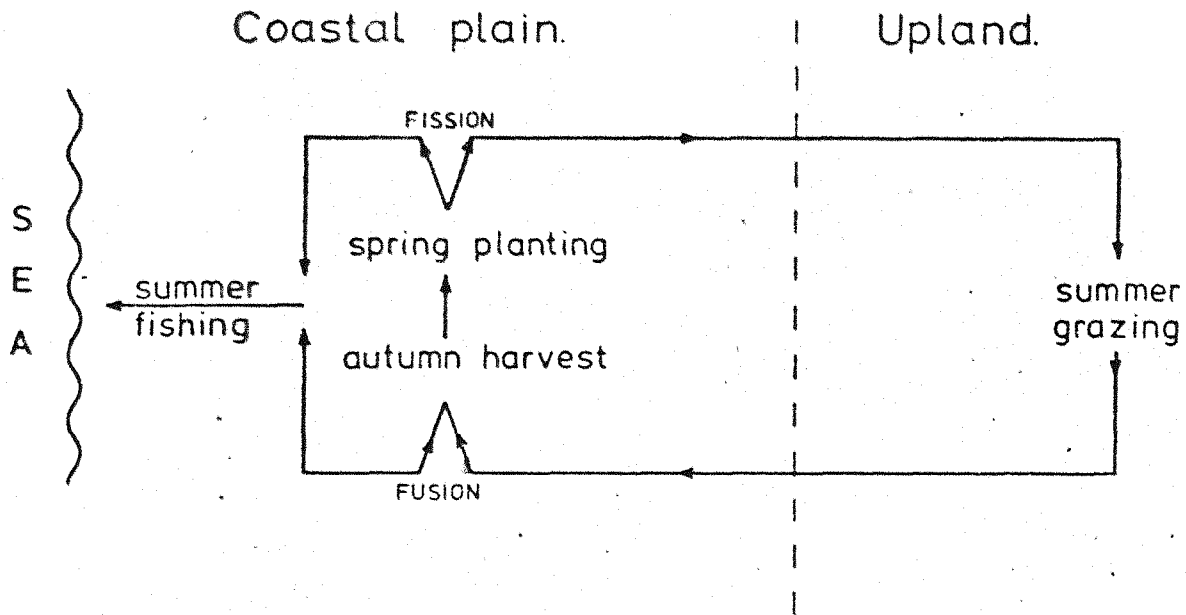


FIGURE 56. Land use model and trajectory summary for subsistence activities in ecozone 3.

INTERACTION & PROJECTIVE

- ↘ PERCEIVED IMPORTANCE AND SOCIAL COHESION
- ↘ SURPLUS PRODUCE

POLITICAL

- ↘ TIME CONTROL
- ↘ SOLIDARITY

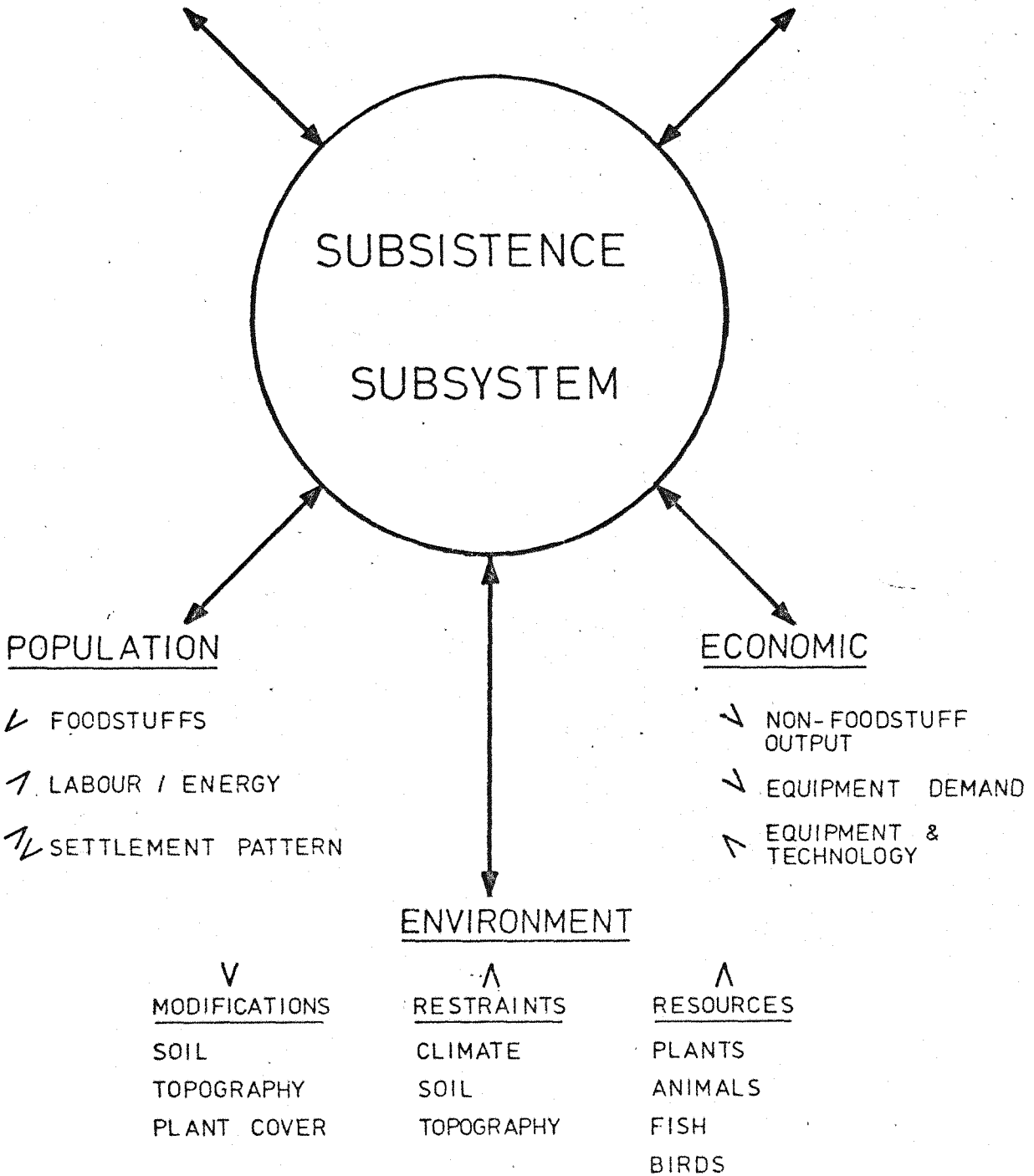


FIGURE 57. Summary of inputs and outputs from the subsistence subsystem.

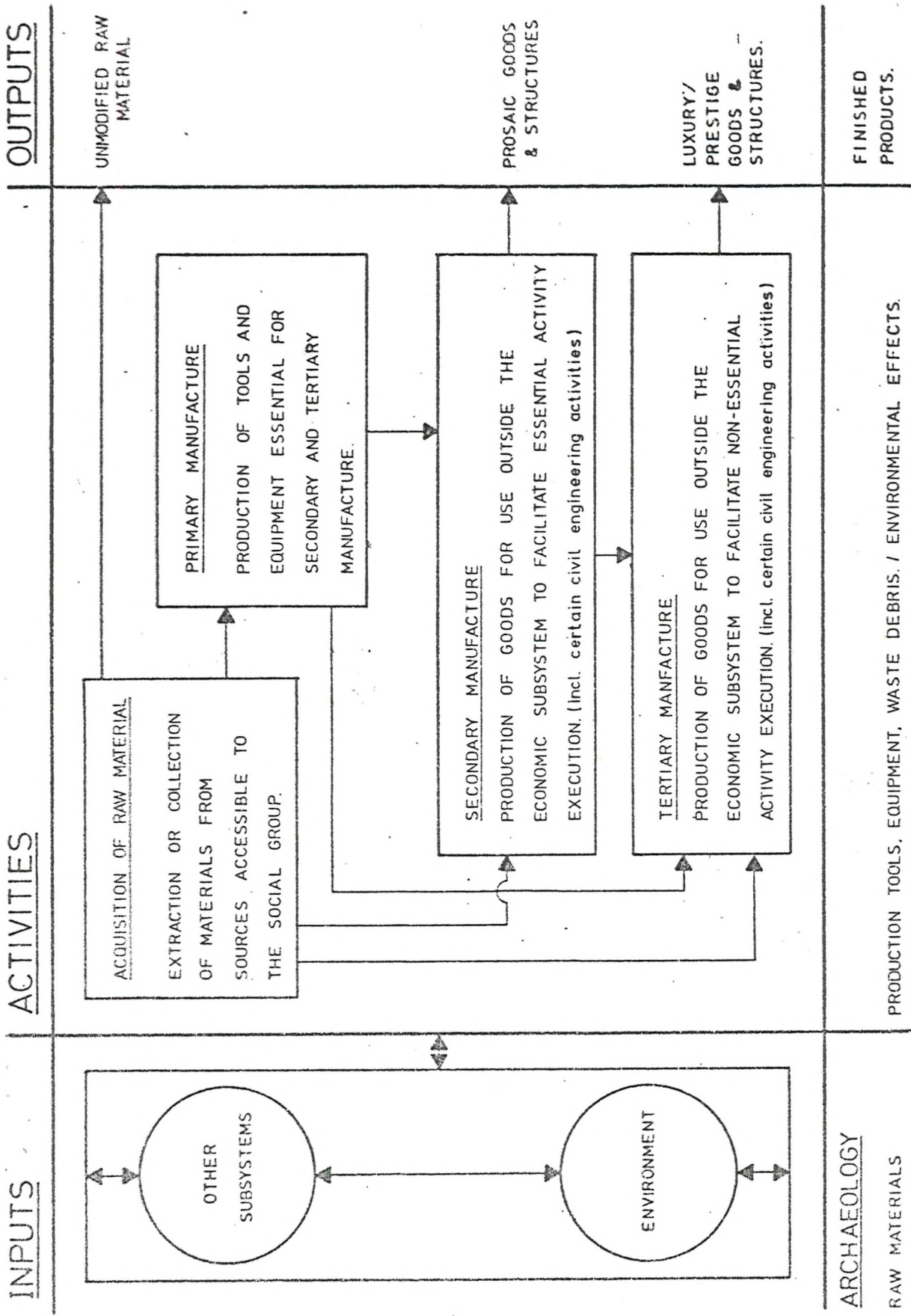


FIGURE 58. Schematic representation of the internal working of the economic subsystem.

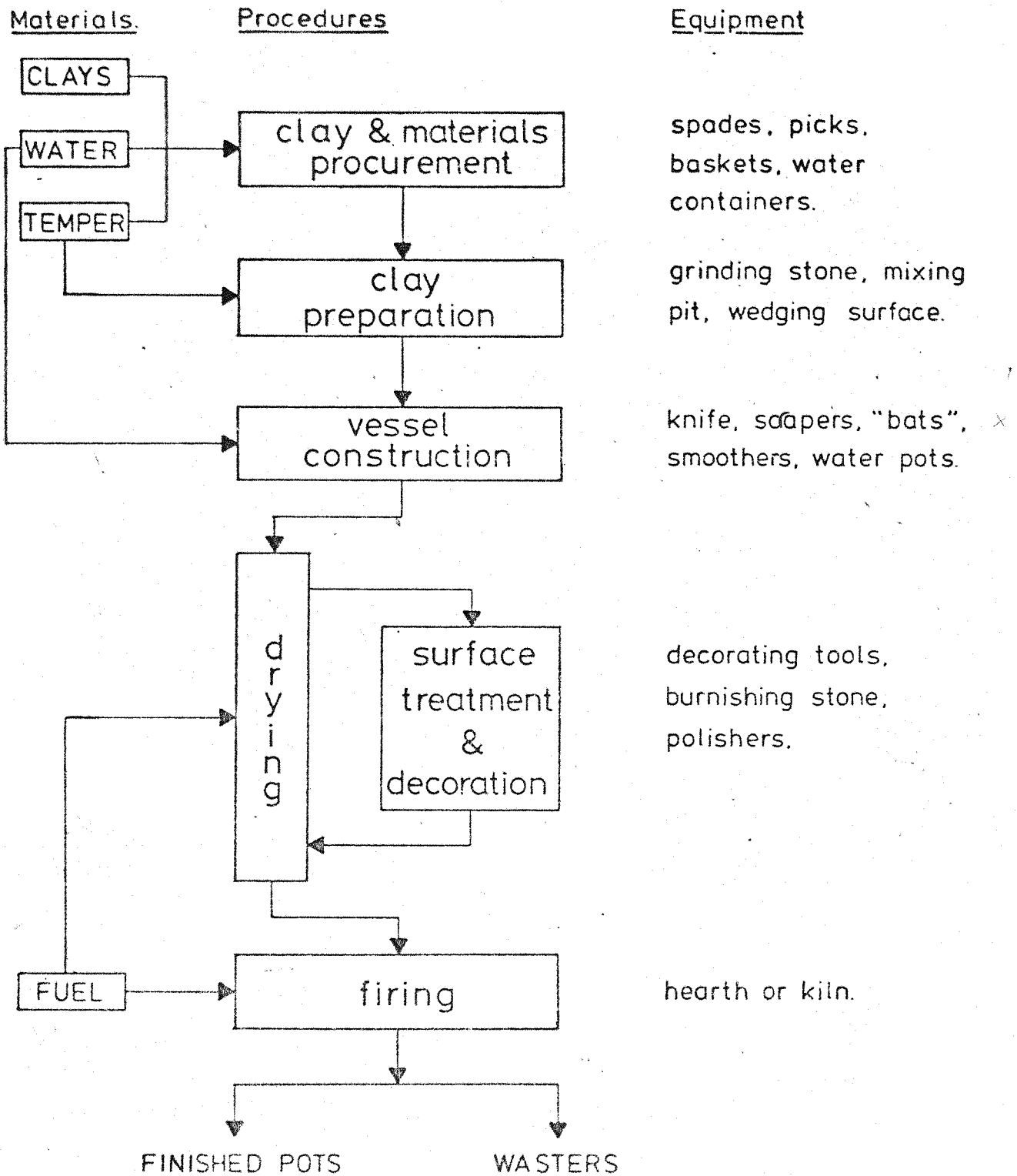
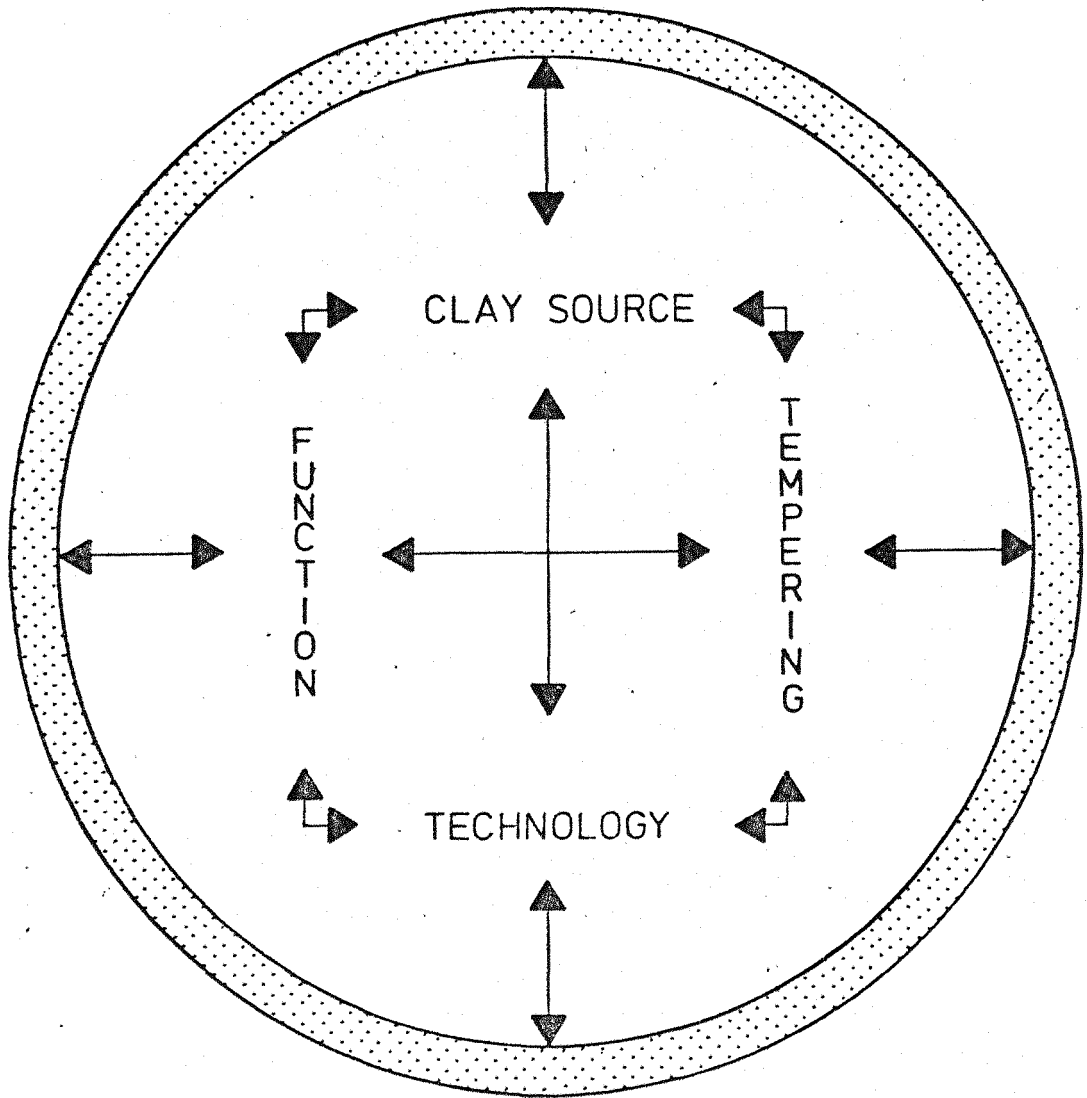


FIGURE 59. Materials, procedures and equipment involved in pottery production.



NATURAL ENVIRONMENT AND SOCIAL CONTEXT

FIGURE 60. Interaction of factors affecting the nature of pottery objects.

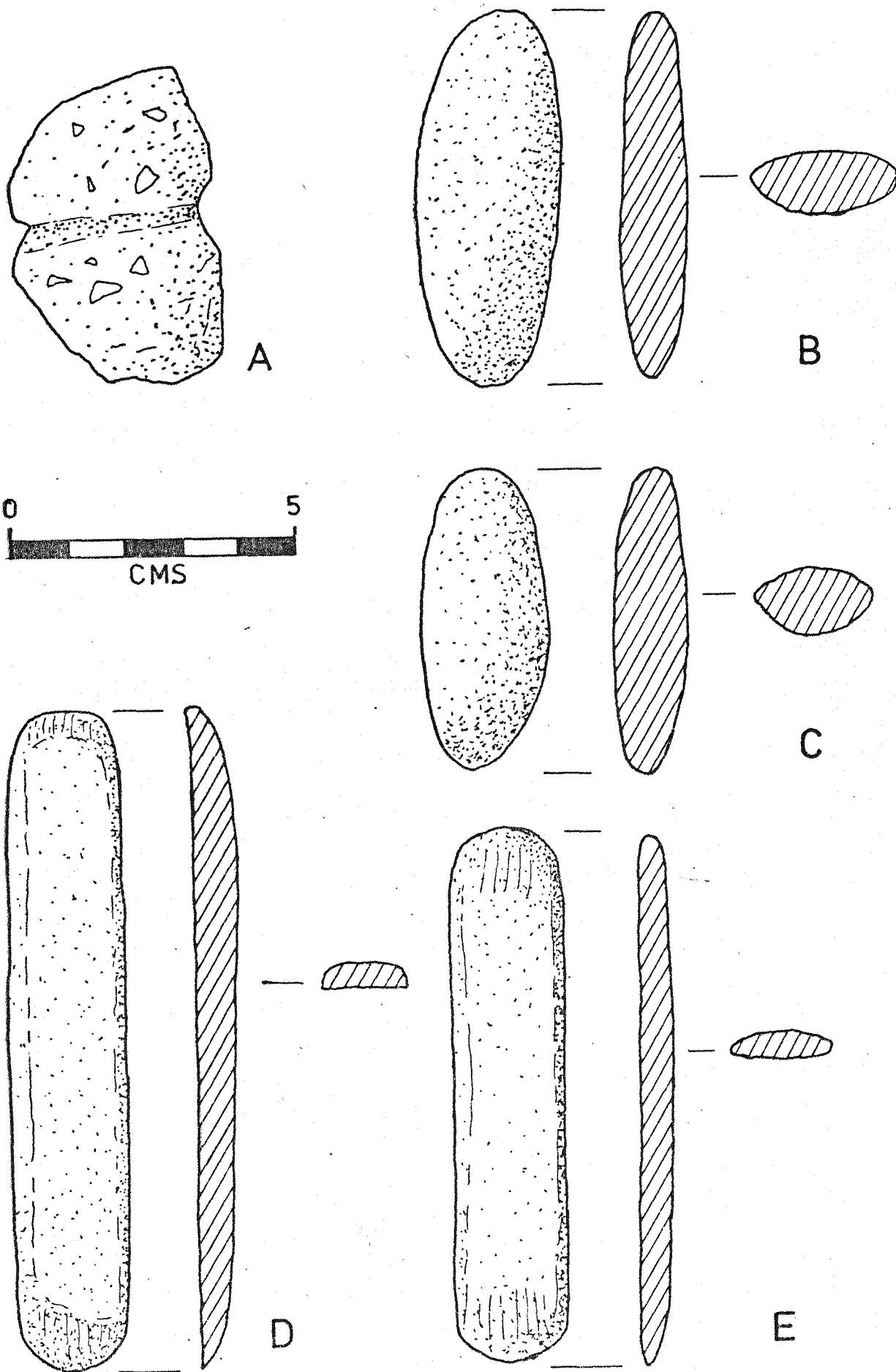
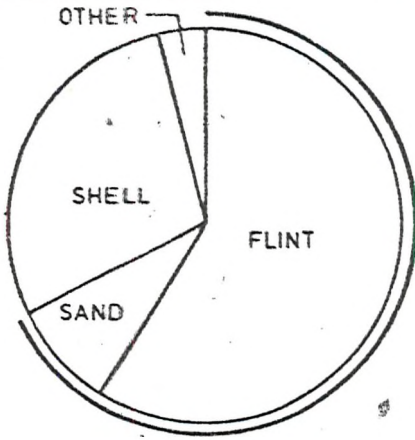
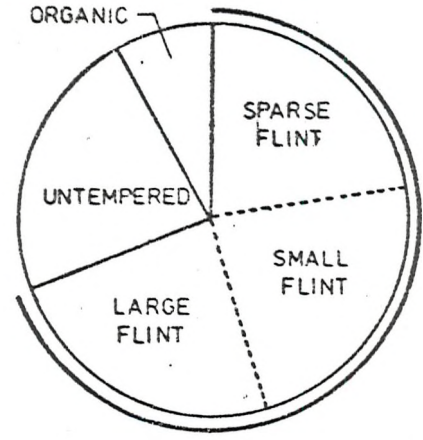


FIGURE 61. Potter's clay and pot-making equipment. (See 6.2 for key to lettering).

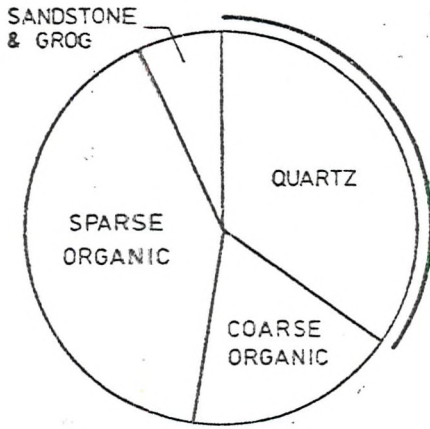
Windmill Hill. [lower ditch] WI 11



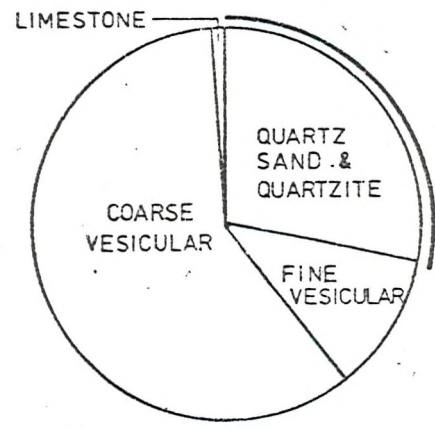
Hemp Knoll. WI 74



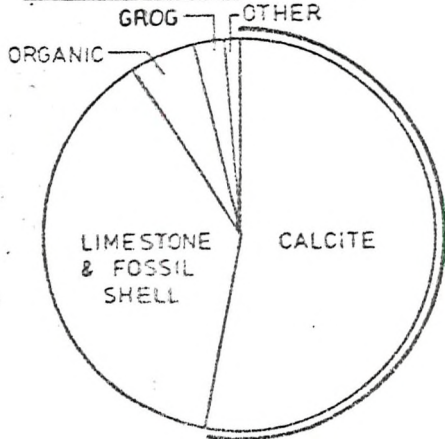
Gwernvare. [pre-cairn] PO 39



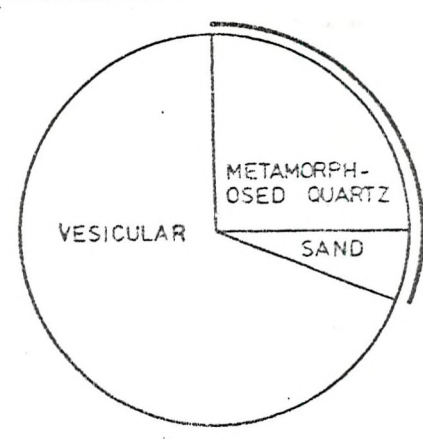
Clegyr Boia. DY 326



Peak Camp. GLE 97



Llanelwedd. PO 88



HARD ROCK TEMPER

FIGURE 62. Fabric frequency diagrams for early and middle neolithic domestic assemblages.

PO 39

CAIRN
BLOCKING

USE OF
CAIRN

PRE -
CAIRN

fabrics

1

2

3

4

5

6

7

1. FINE QUARTZ

2. COARSE ORGANIC

3. FINE ORGANIC

4. SANDSTONE & GROUT

5. CHERT

6. METAMORPHOSED QUARTZ

7. LARGE QUARTZ

GLE 308

BEAKER
BURIAL

CAIRN
BLOCKING

FORECOURT
FILLING

CHAMBER
FILL

PRE -
CAIRN ?

fabrics

1

2

3

4

5

6

7

1. HEAVY SHELL

2. LIGHT SHELL

3. QUARTZ & LIMESTONE

4. NO ADDITIVES

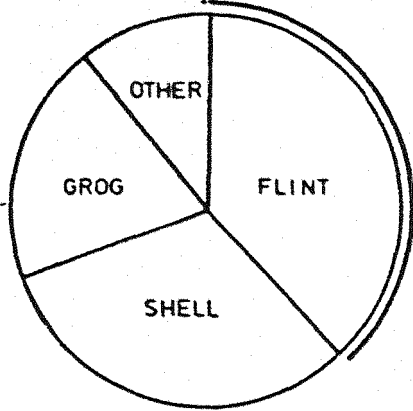
5. LIMESTONE

6. FLINT

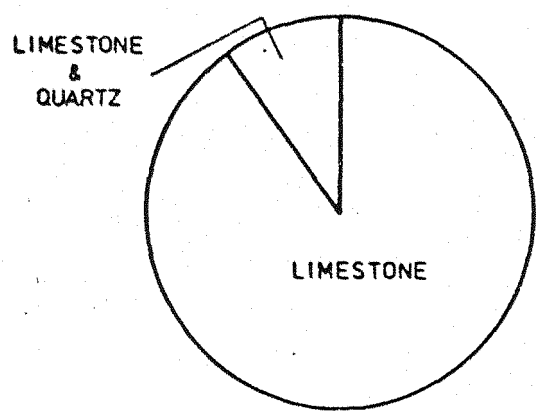
7. FINE LIMESTONE / ORGANIC

FIGURE 63. Fabric representation through multi-phase early and middle neolithic sites.

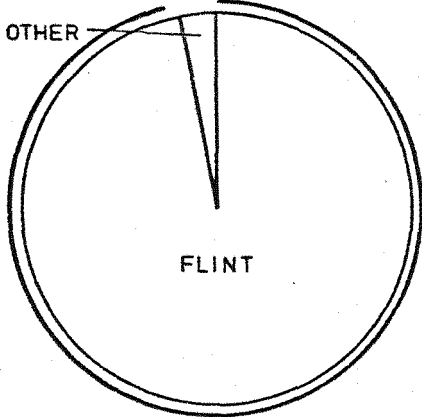
Windmill Hill [upper ditch] WI 11



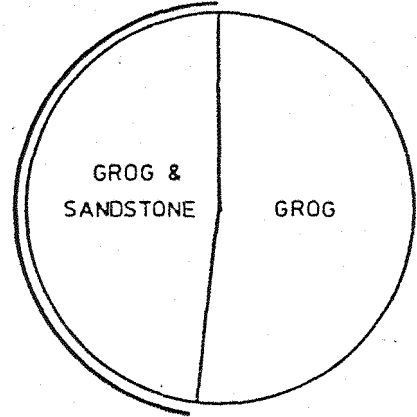
Cam. GLE 57



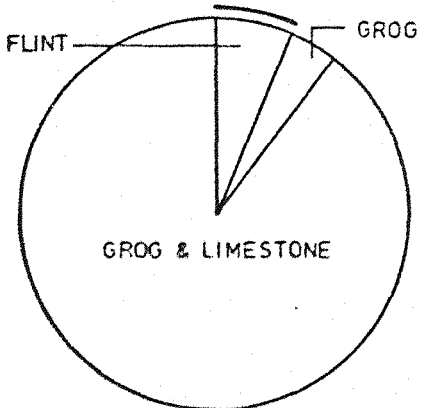
Avenue Occupation Site. WI 11



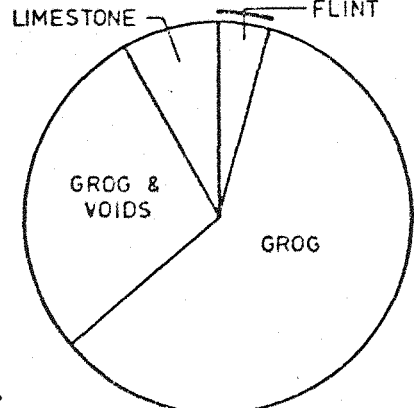
Trelystan PO 183.



Roughground Fm. GLE 177.



Partridges Pit. OX 33.



HARD ROCK TEMPER

FIGURE 64. Fabric frequency diagrams for late neolithic and beaker domestic assemblages.

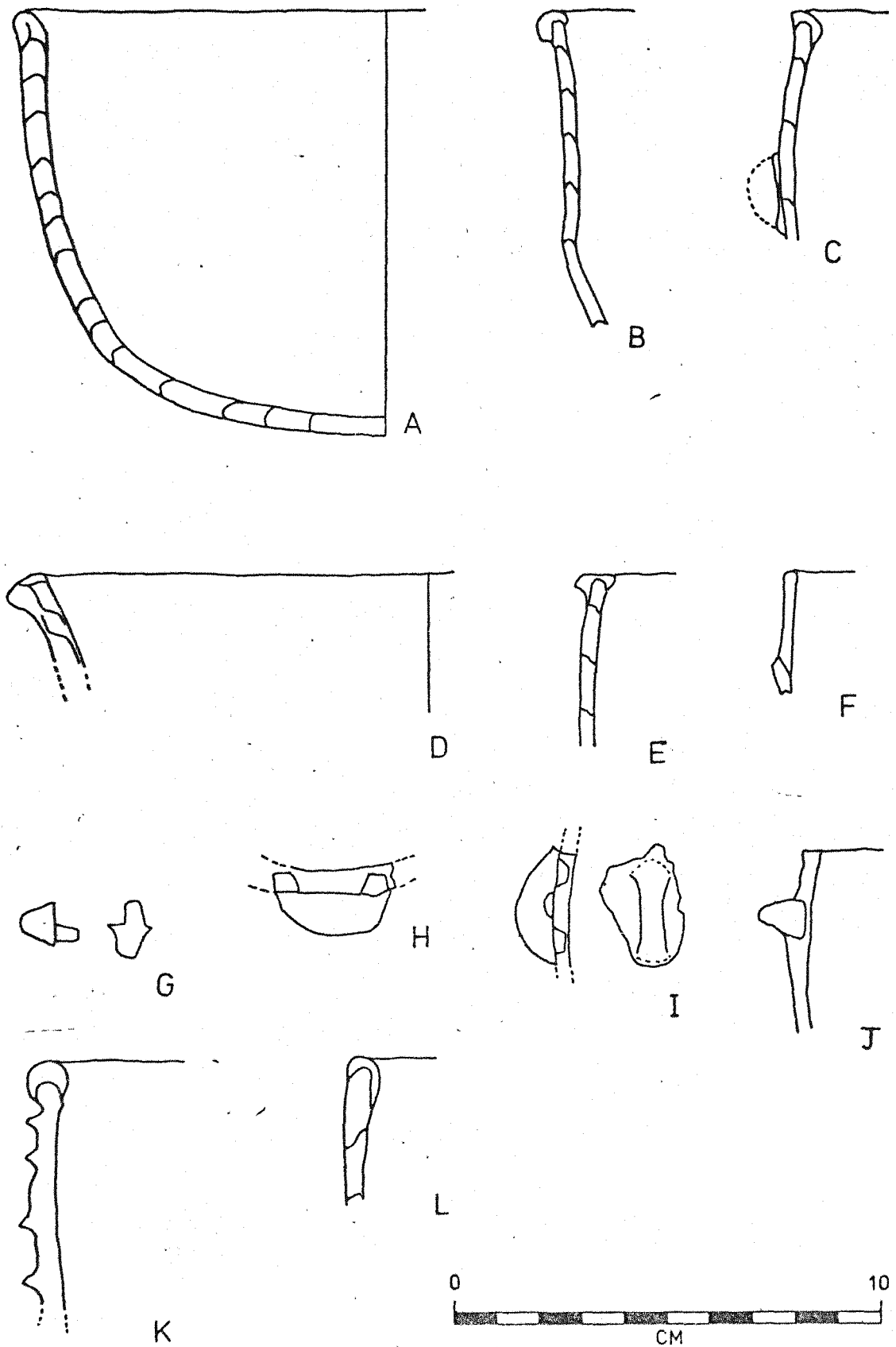


FIGURE 65. Profiles of neolithic pottery showing construction features.
(Sources: various).

Windmill Hill, Wilts.. [early enclosure phase]

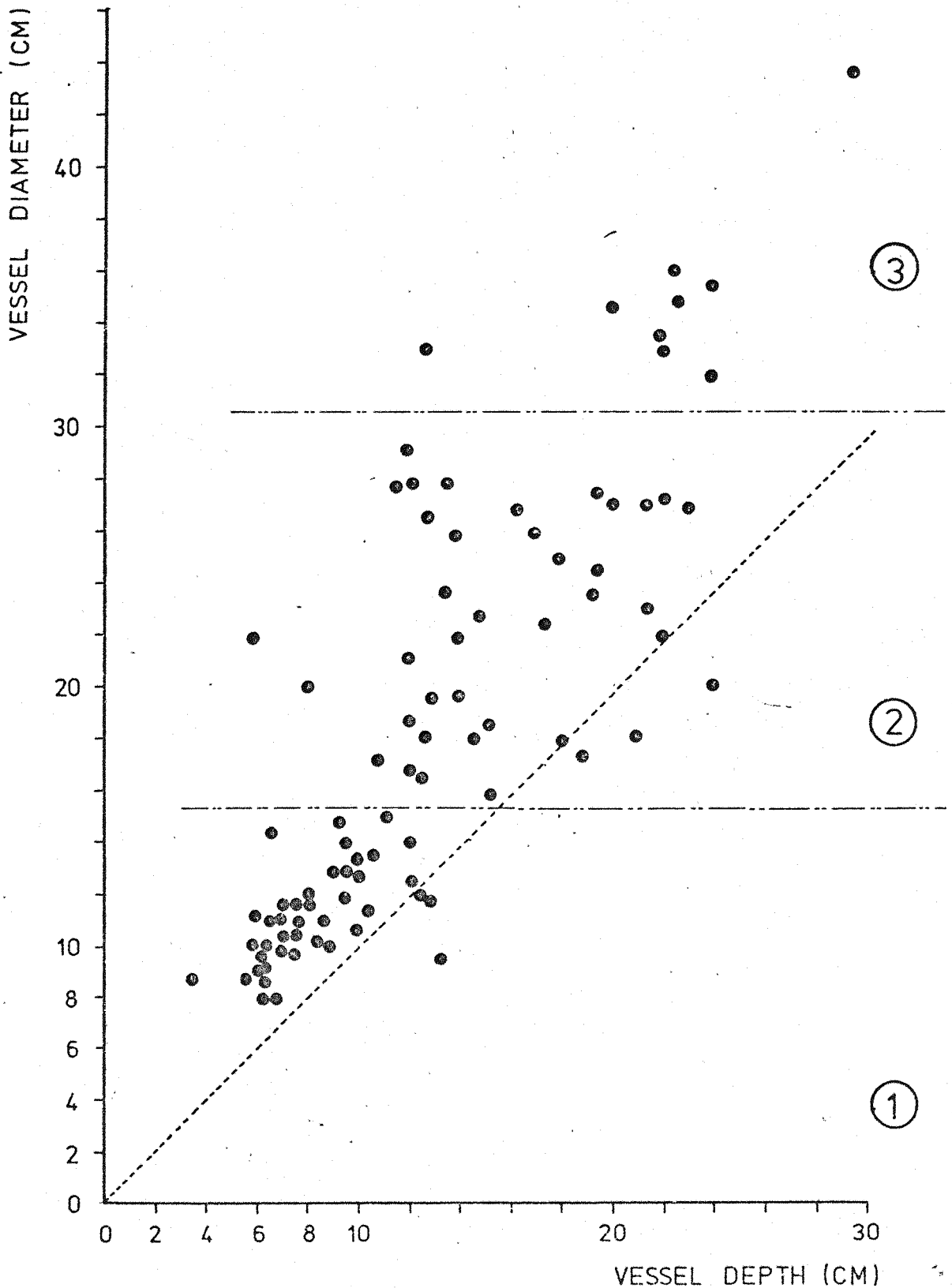


FIGURE 66. Scattergram showing the size of middle neolithic pottery from Windmill Hill (WI 11).

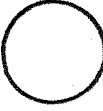



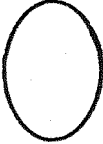




















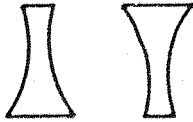






	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	
a 				sphere
b 				ellipsoid
c 				ellipsoid
d 				ovaloid
e 				ovaloid
f 				cylinder
g 				hyperboloid
h 				cone

FIGURE 67. Hypothetical developments of geometric solids and surfaces to model neolithic vessel form.

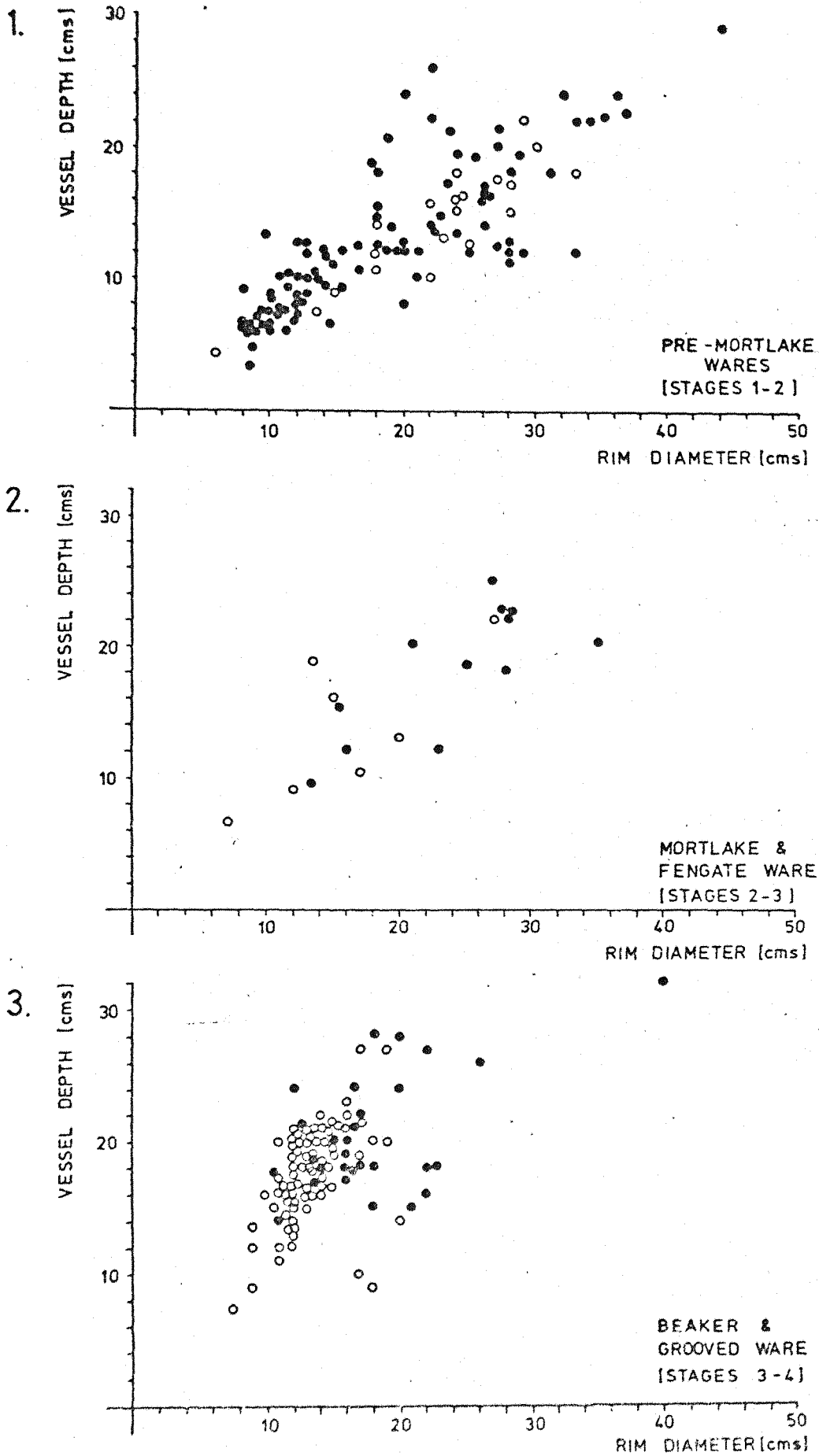


FIGURE 68. Scattergrams showing vessel sizes from three specified periods according to context of deposition (dots = non funerary contexts; open circles = funerary associations.).

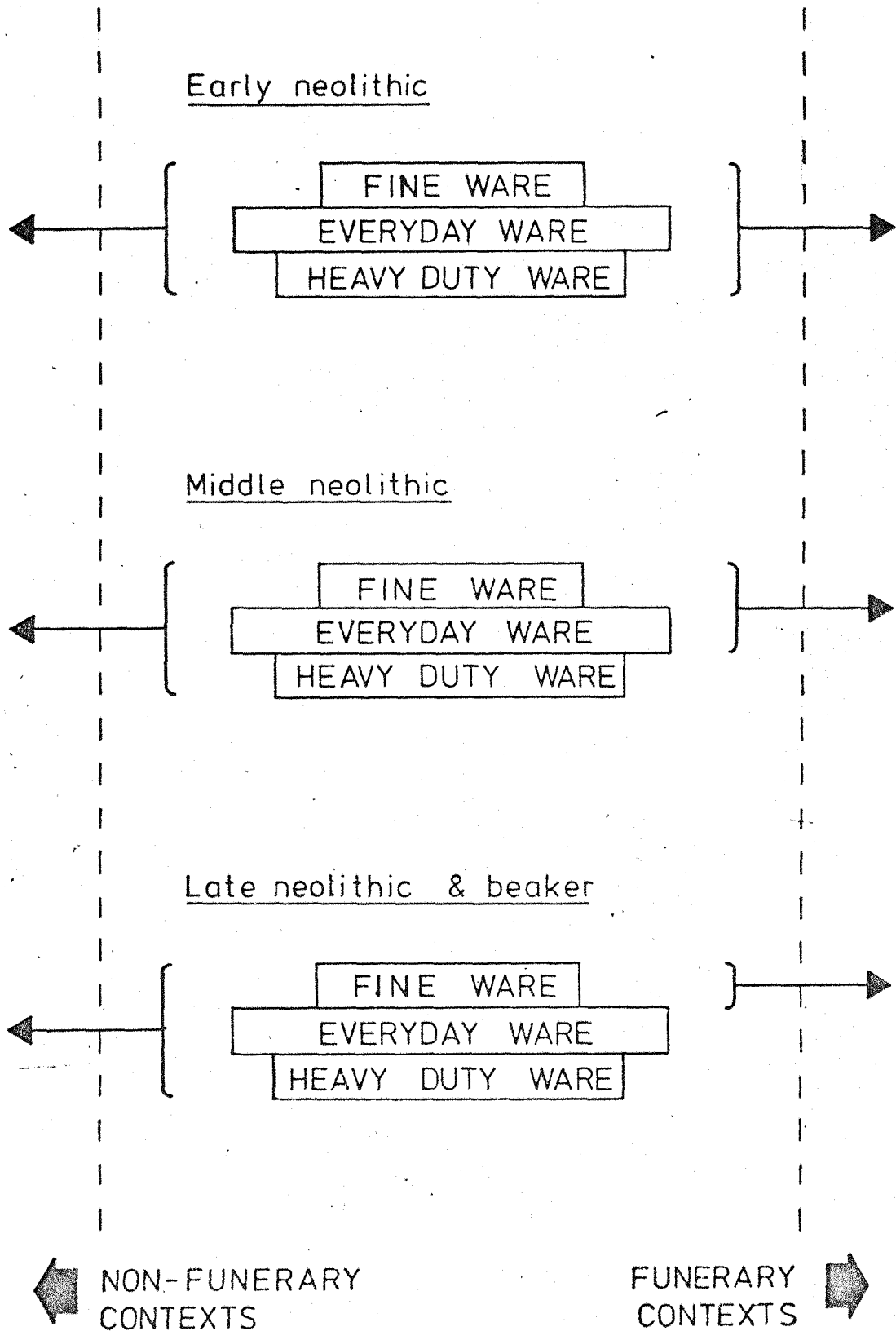


FIGURE 69. Summary of depositional characteristics of neolithic pottery assemblages.

STONE AXE SOURCES.

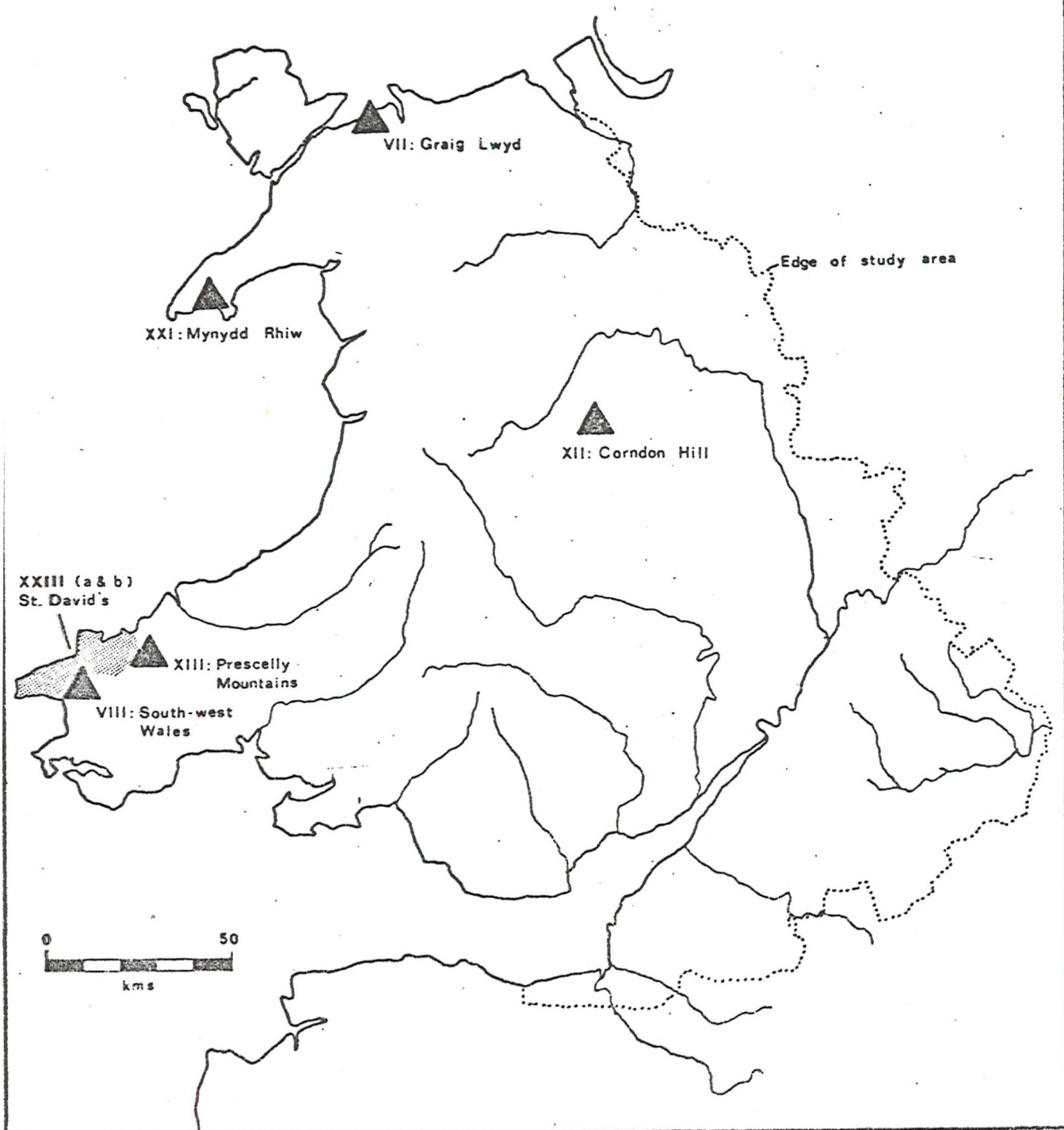
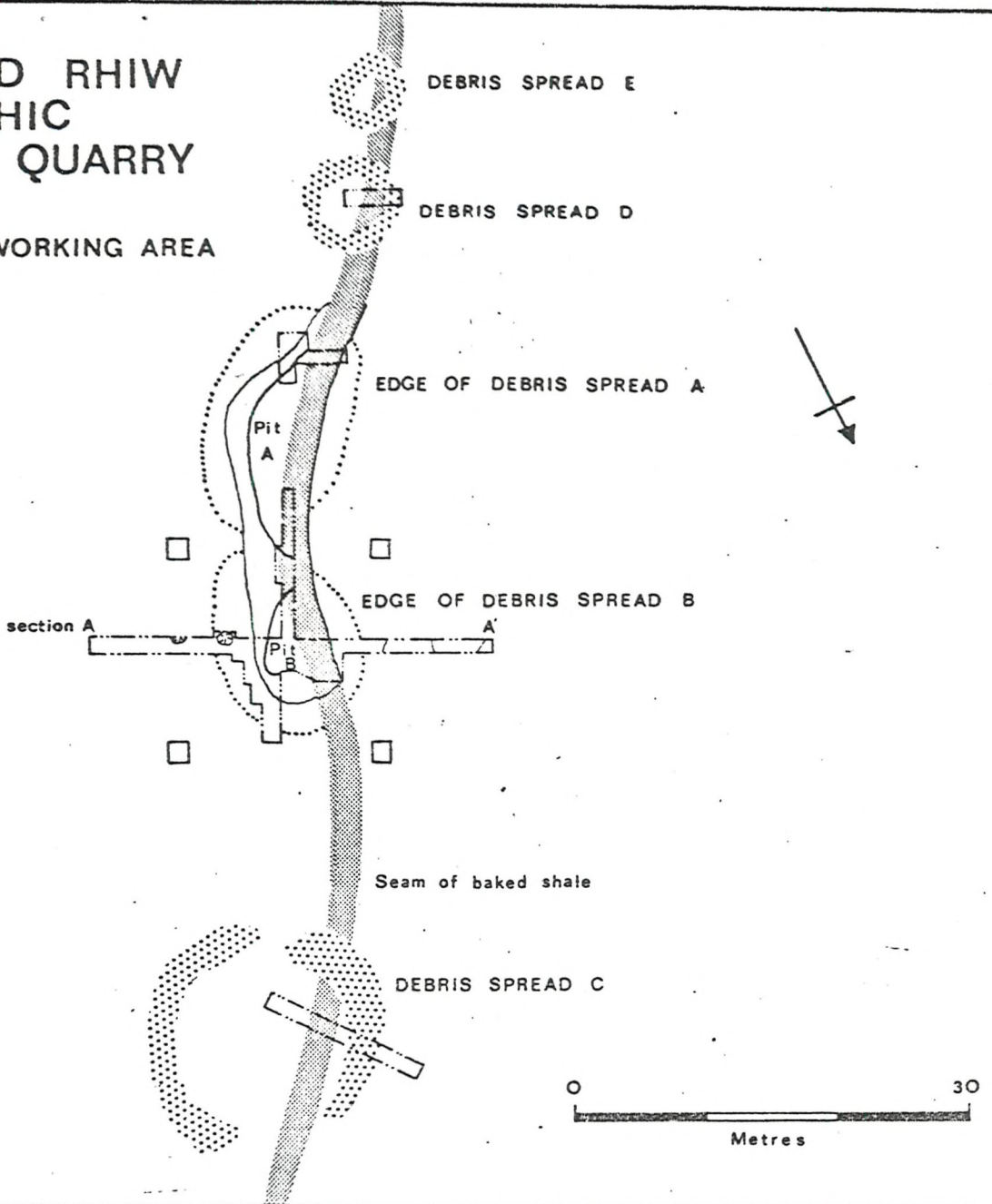


FIGURE 70. Sources of "Grouped rocks" within the study area.

MYNYDD RHIW NEOLITHIC STONE QUARRY

PLAN OF WORKING AREA



SECTION THROUGH QUARRY PIT B

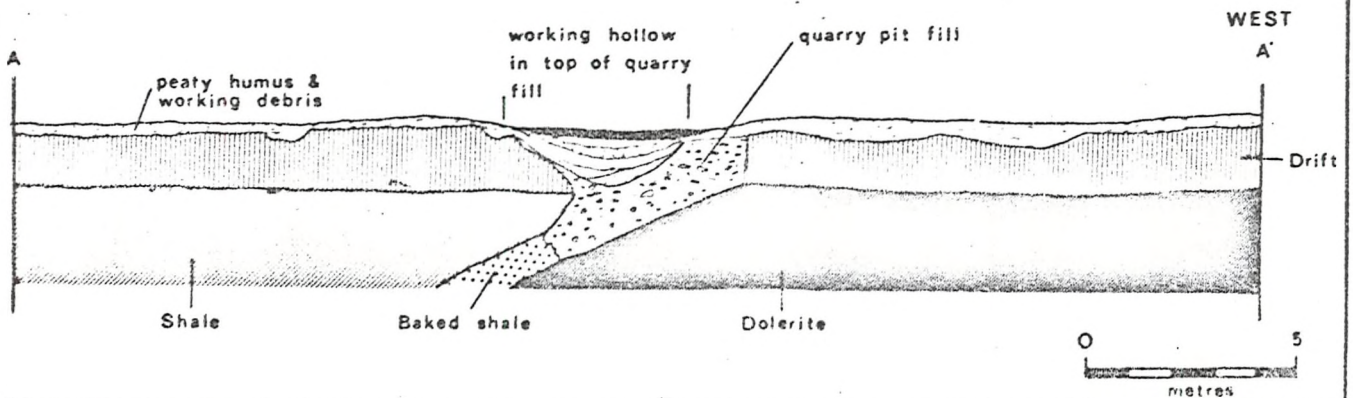
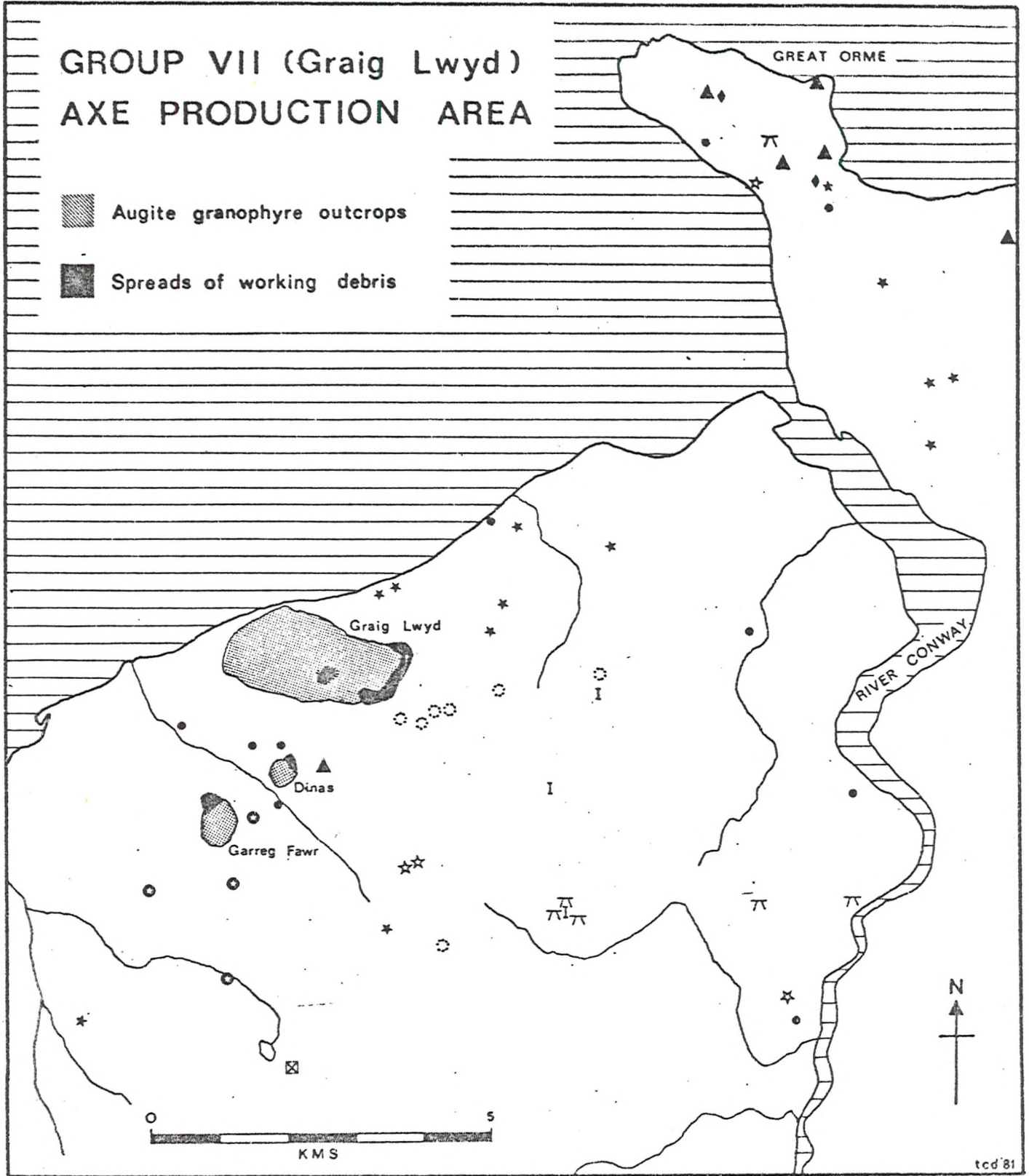


FIGURE 71. Neolithic quarrying at Mynydd Rhiw (GWD 41), after Houlder 1961).



- | | |
|------------------------|--|
| ★ Stone axe | π Megalithic tomb |
| ☆ Rough-out | ▲ Settlement (incl. caves & debris scatters) |
| • Perforated implement | ○ Stone circle |
| ⊙ "Arrow-stone" | I Standing stone |
| ♦ Stray find | ⊠ Beaker grave |

FIGURE 72. Distribution of recorded neolithic evidence in the vicinity of the Group VII (Graig Lwyd) rock outcrops.

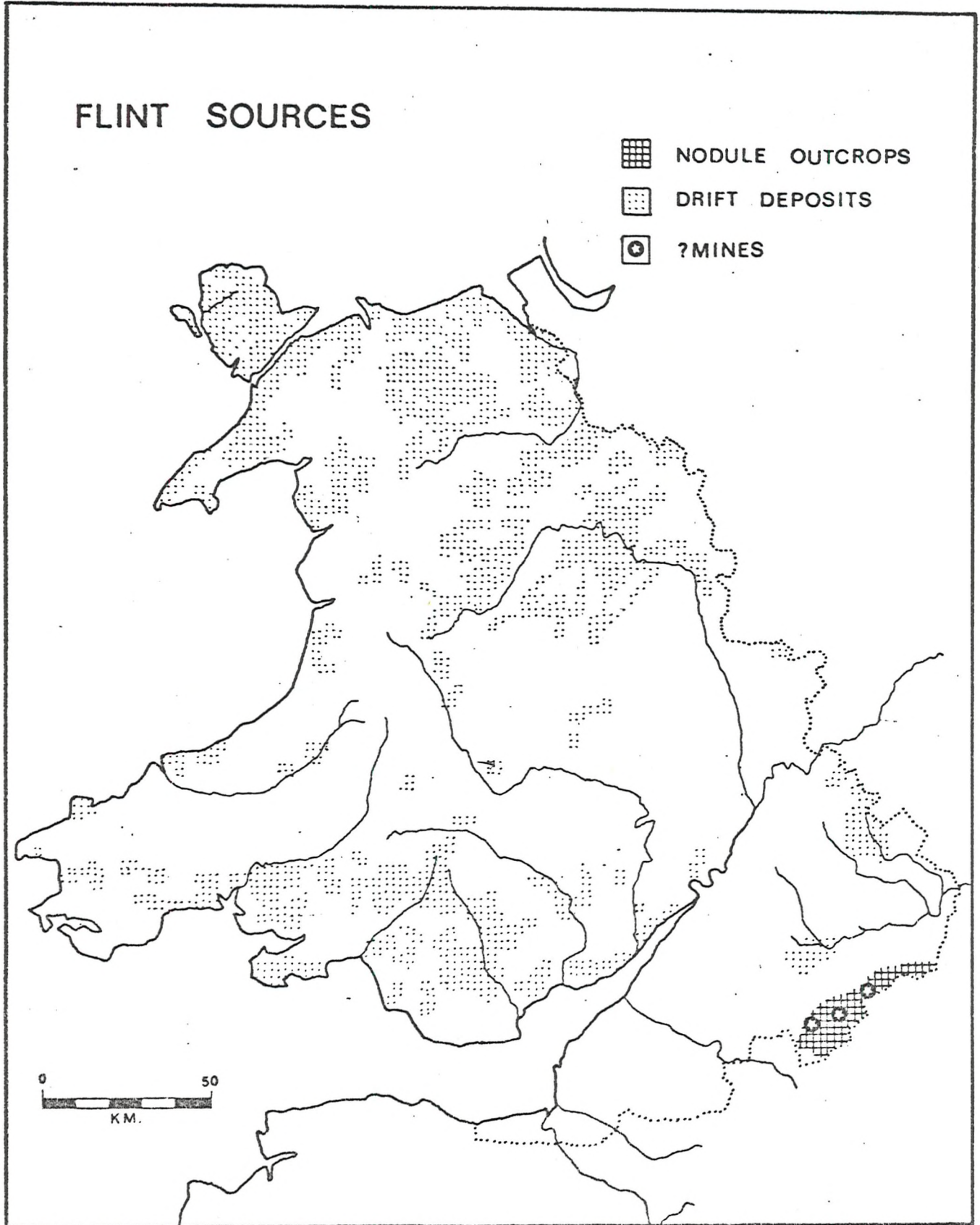


FIGURE 73. Distribution of flint resources in the study area.

AXE POLISHING EQUIPMENT.

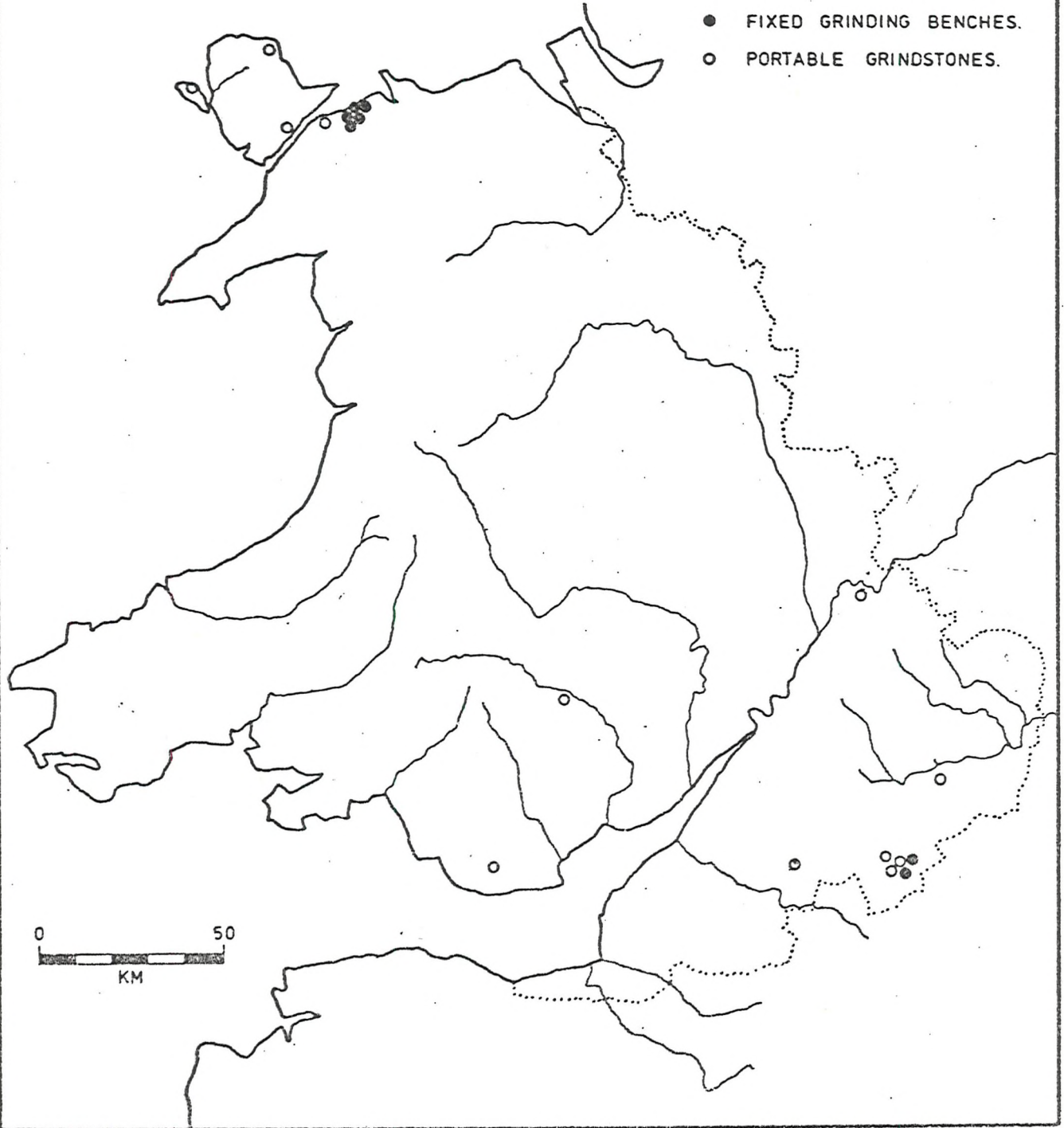


FIGURE 74. Distribution of equipment associated with axe polishing.

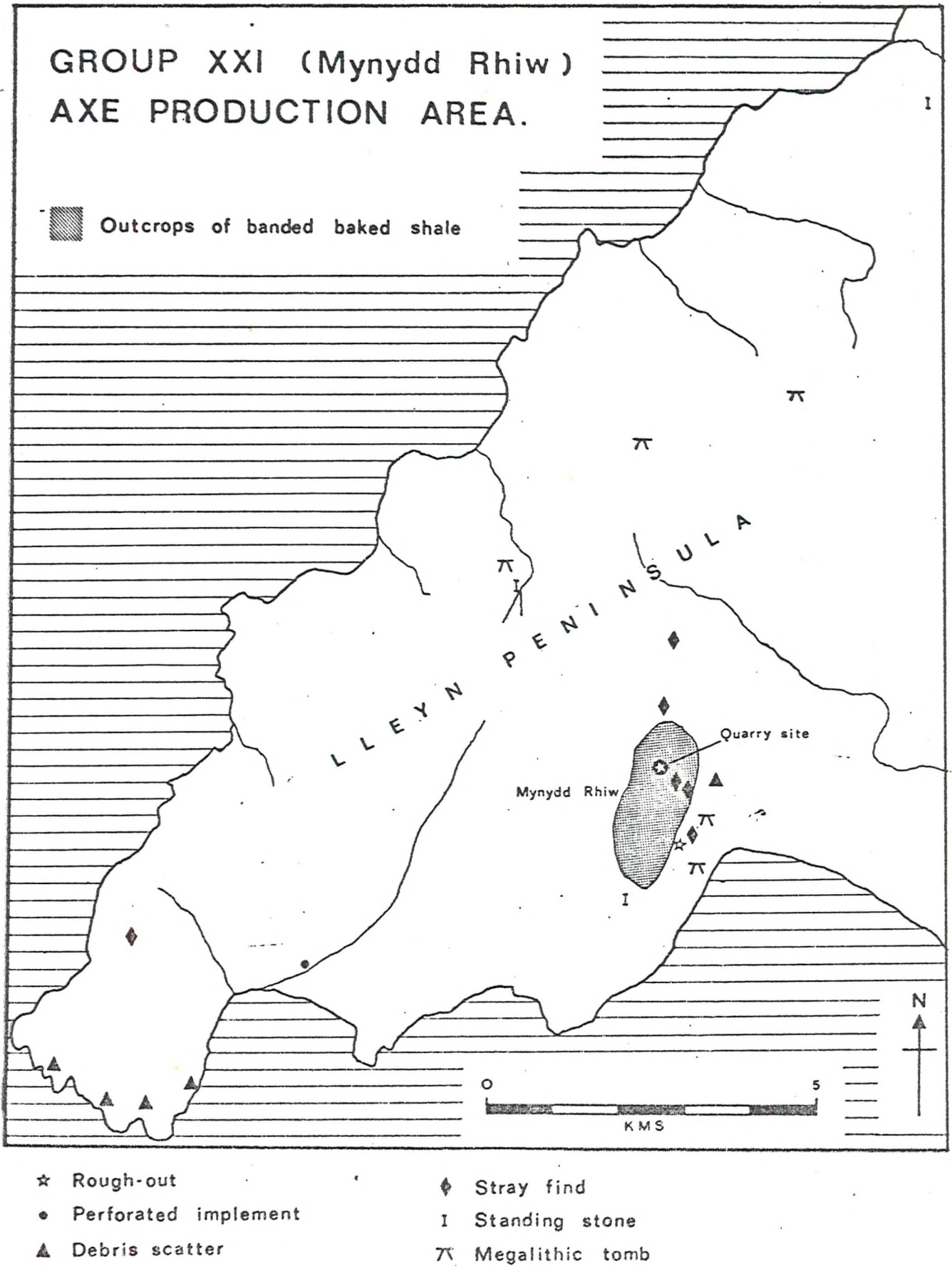


FIGURE 75. Distribution of recorded neolithic evidence in the vicinity of Group XXI (Mynydd Rhiw) rock outcrops.

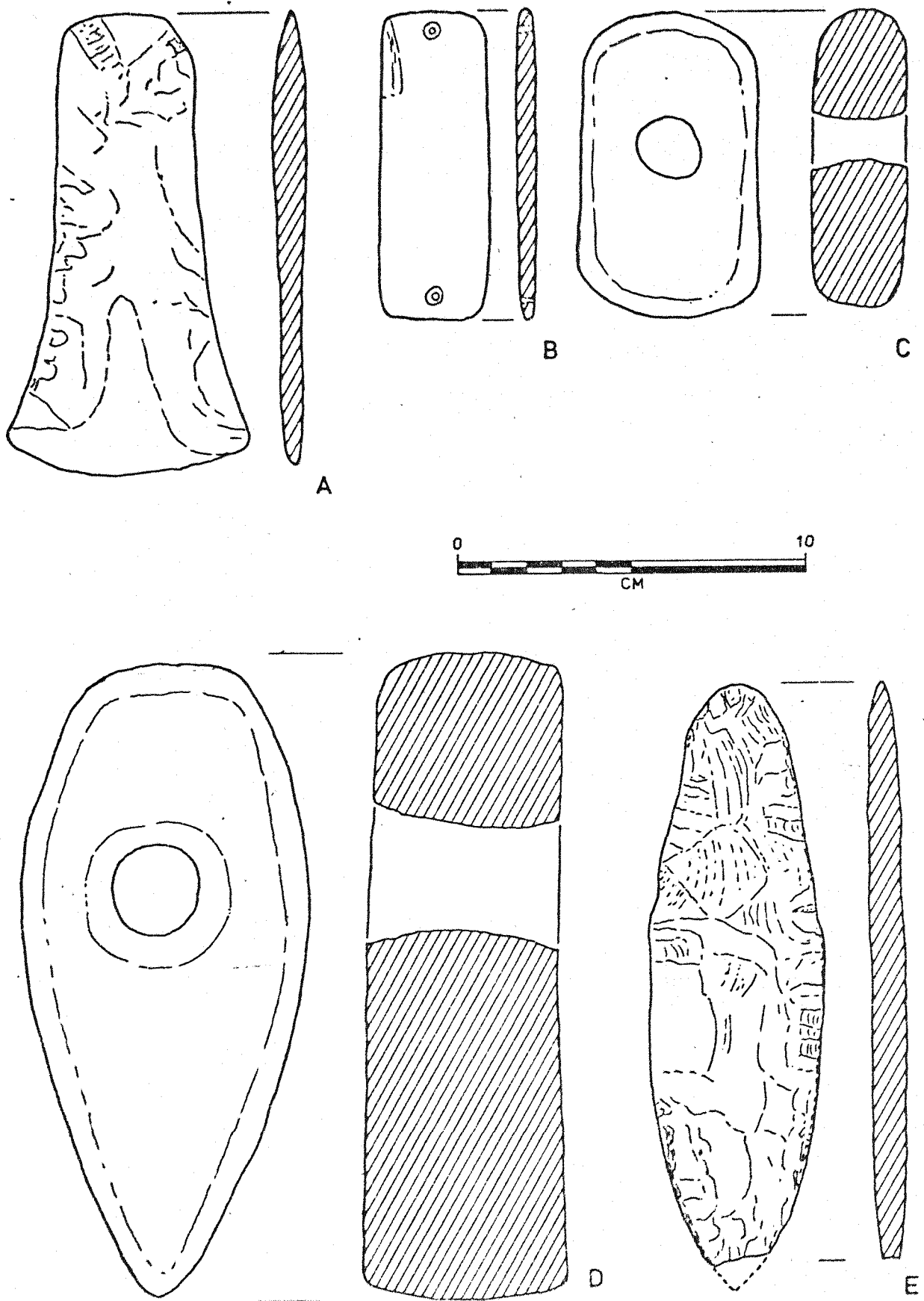


FIGURE 76. Late neolithic "new types" of stone and flint items of tertiary manufacture. (See Appendix VII for key to lettering).

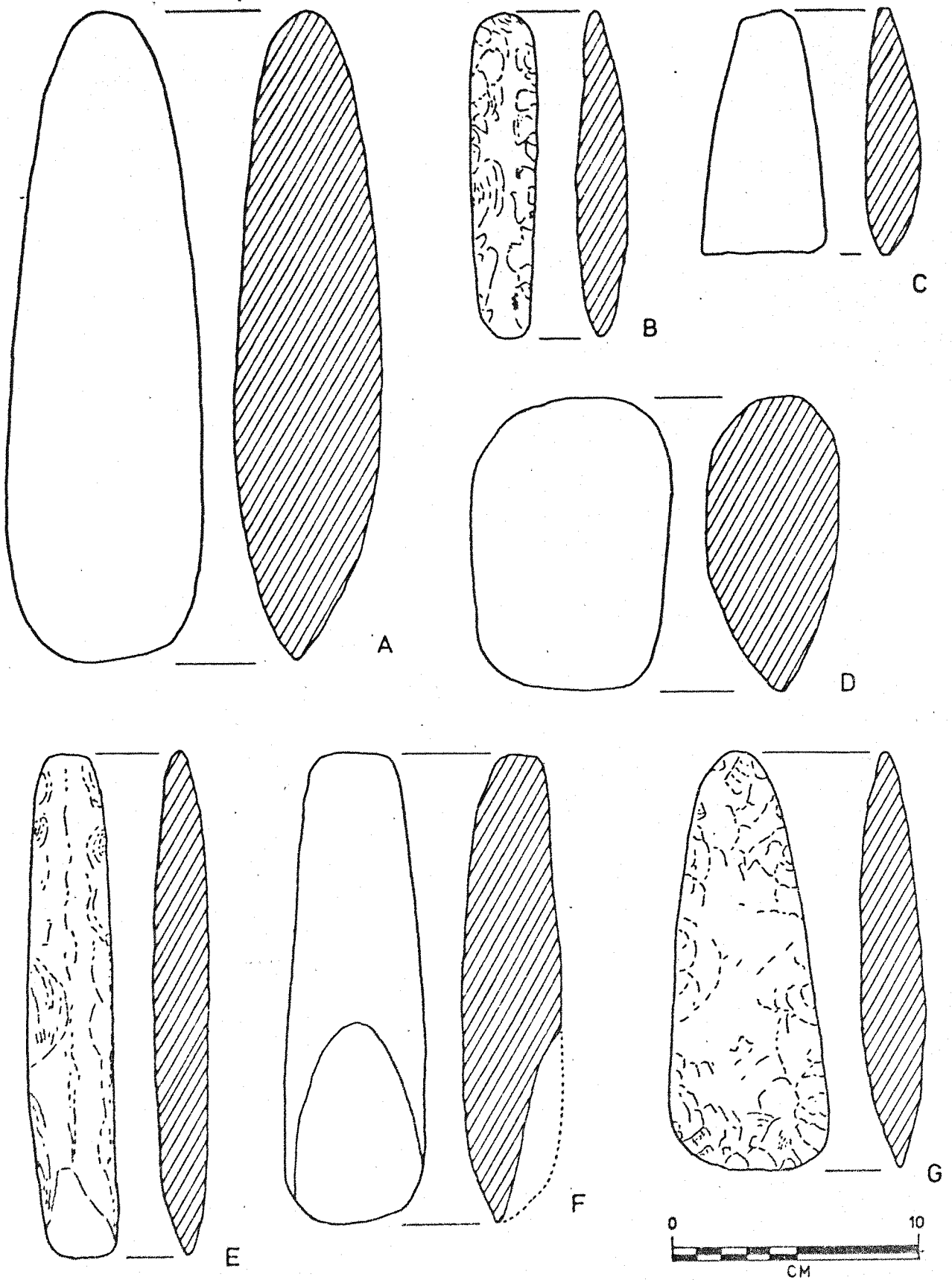


FIGURE 77. Typology of neolithic woodworking tools. (See pages 120-122 for key to lettering).

METAL ORE RESOURCES.

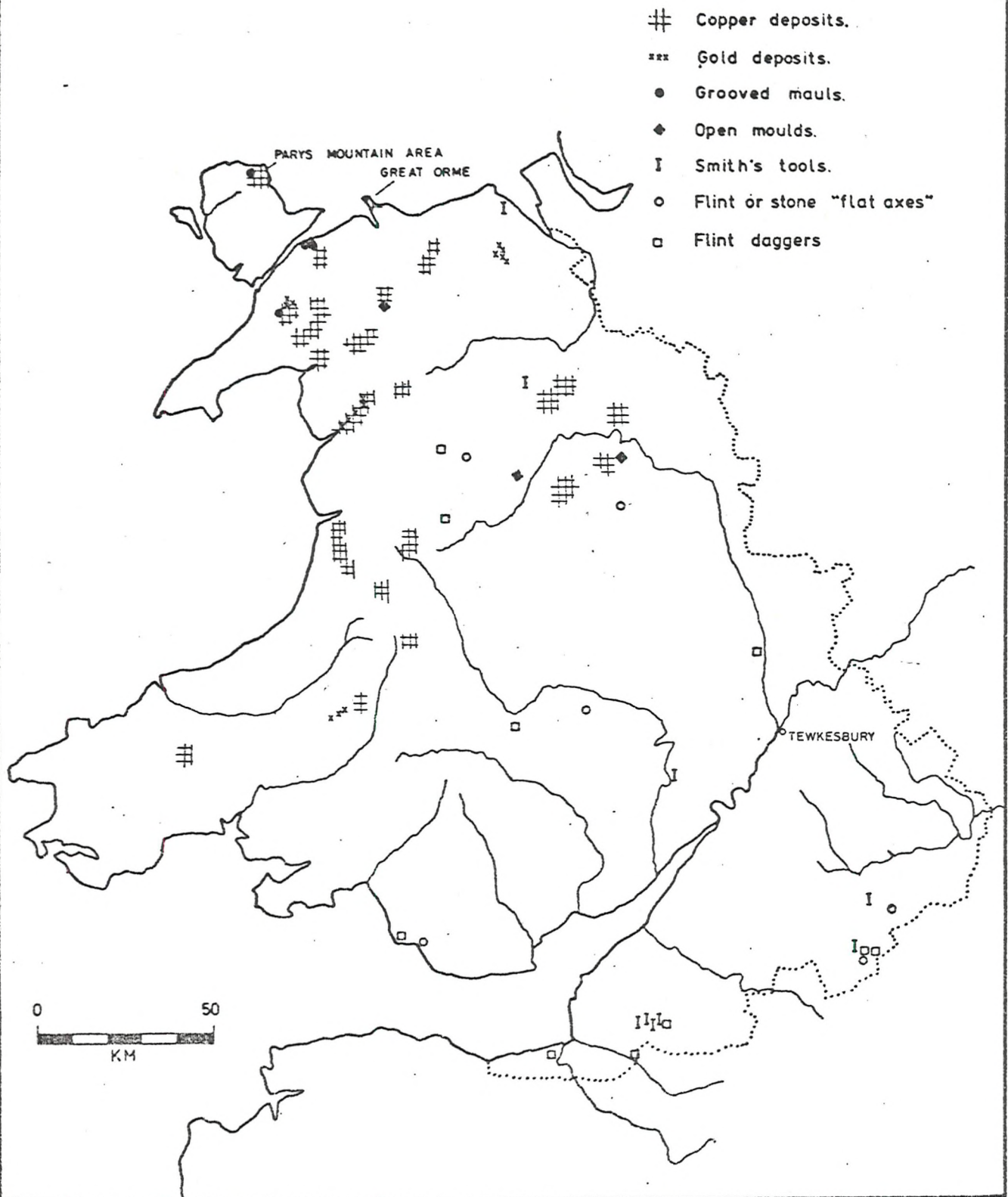


FIGURE 78. Distribution of metal ores and late neolithic and beaker phase metalworking equipment.

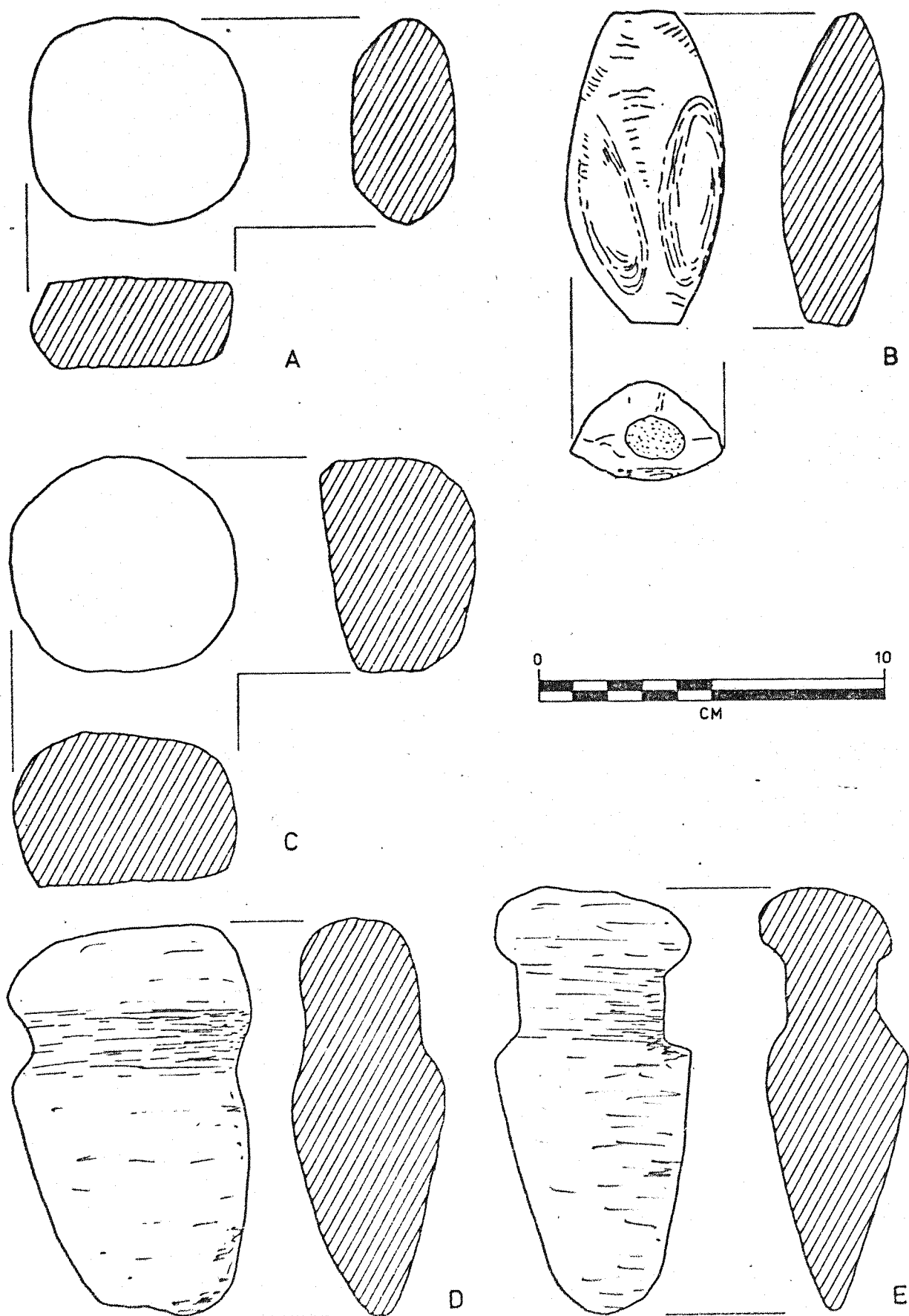


FIGURE 79. Metal working equipment. (See Appendix VII for key to lettering).

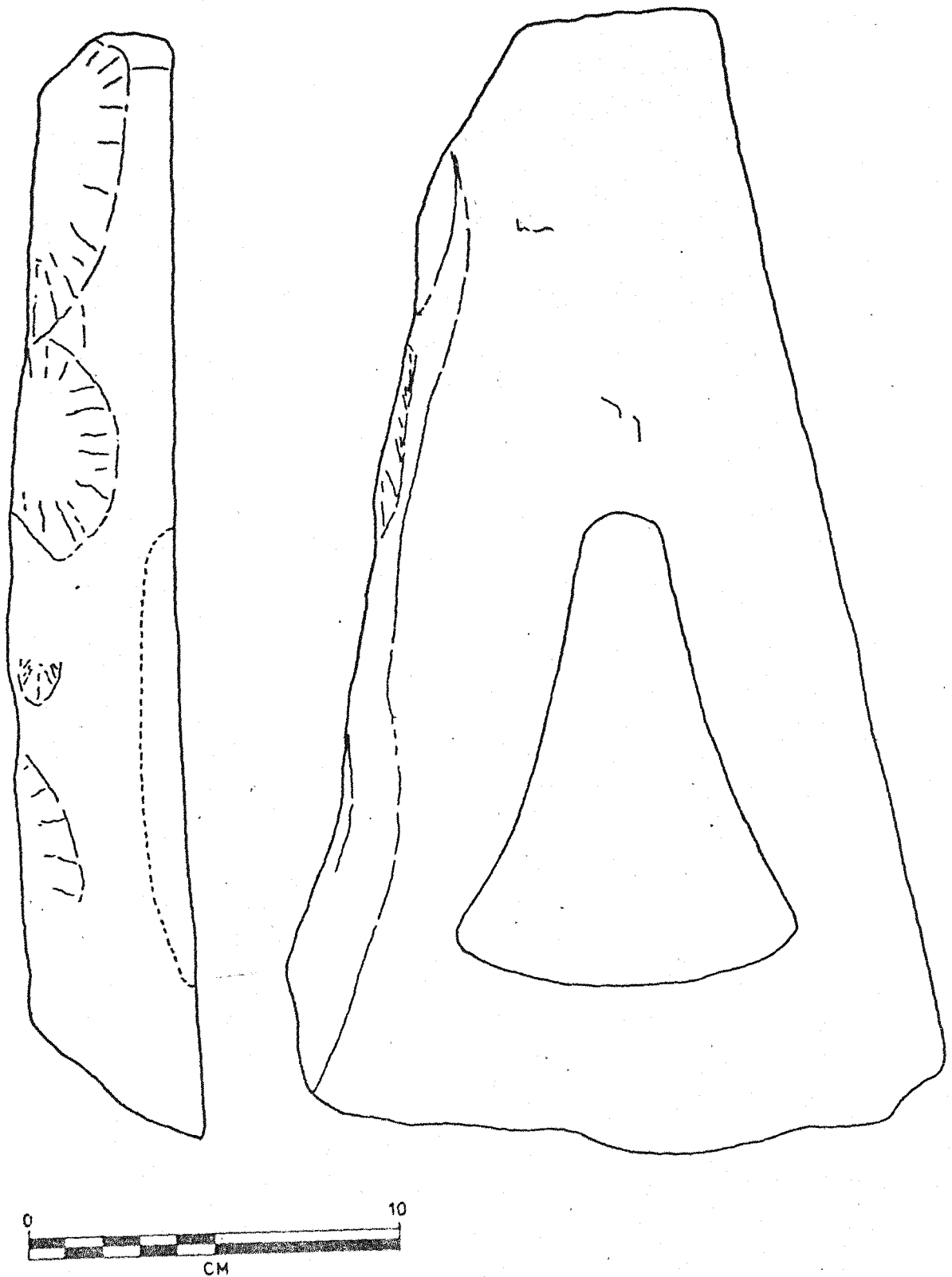


FIGURE 80. Stone mould for early type flat axe from Bulch-y-maen (GWD 290)

MOUNT PLEASANT PHASE METALWORK

	<u>graves</u>	<u>stray finds</u>
Daggers	○	●
Axes	□	■
Awls	I	!
Halberds		◆
Other	★	☆

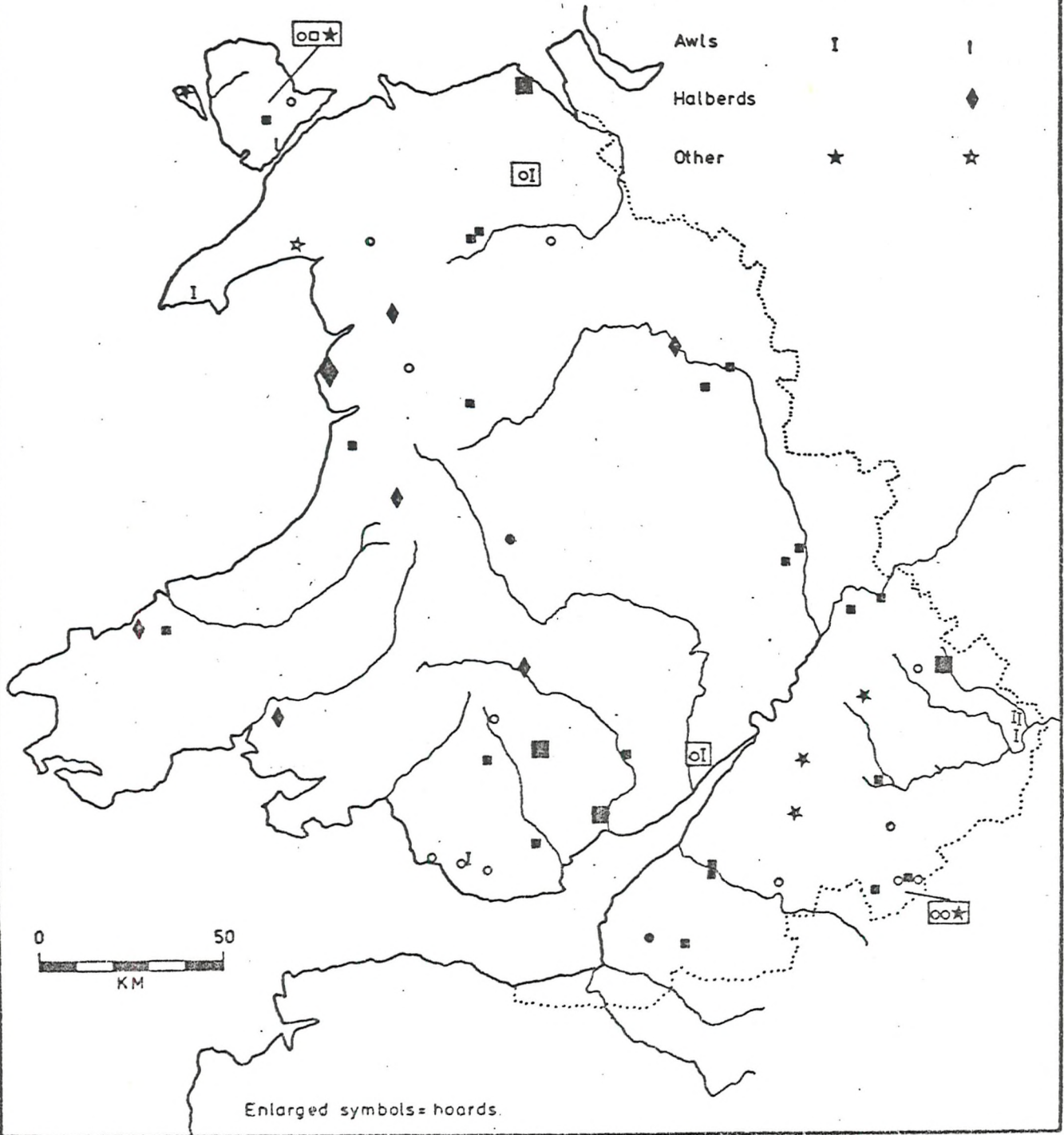


FIGURE 81. Distribution of metal objects assignable to the Mount Pleasant phase of metalworking.

OVERTON PHASE METALWORK

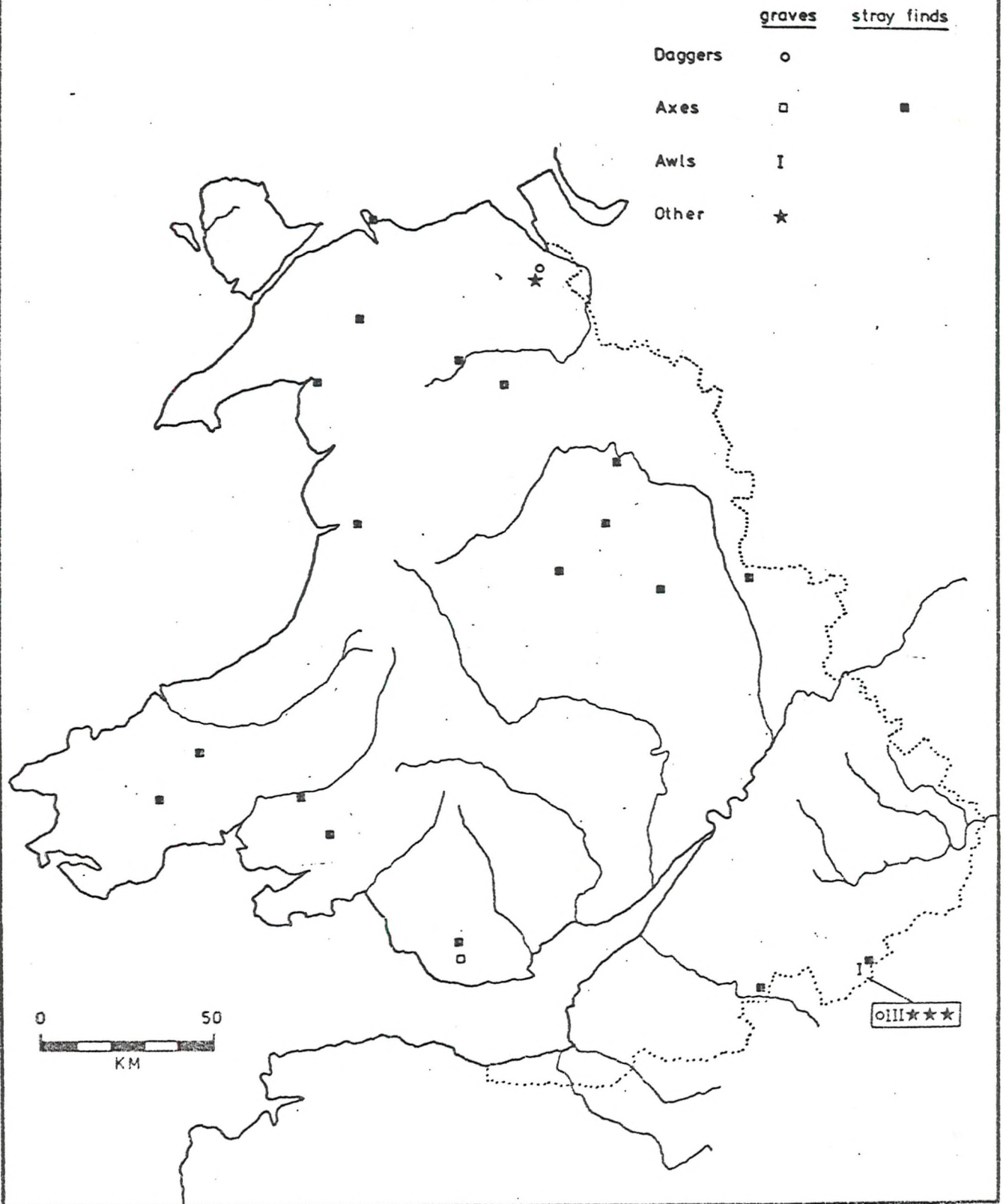


FIGURE 82. Distribution of metal objects assignable to the Overton phase of metalworking.

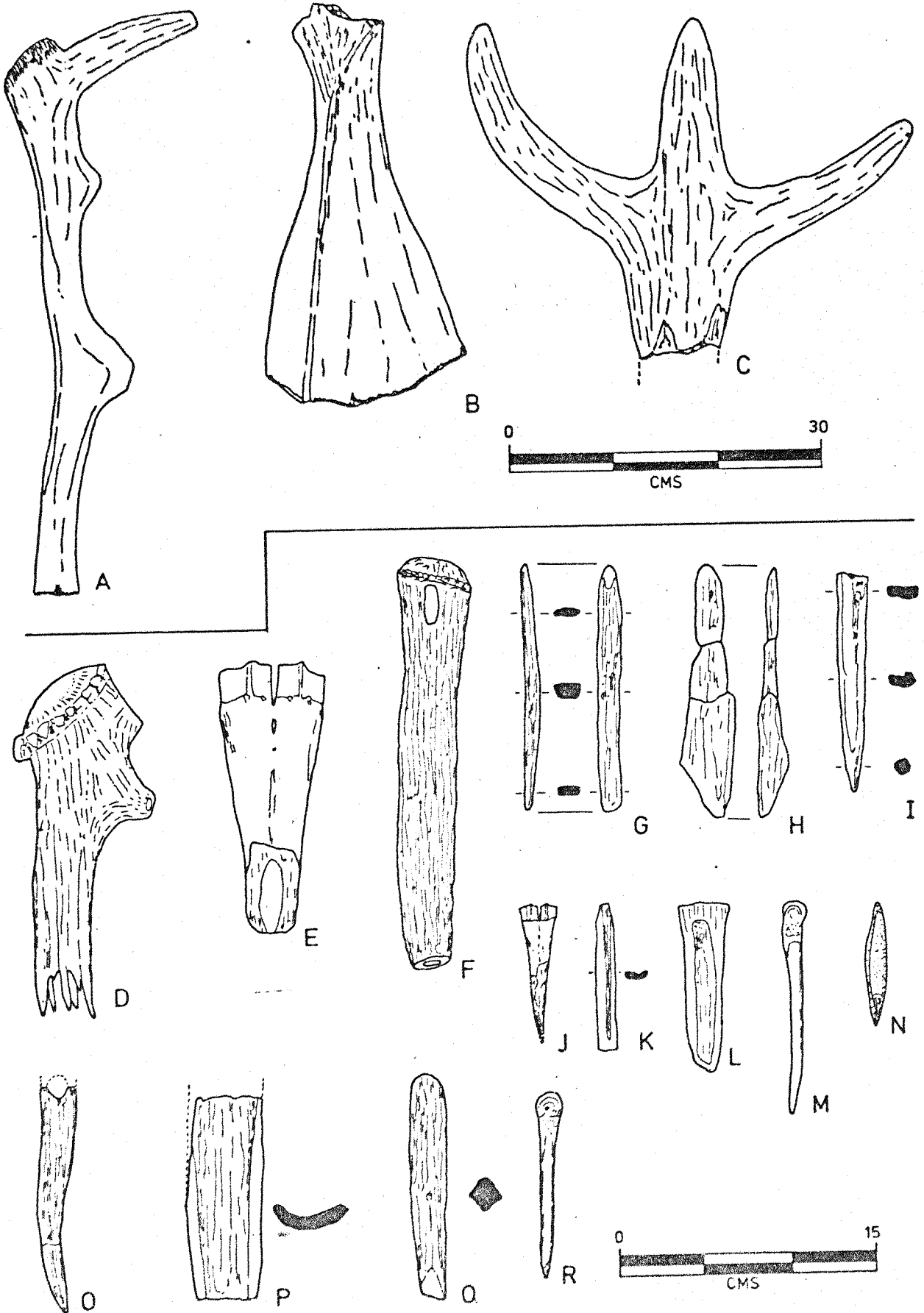


FIGURE 83. Bone implements of primary and secondary manufacture.
(See Table 30 for key to lettering)

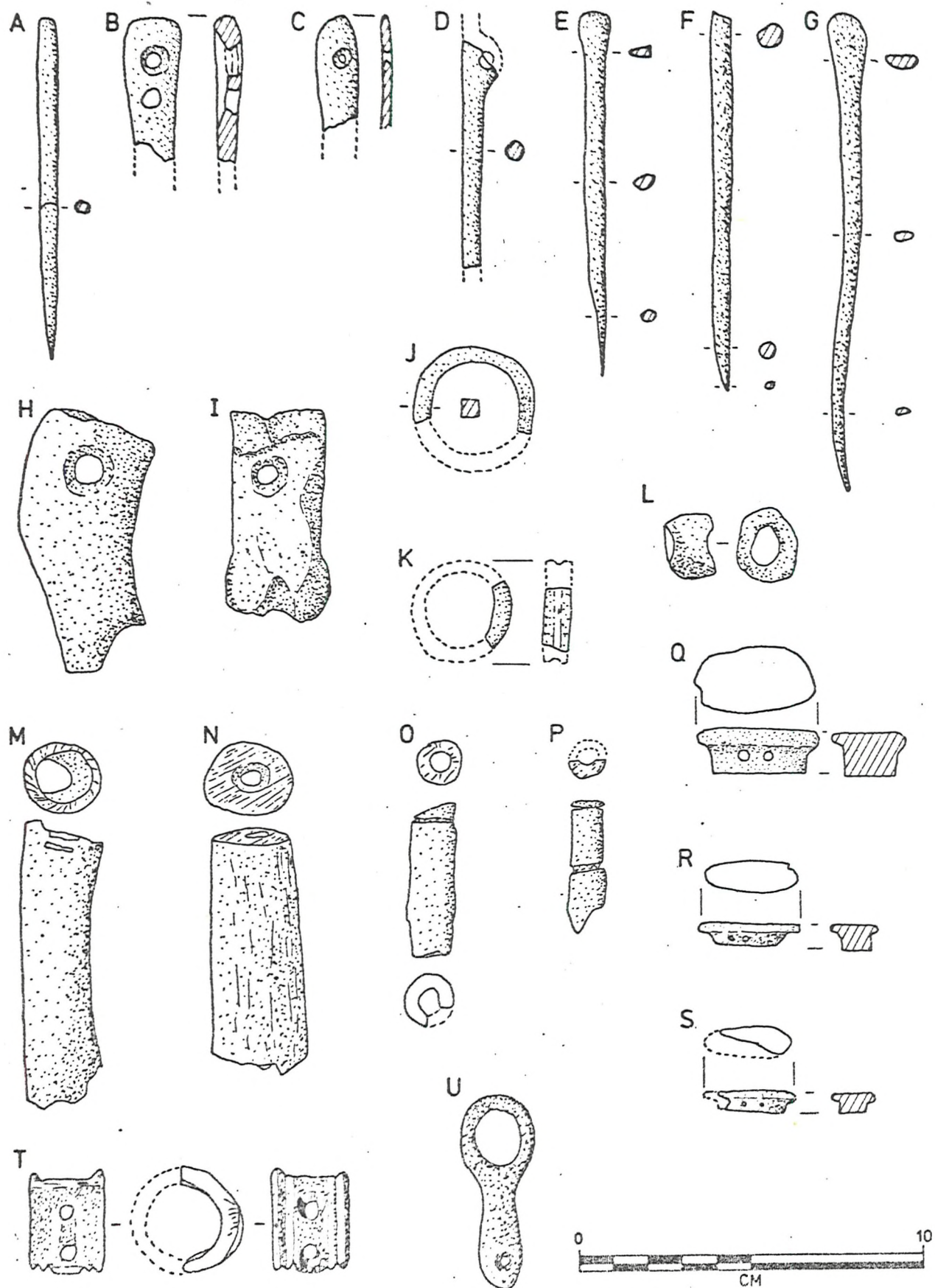


FIGURE 84. Bone items of tertiary manufacture. (See Table 30 for key to lettering).

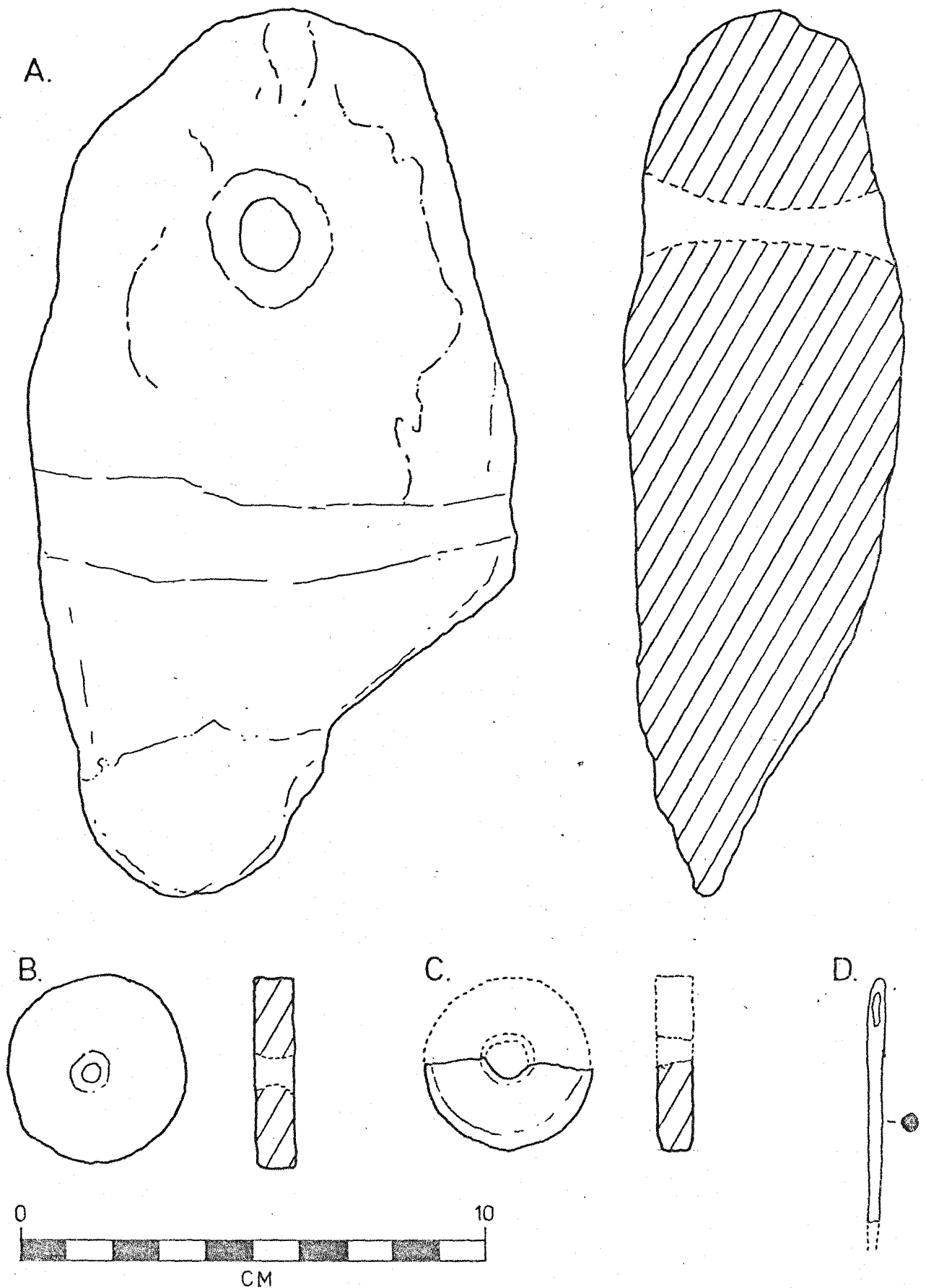


FIGURE 85. Equipment requirements for textile manufacture. (See 6.9 for key to lettering).

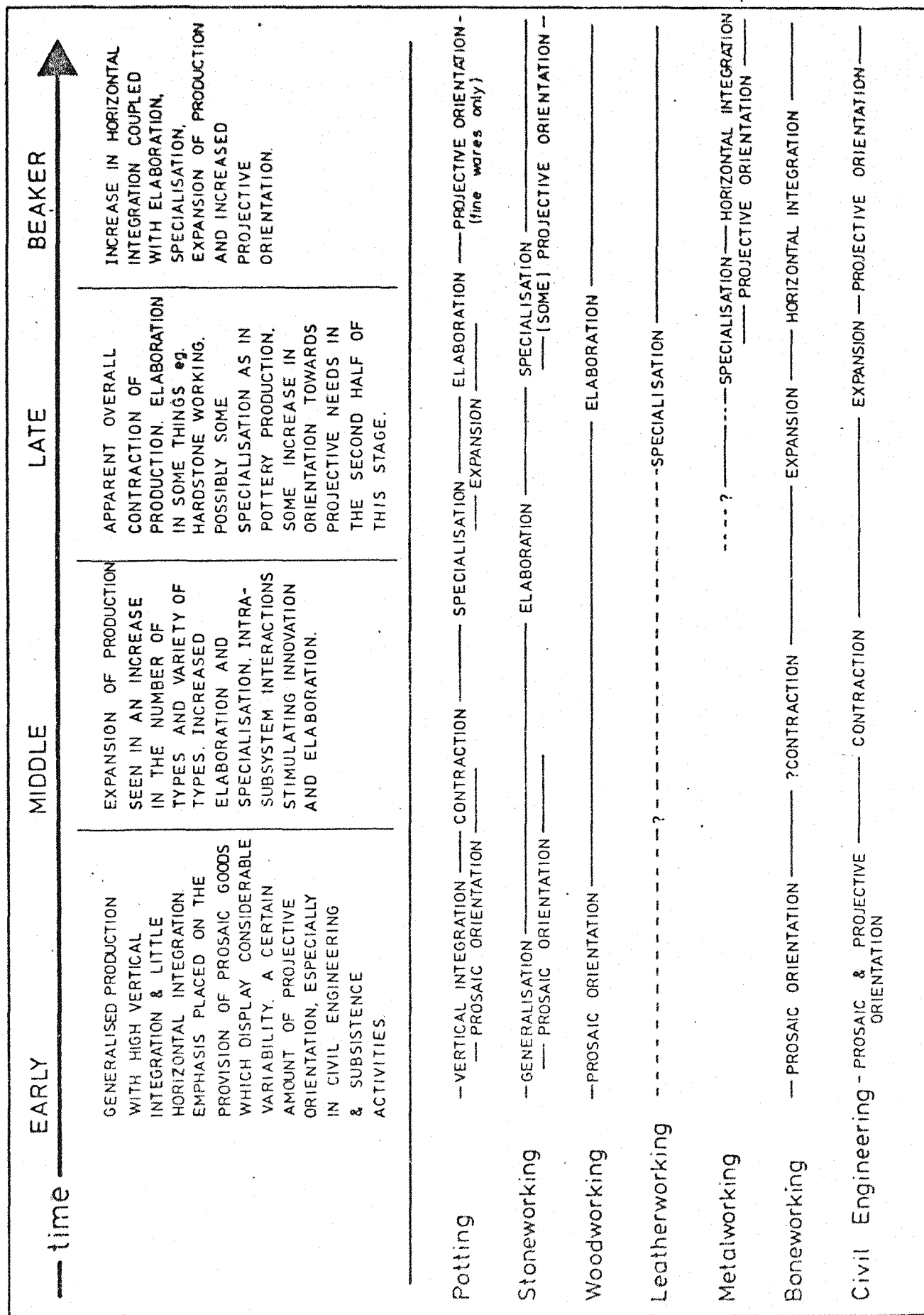


FIGURE 86. Summary of economic subsystem trajectories.

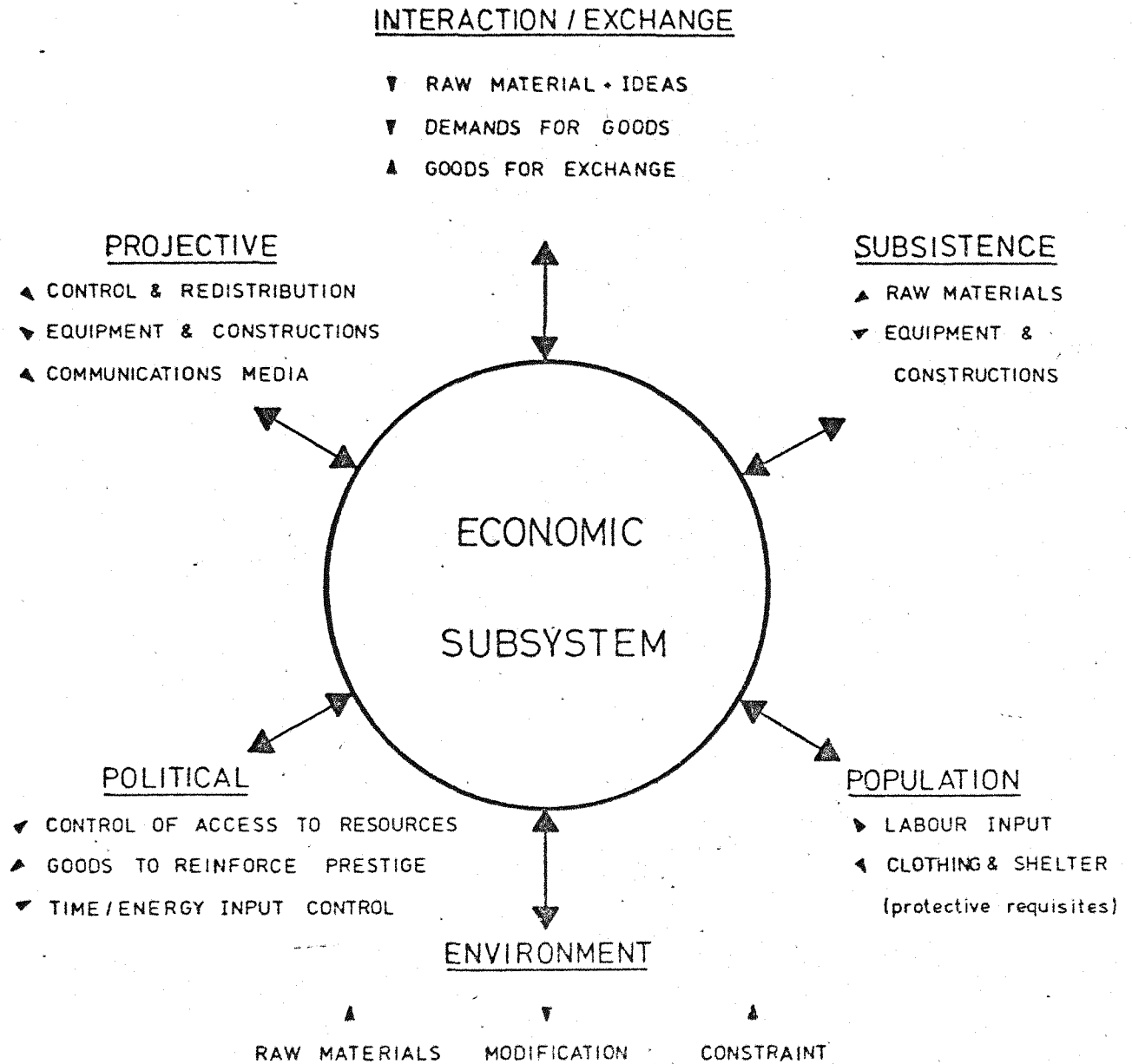


FIGURE 87. Input-output diagram for the economic subsystem.

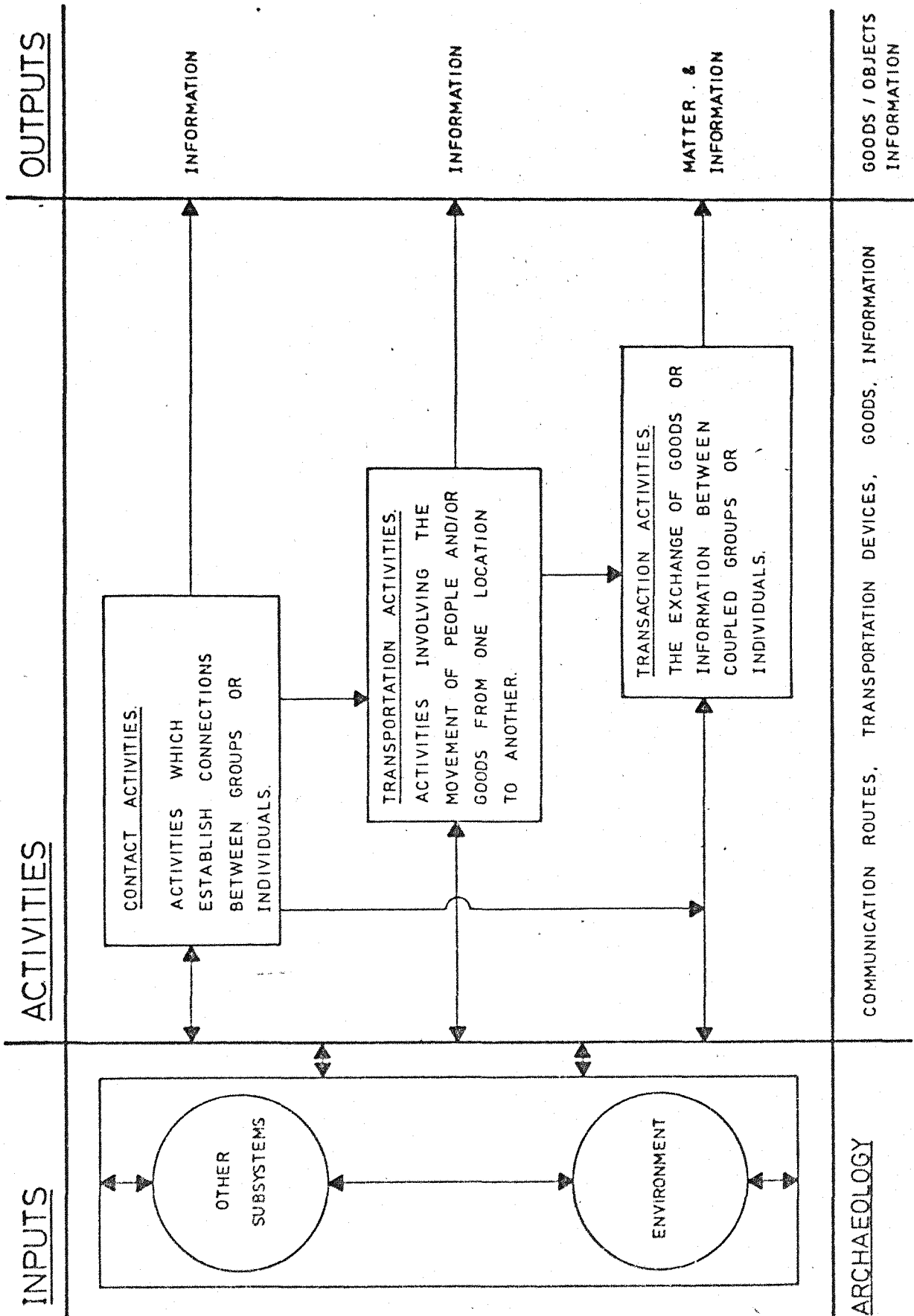


FIGURE 88. Schematic representation of the internal workings of the exchange/interaction subsystem.

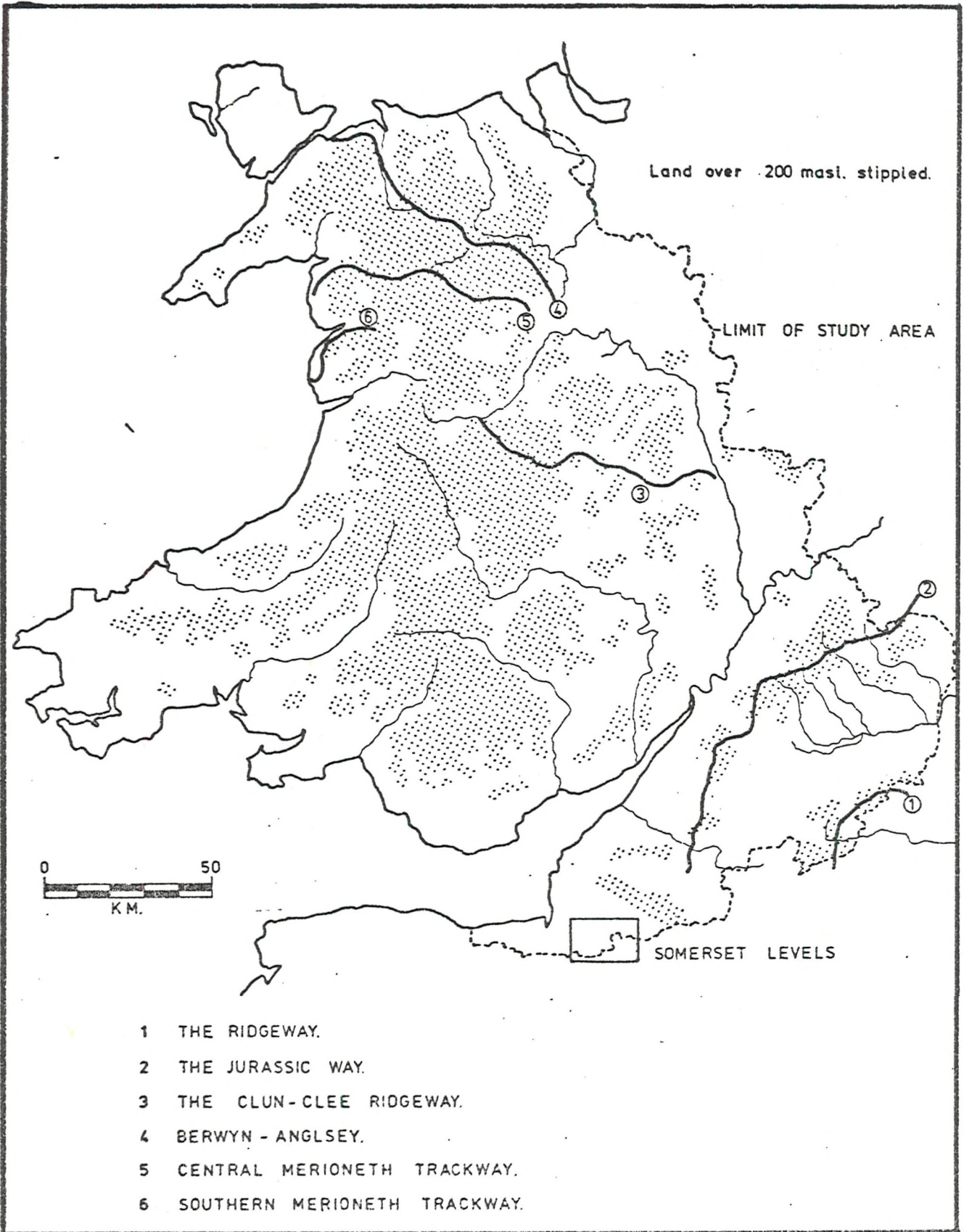


FIGURE 89. Location and lines of putatively neolithic long distance routeways.

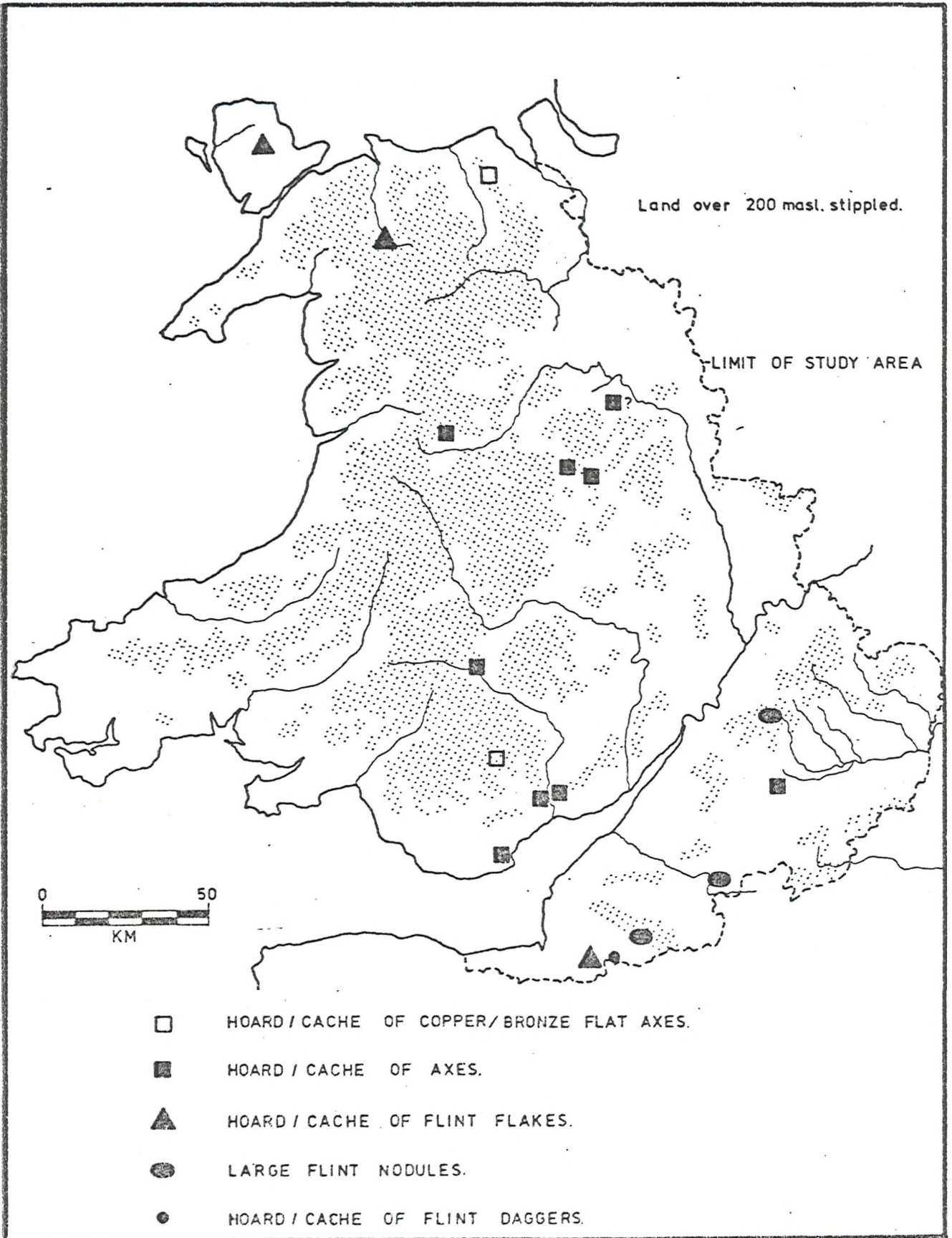


FIGURE 90. Distribution of recorded hoards/caches of neolithic artifacts.

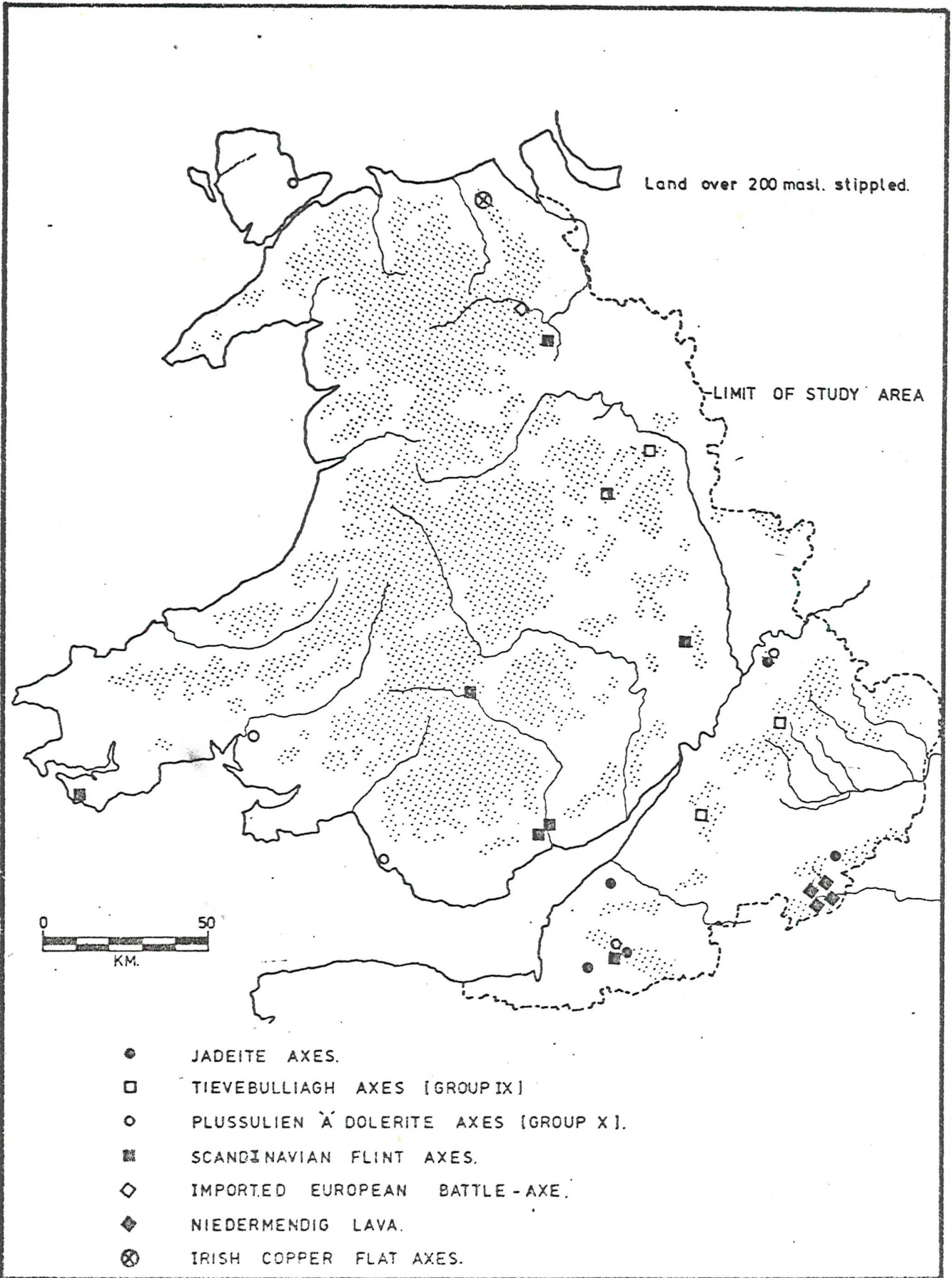


FIGURE 91. Distribution of long distance exchange imports.

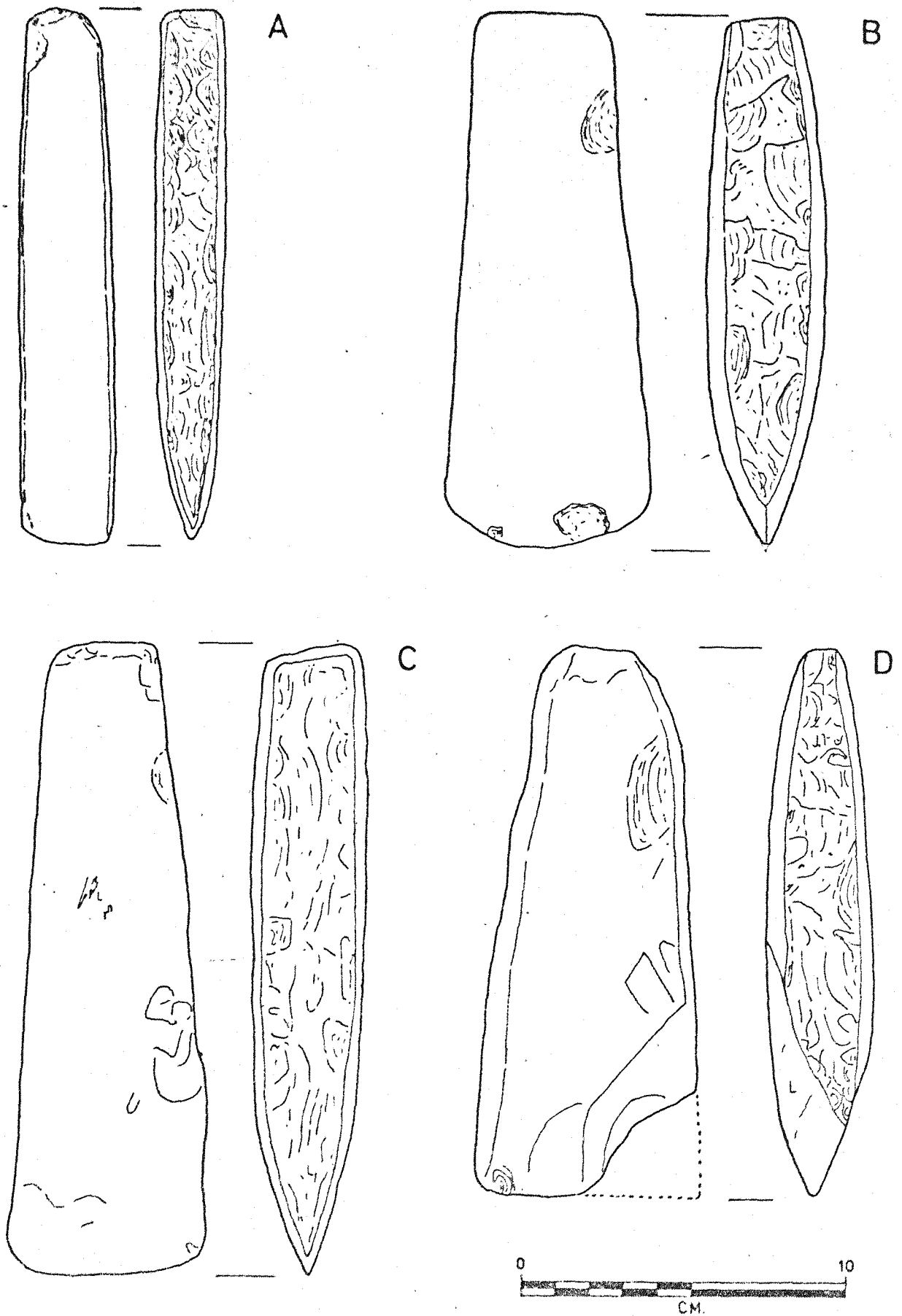


FIGURE 92. Scandinavian flint axes from the study area. (See Appendix VIII, Schedule 3 for key to lettering)

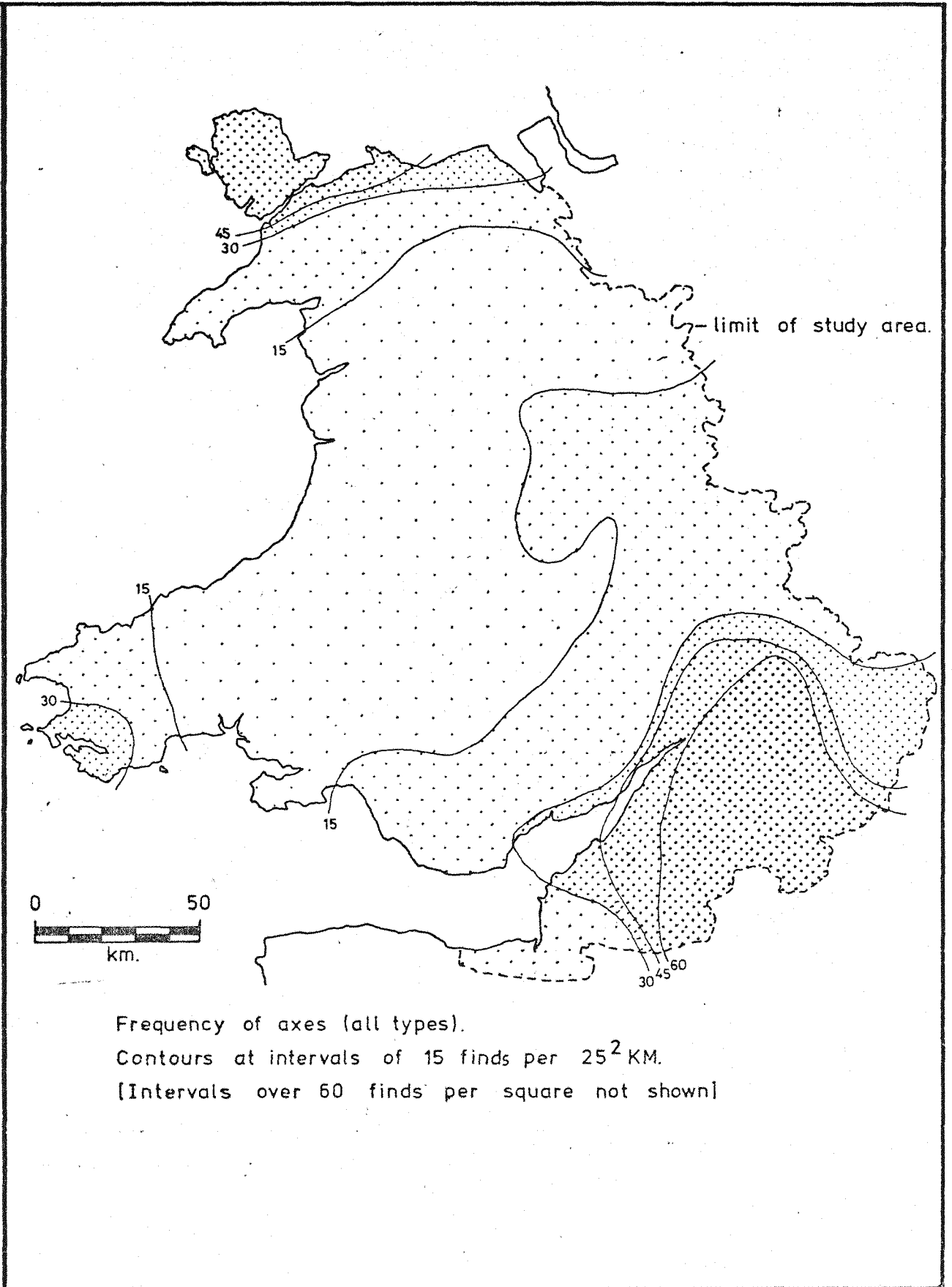


FIGURE 93. Contoured plot of recorded stone and flint axe density.

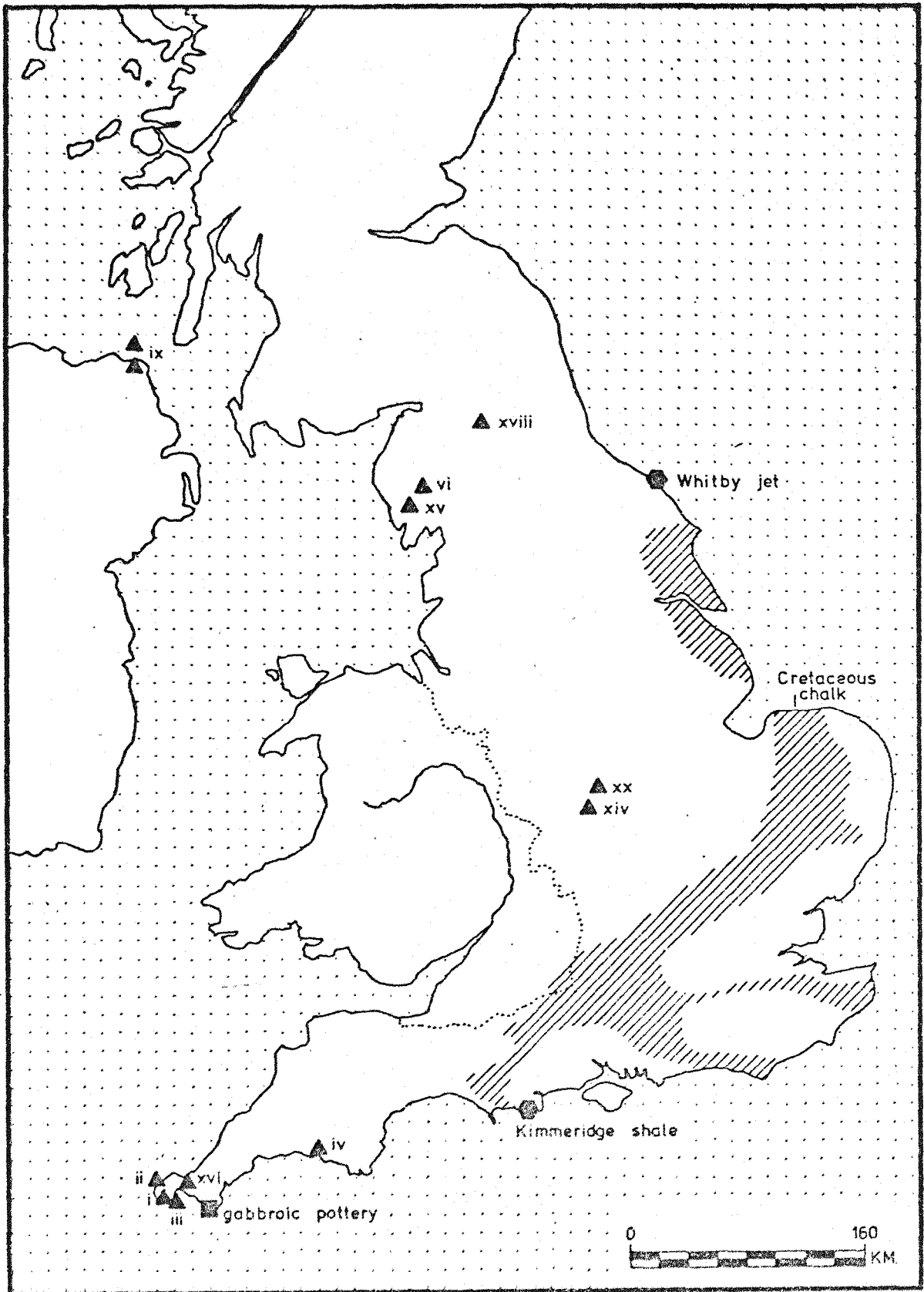


FIGURE 94. Location of established artifact sources outside the study area.

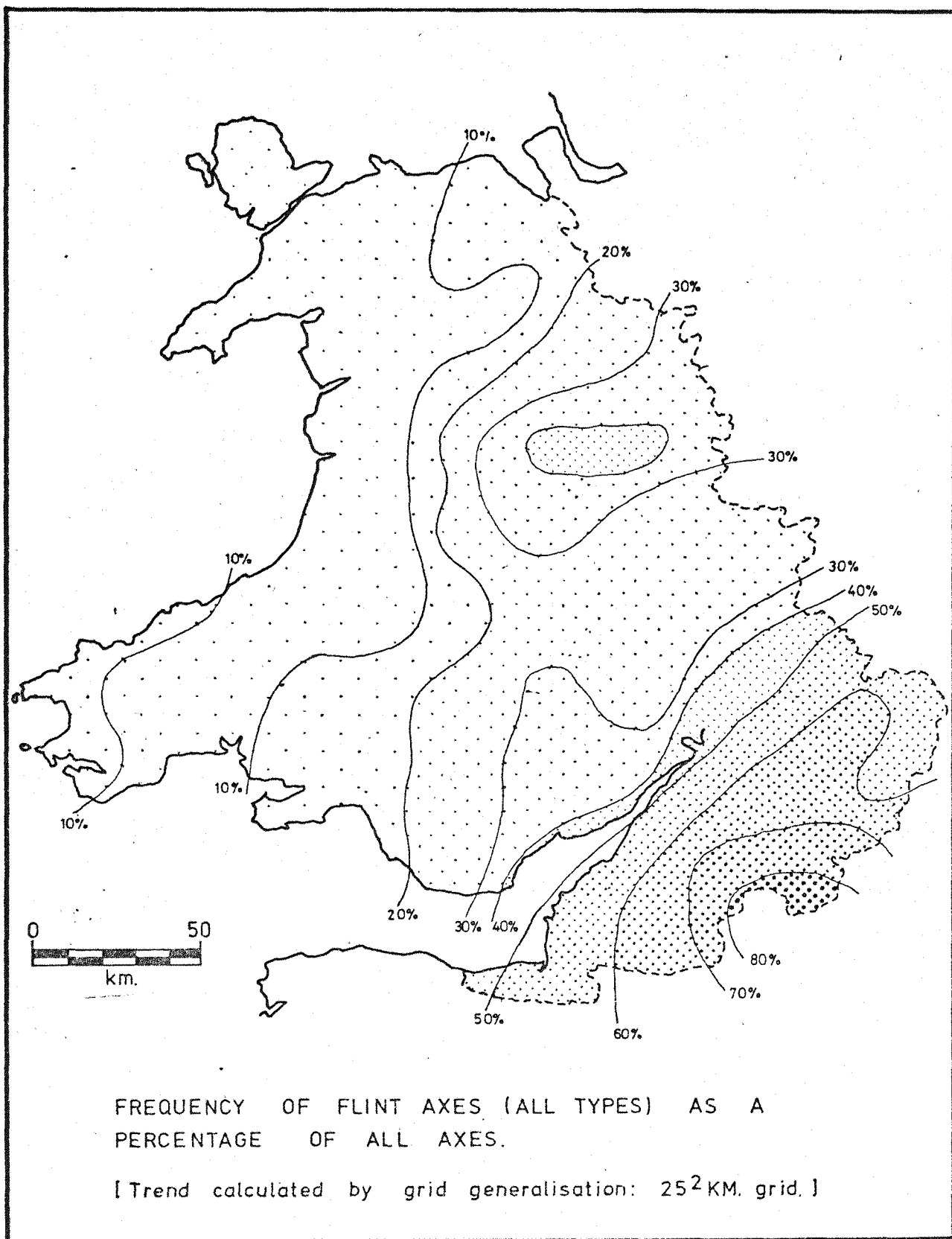


FIGURE 95. Trend surface plot showing the frequency of flint axes.

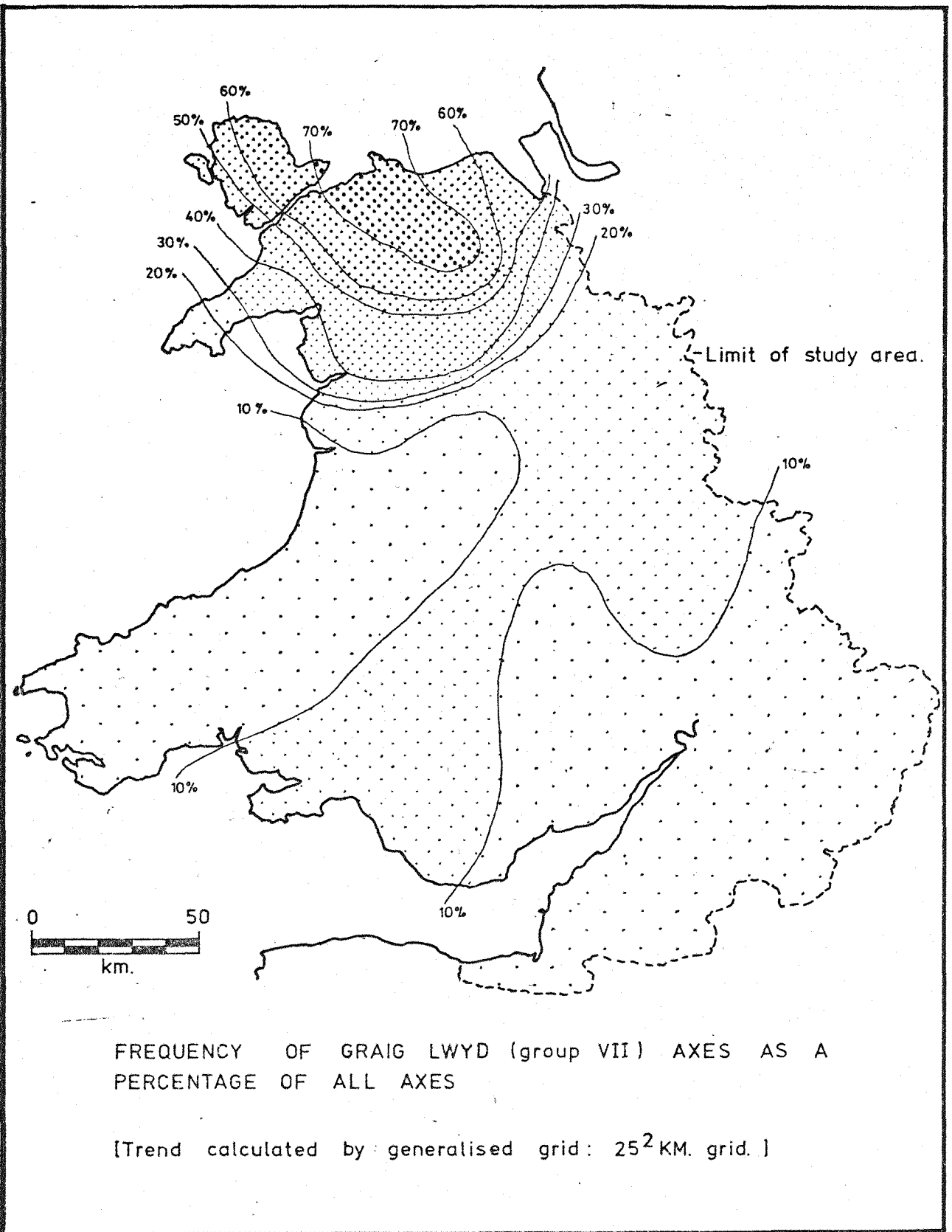


FIGURE 96. Trend surface plot showing the frequency of Graig Lwyd axes.

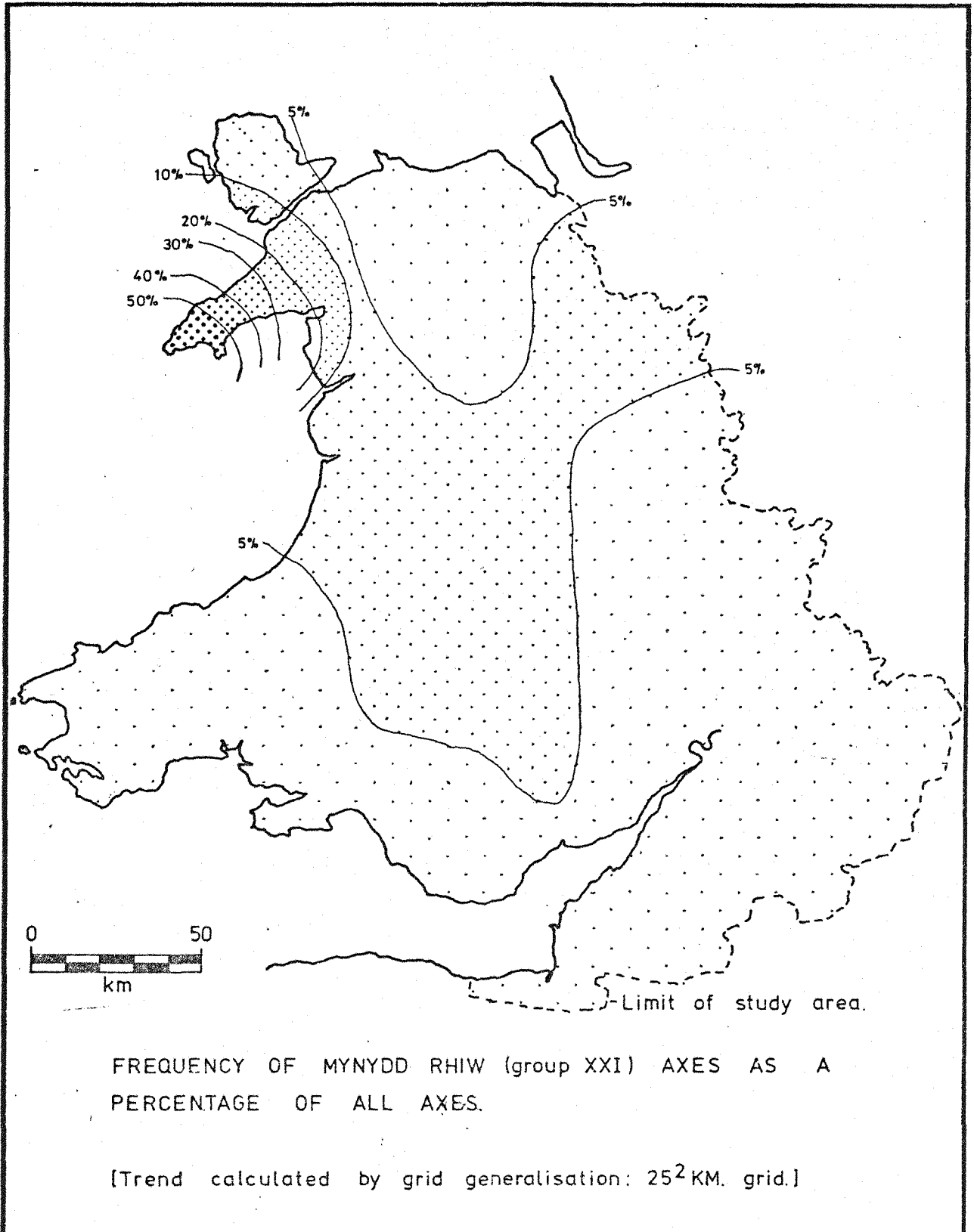


FIGURE 97. Trend surface plot showing the frequency of Mynydd Rhiw products.

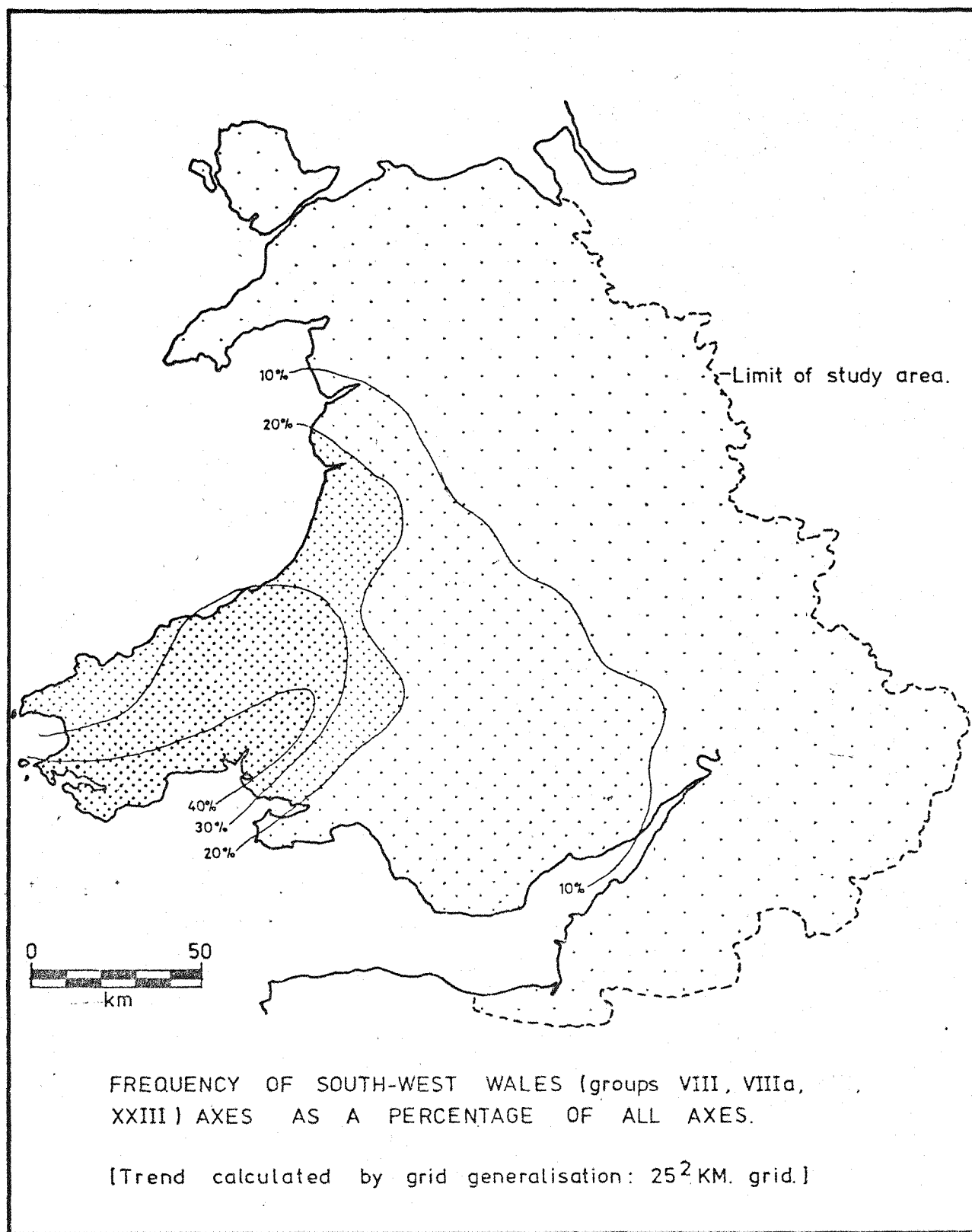


FIGURE 98. Trend surface plot showing the frequency of axes from south-west Wales.

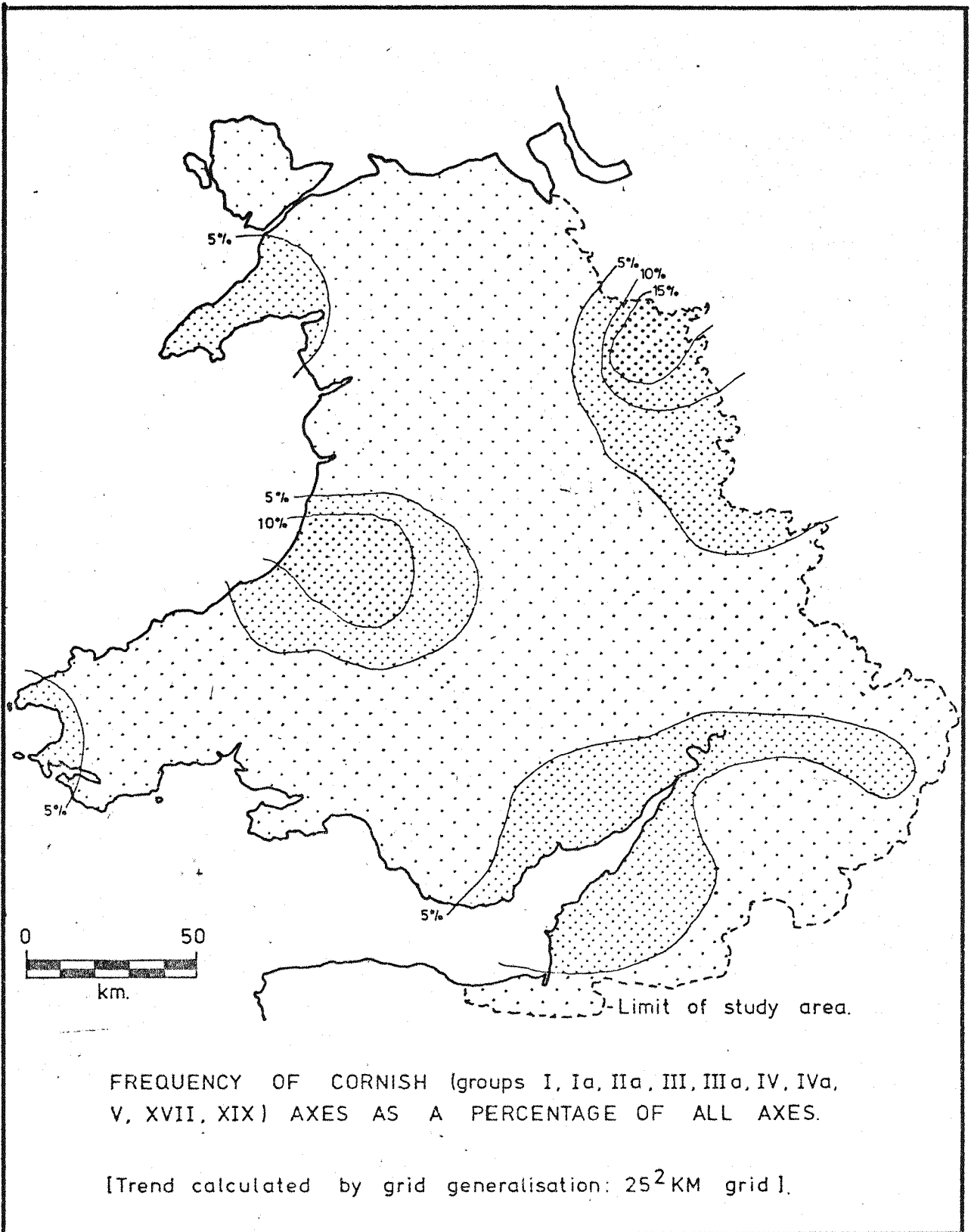


FIGURE 99. Trend surface plot showing the frequency of Cornish axes.

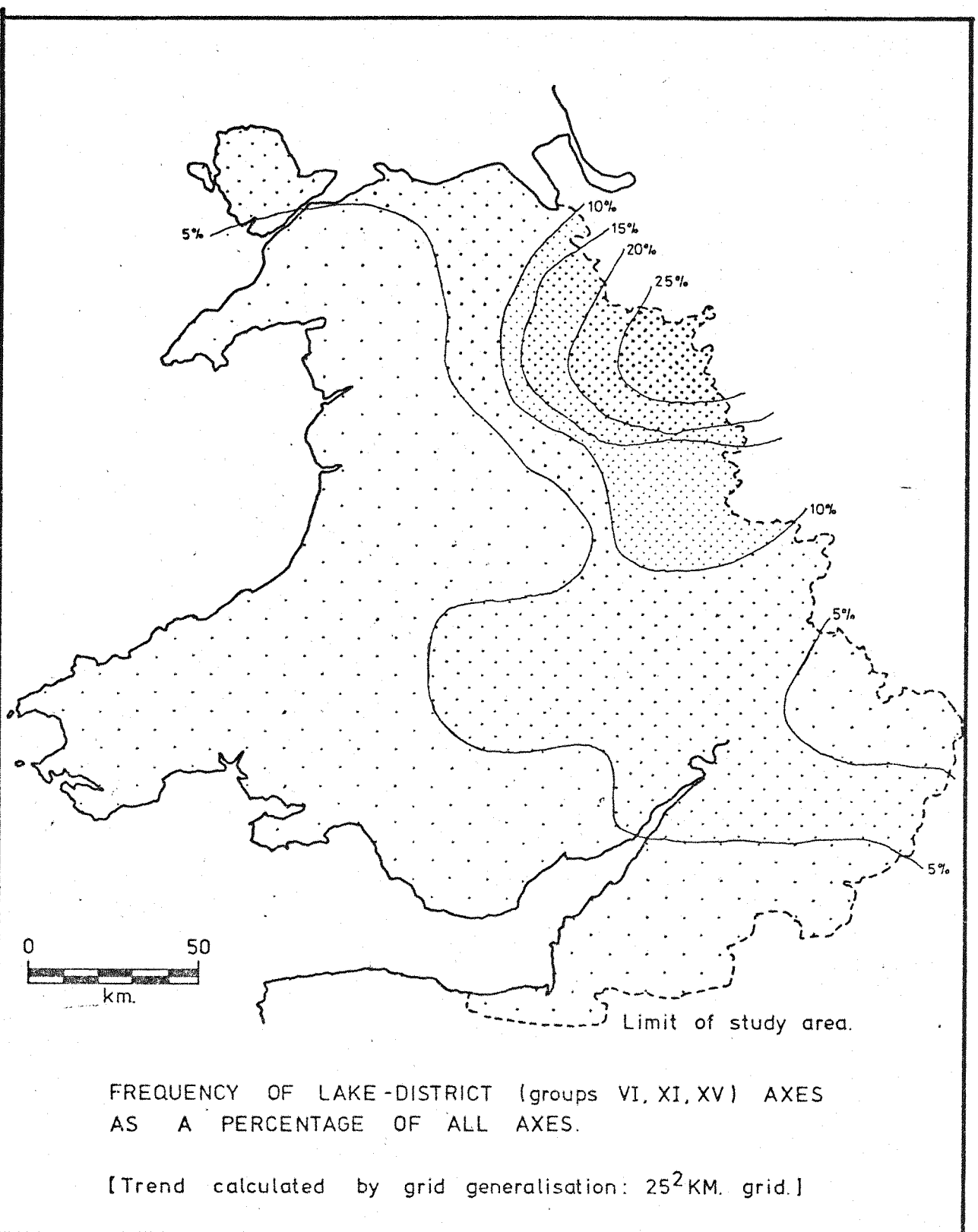


FIGURE 100. Trend surface plot showing the frequency of Lake District axes.

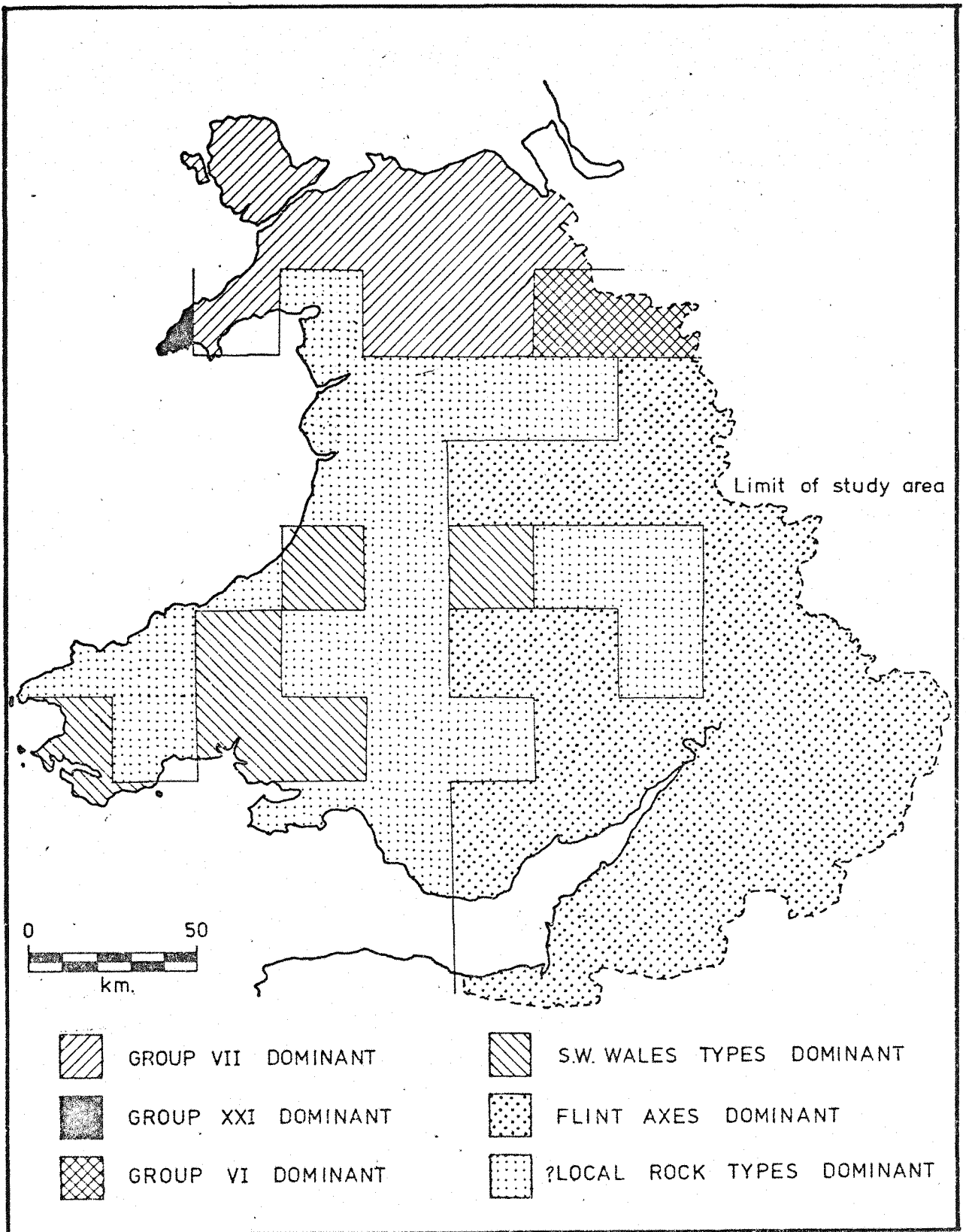


FIGURE 101. Plot showing the sources dominating axe assemblages in each sample square.

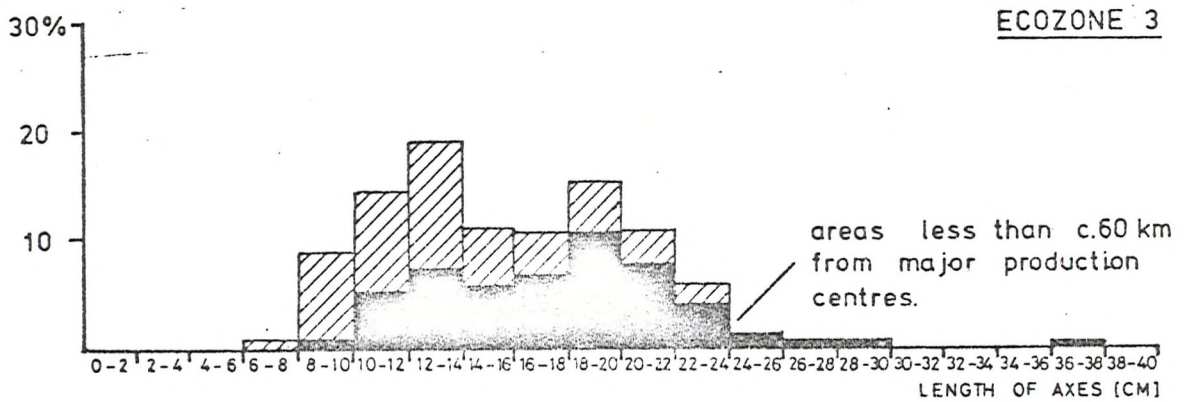
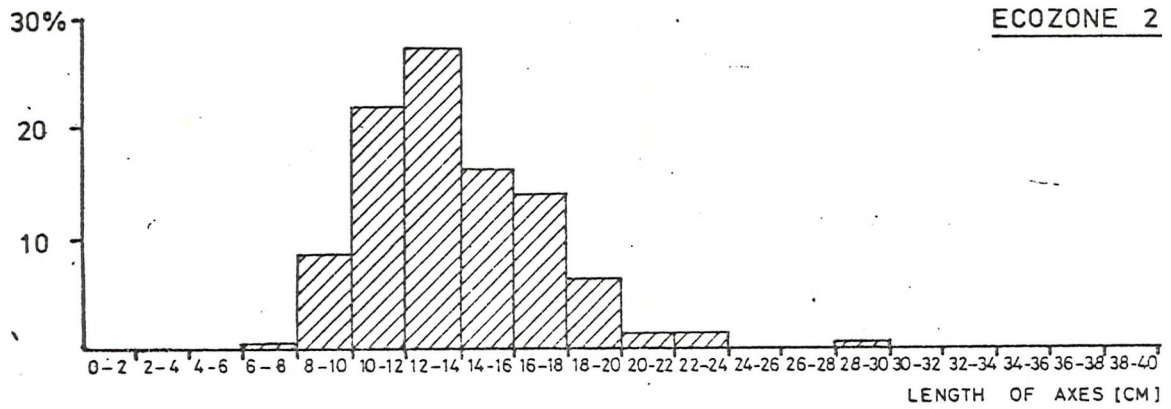
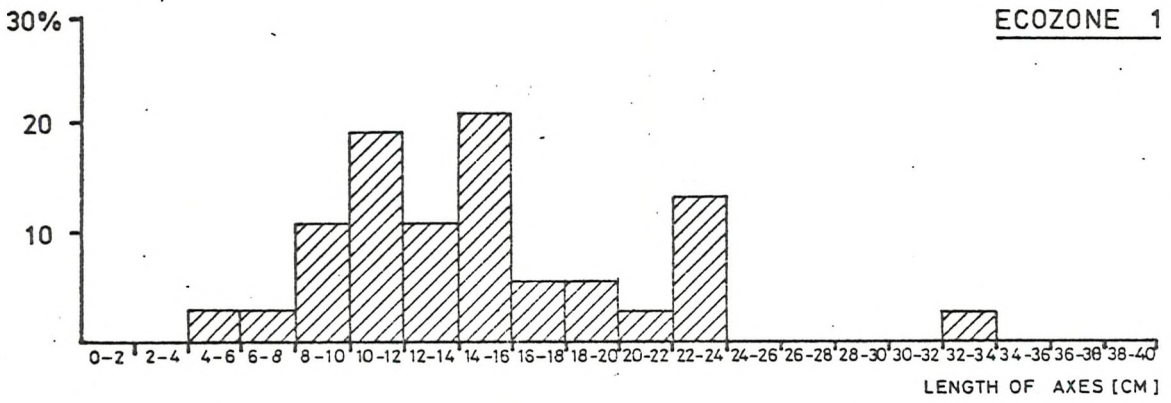
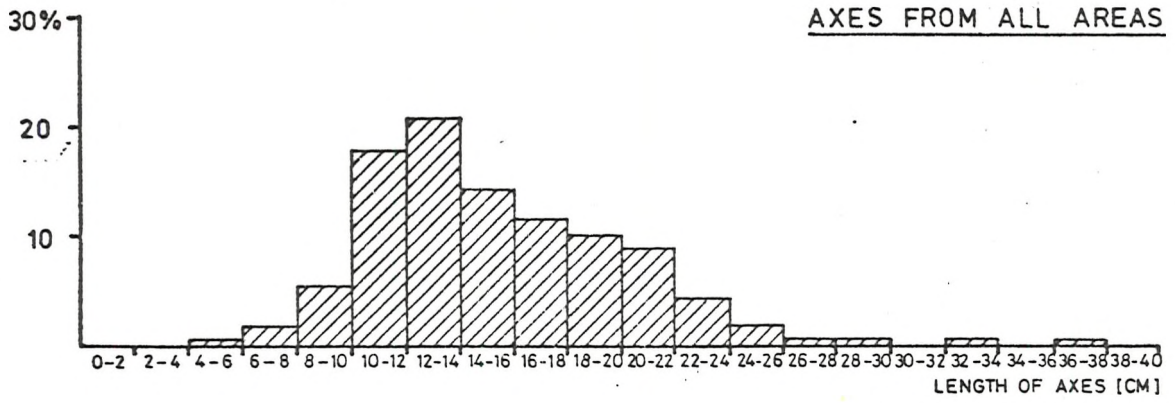


FIGURE 102. Histograms showing the size frequency of flint and stone axes.

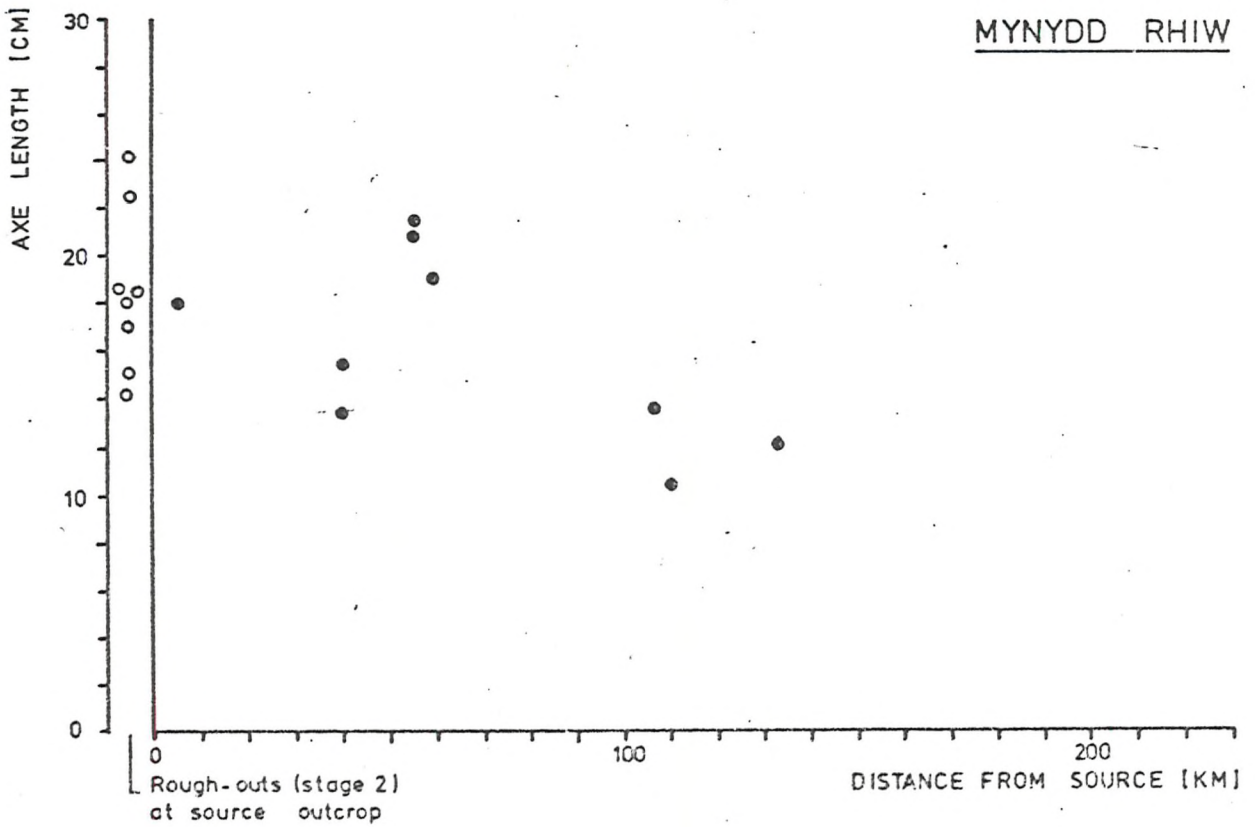
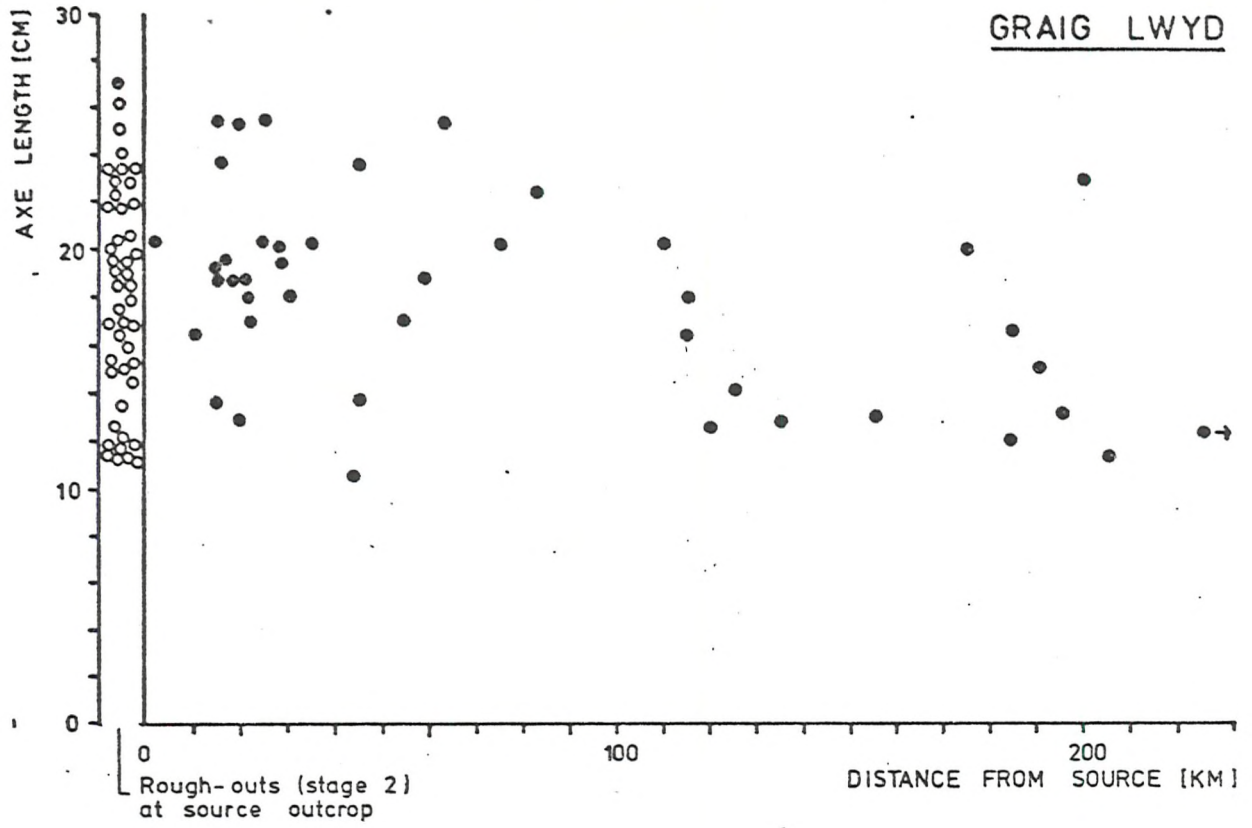


FIGURE 103. Distance decay plots for axes produced in north Wales.

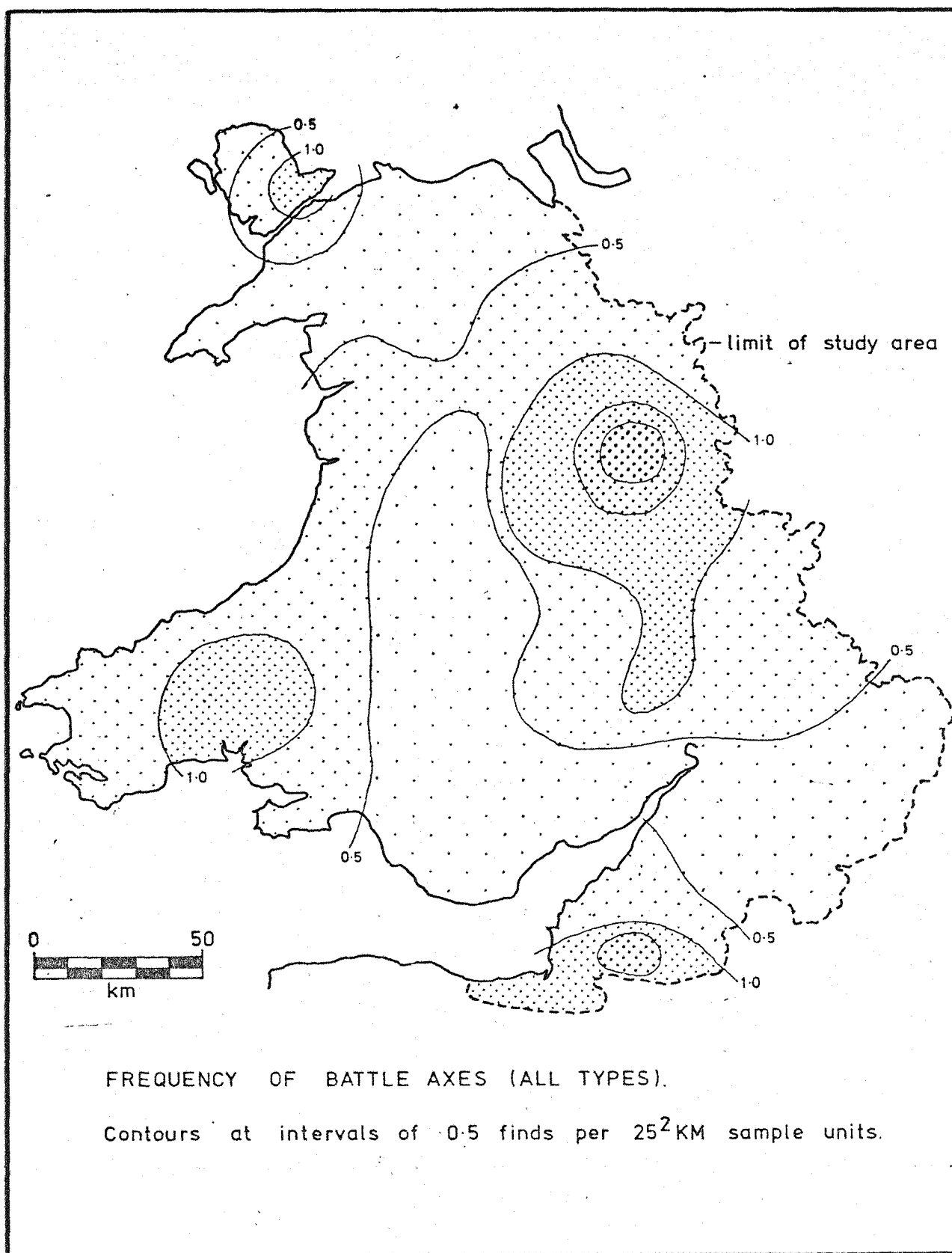


FIGURE 104. Trend surface plot showing the density of recorded battle-axes.

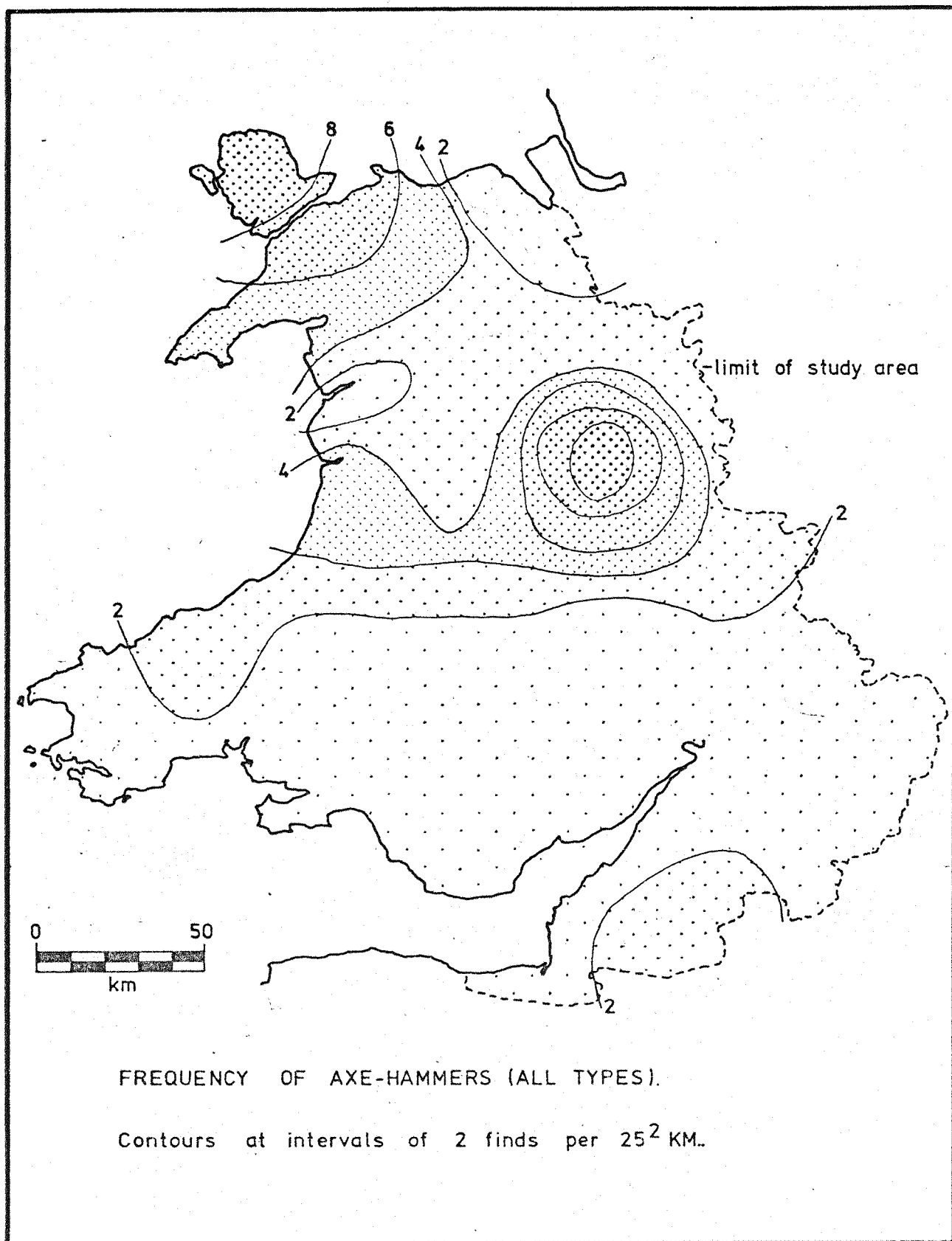
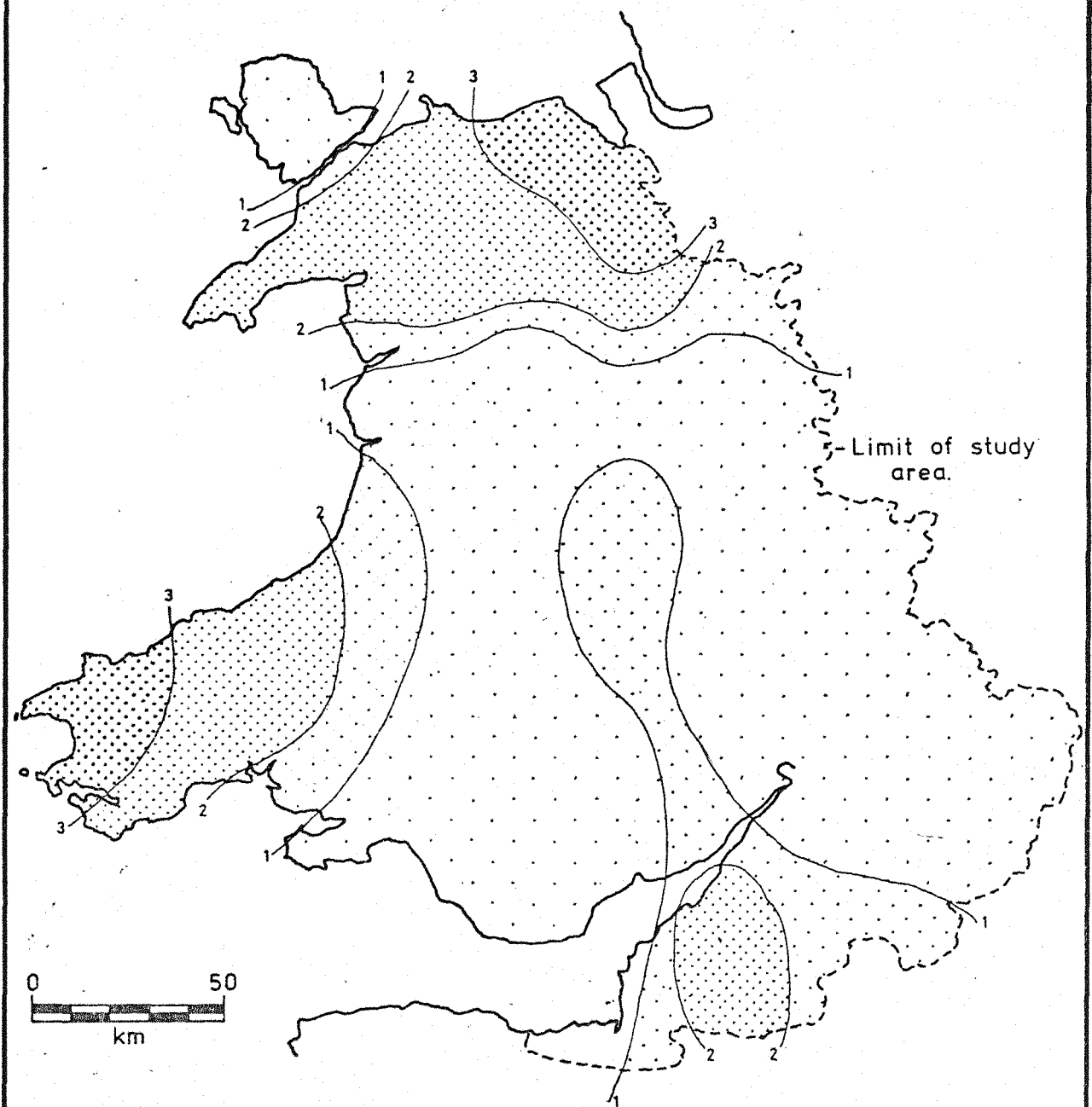


FIGURE 105. Trend surface plot showing the density of recorded axe-hammers.



FREQUENCY OF MACE-HEADS (ALL TYPES).

Contours at intervals of 1 per 25^2 KM.

FIGURE 106. Trend surface plot showing the density of recorded mace-heads.

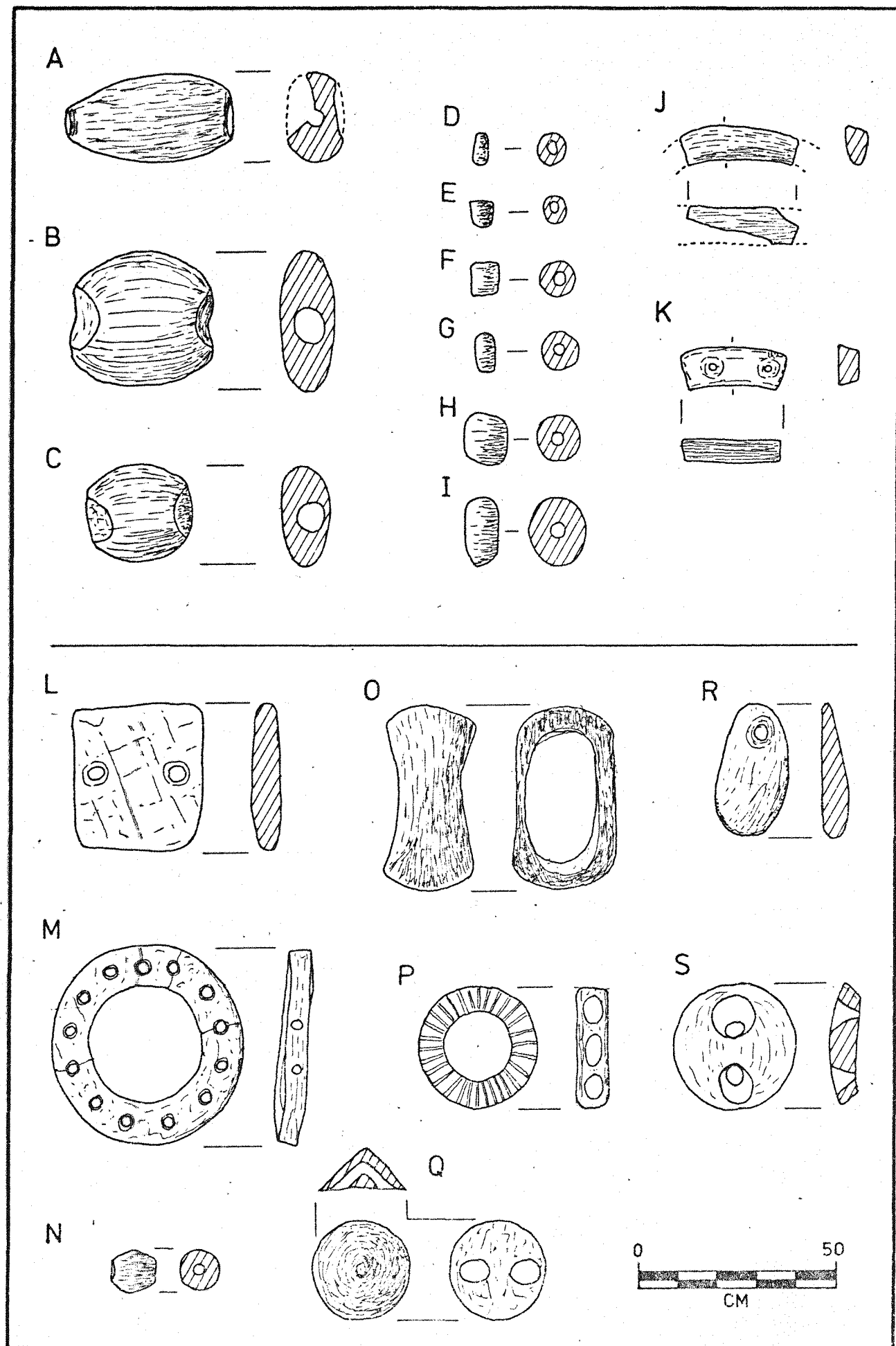


FIGURE 107. Examples of shale and jet objects from the study area. (See Appendix VIII, Schedule 4 for key to lettering)

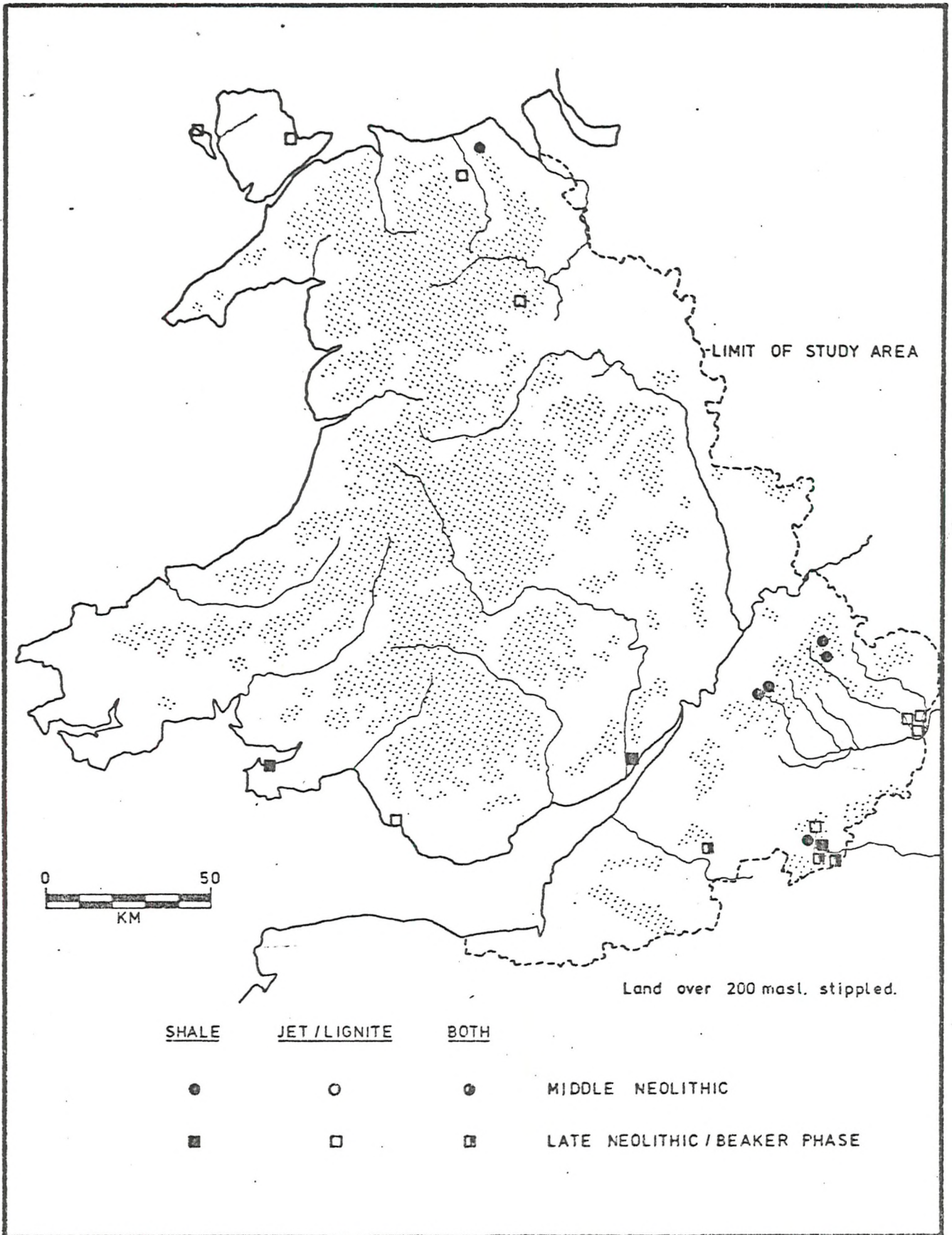


FIGURE 108. Distribution of shale and jet objects.

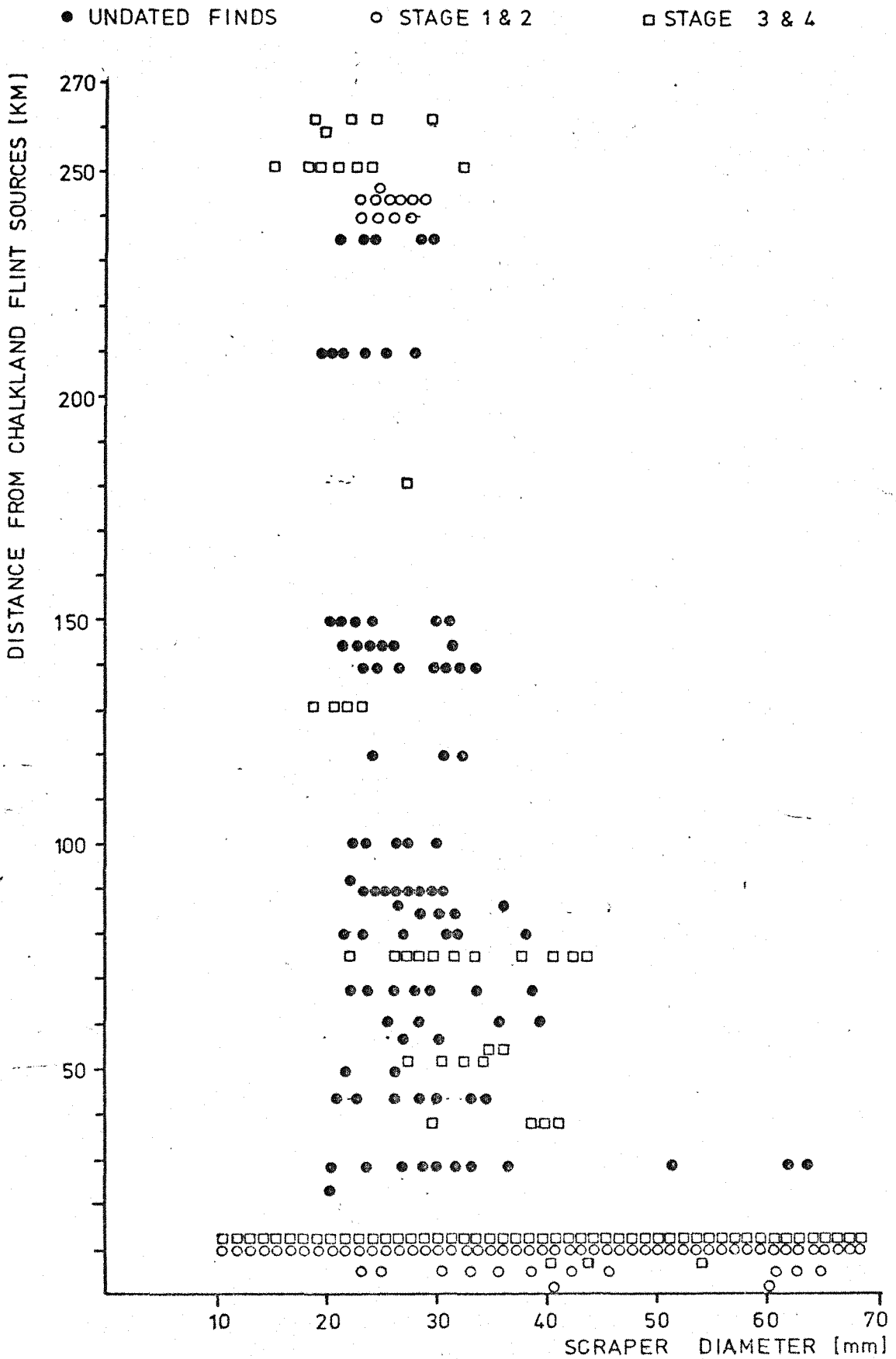


FIGURE 109. Distribution of discoid scraper sizes by distance from chalkland flint sources.

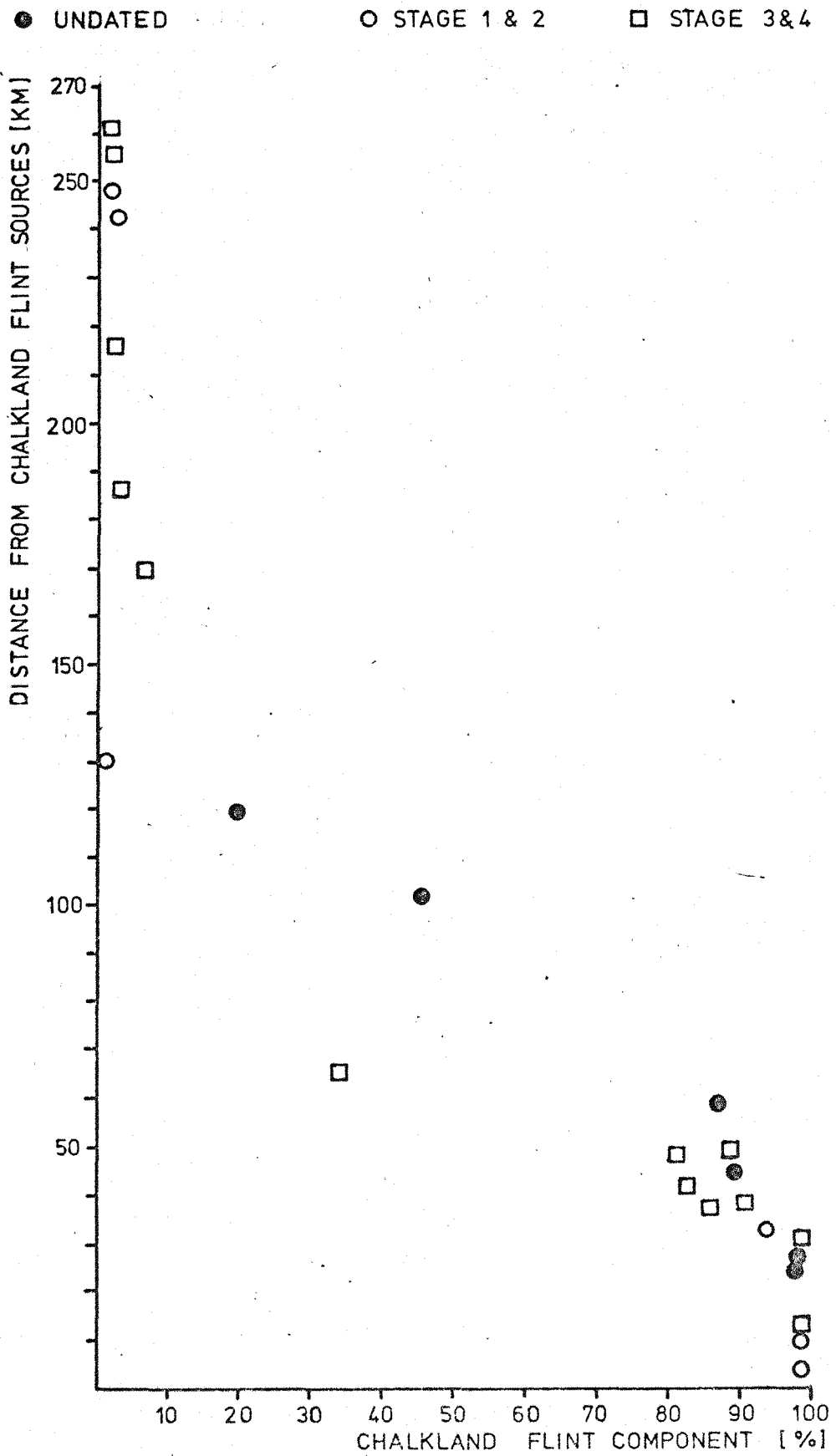


FIGURE 110. Percentage of "chalkland" type flint in lithic assemblages.

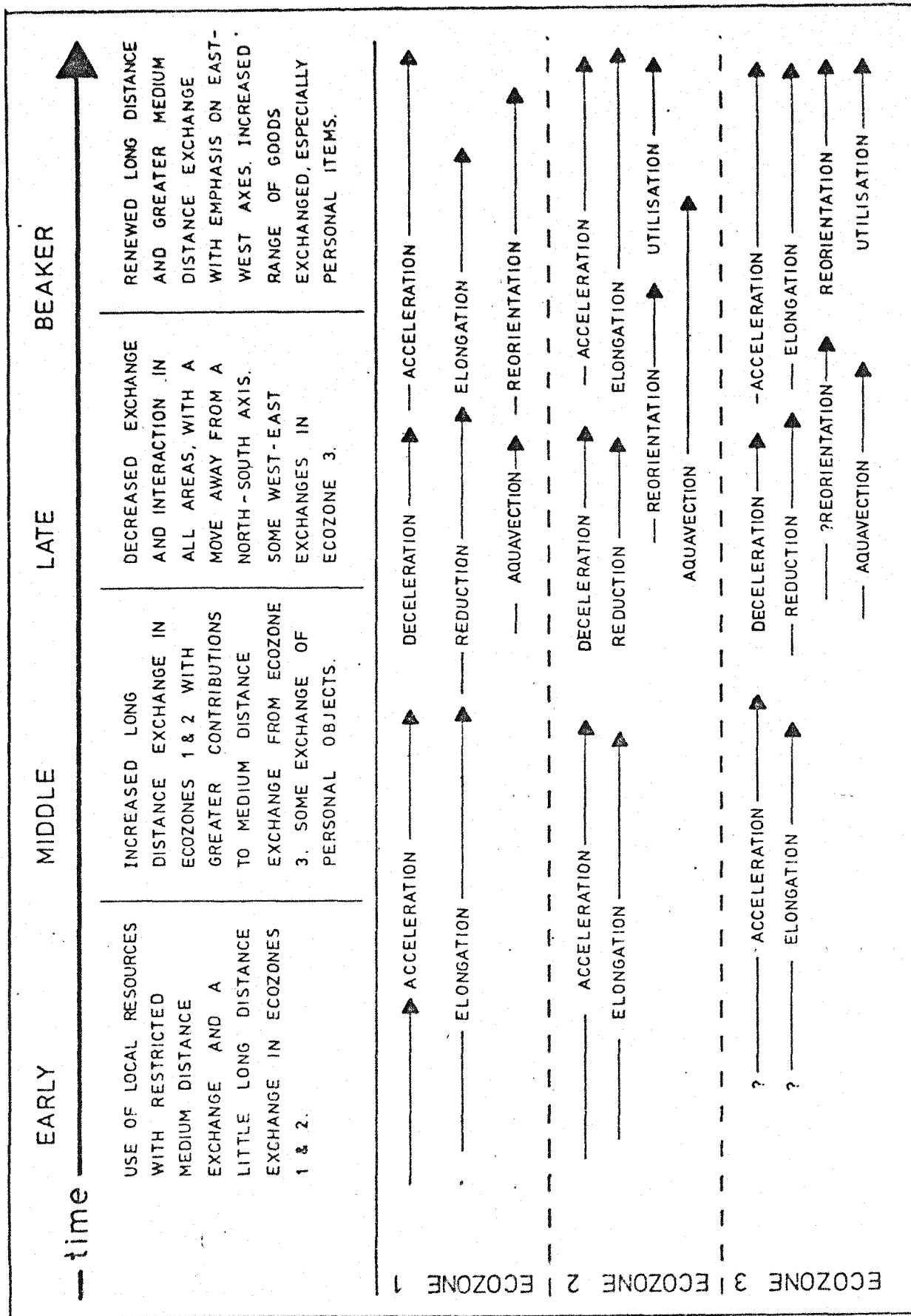


FIGURE 111. Summary of processes discerned in the execution of exchange activities.

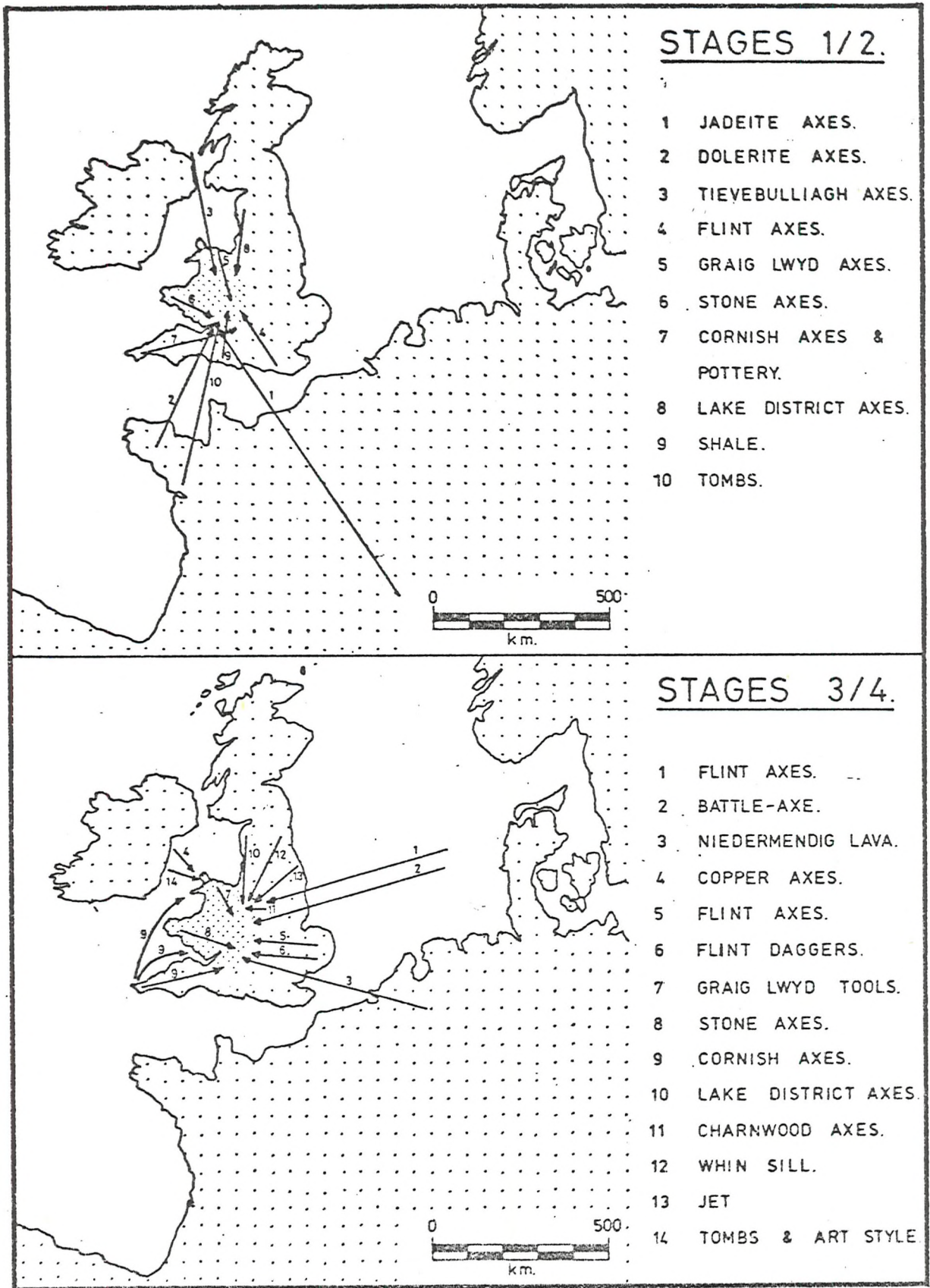


FIGURE 112. Maps showing the changing orientation of medium and long distance exchanges.

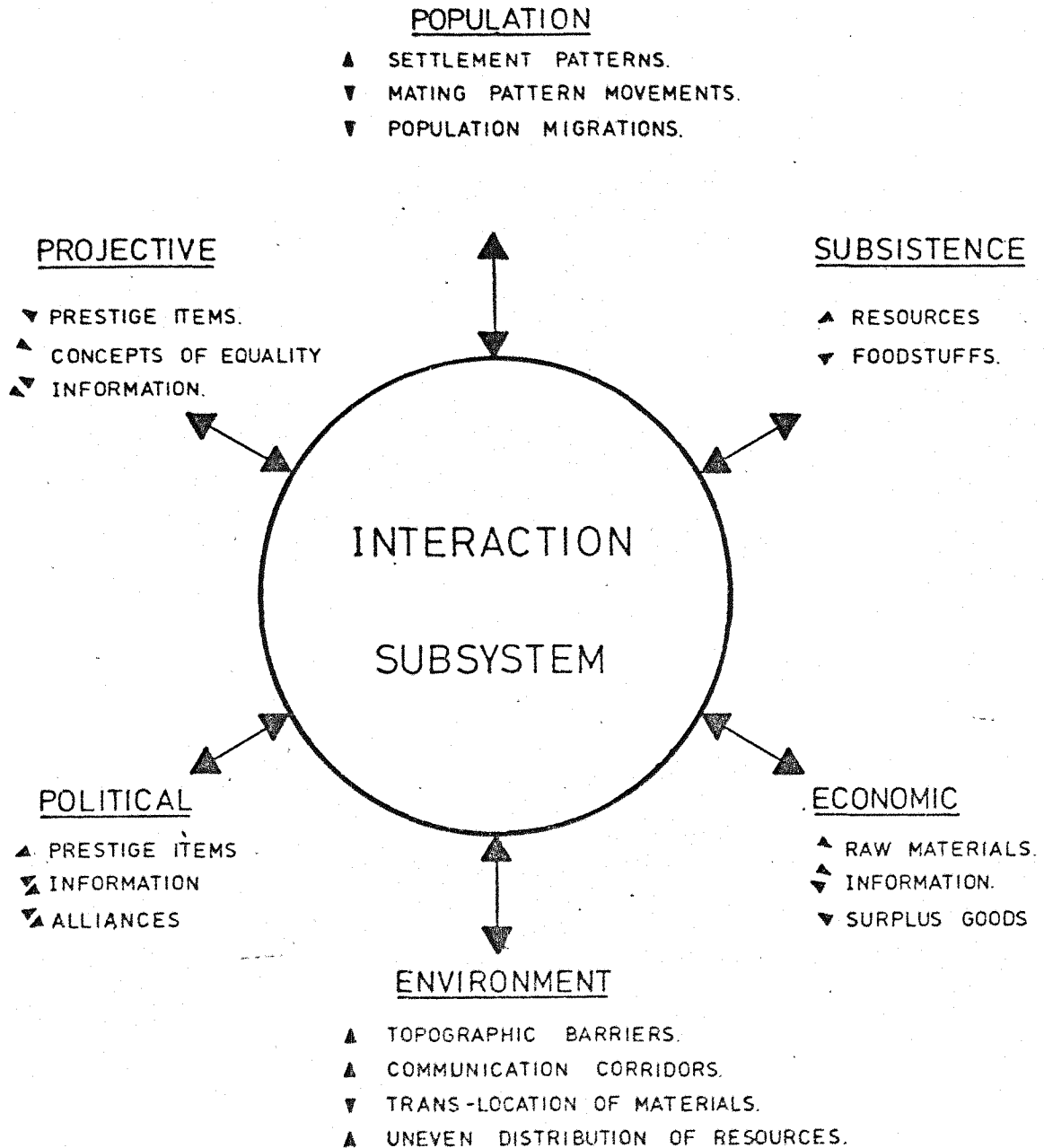


FIGURE 113. Input - output diagram for the exchange/interaction subsystem.

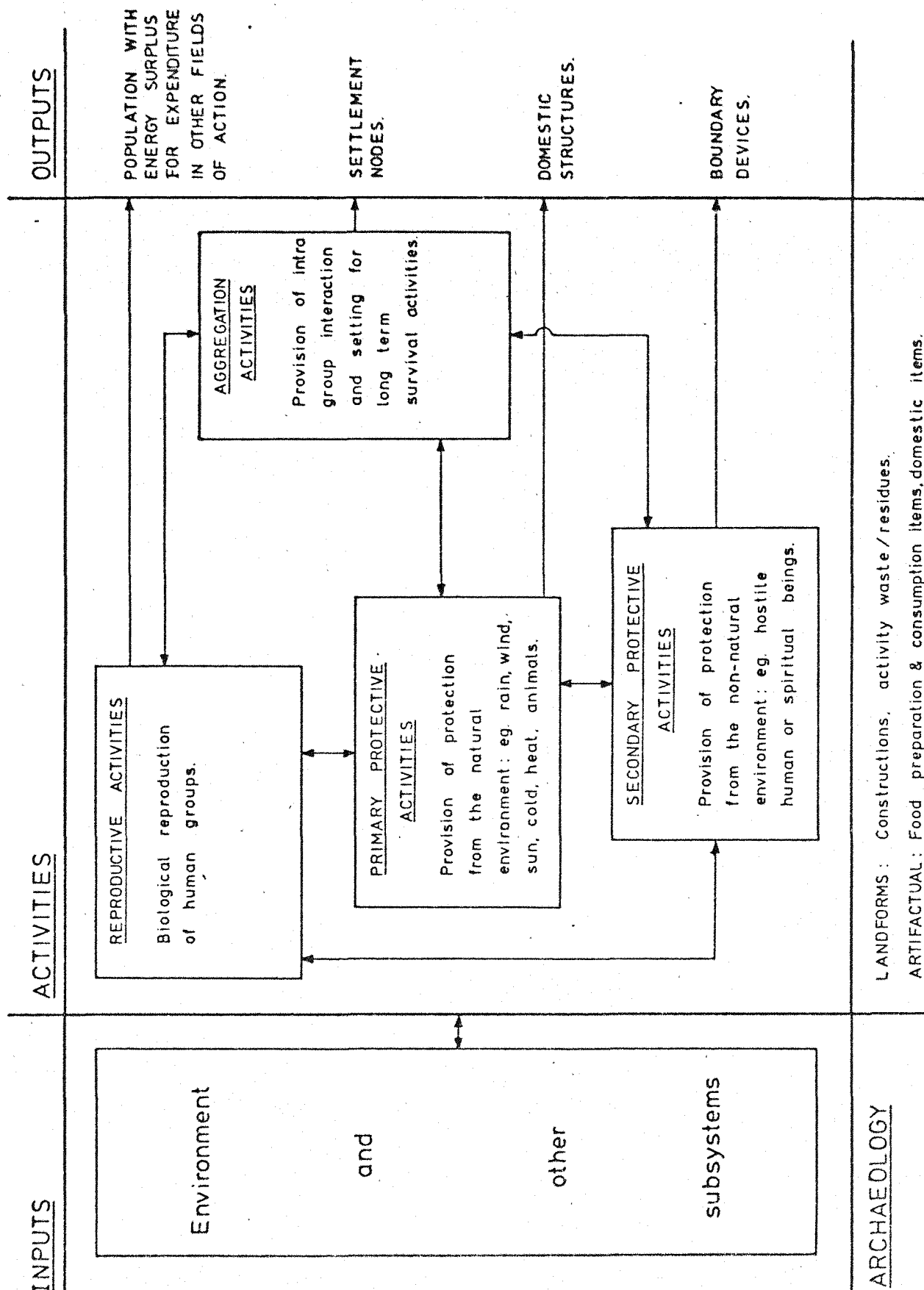


FIGURE 114. Diagrammatic representation of the internal workings of the population subsystem.

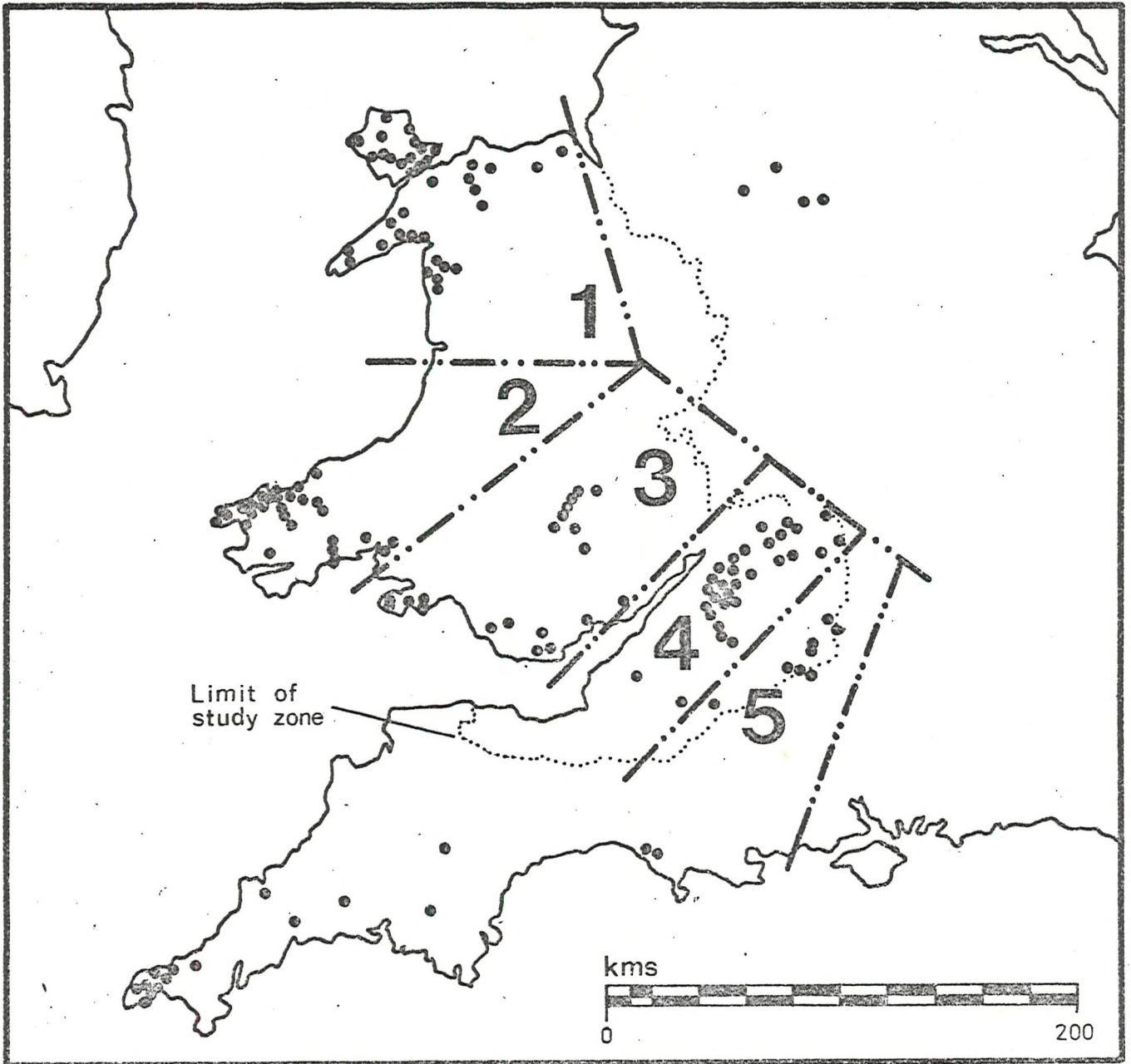


FIGURE 115. Distribution of chambered tombs (after Daniel 1950) showing divisions used in biometric studies.

1. North Wales
2. South west Wales
3. South Wales
4. The Cotswolds
5. North Wessex Downs

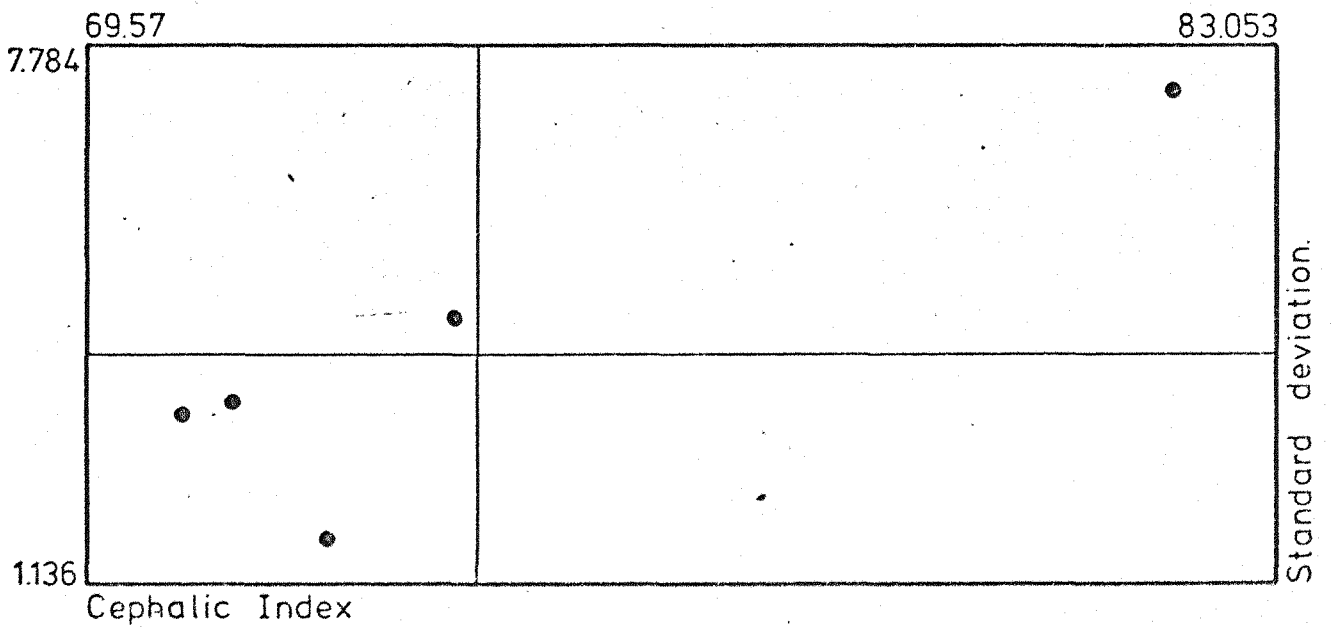
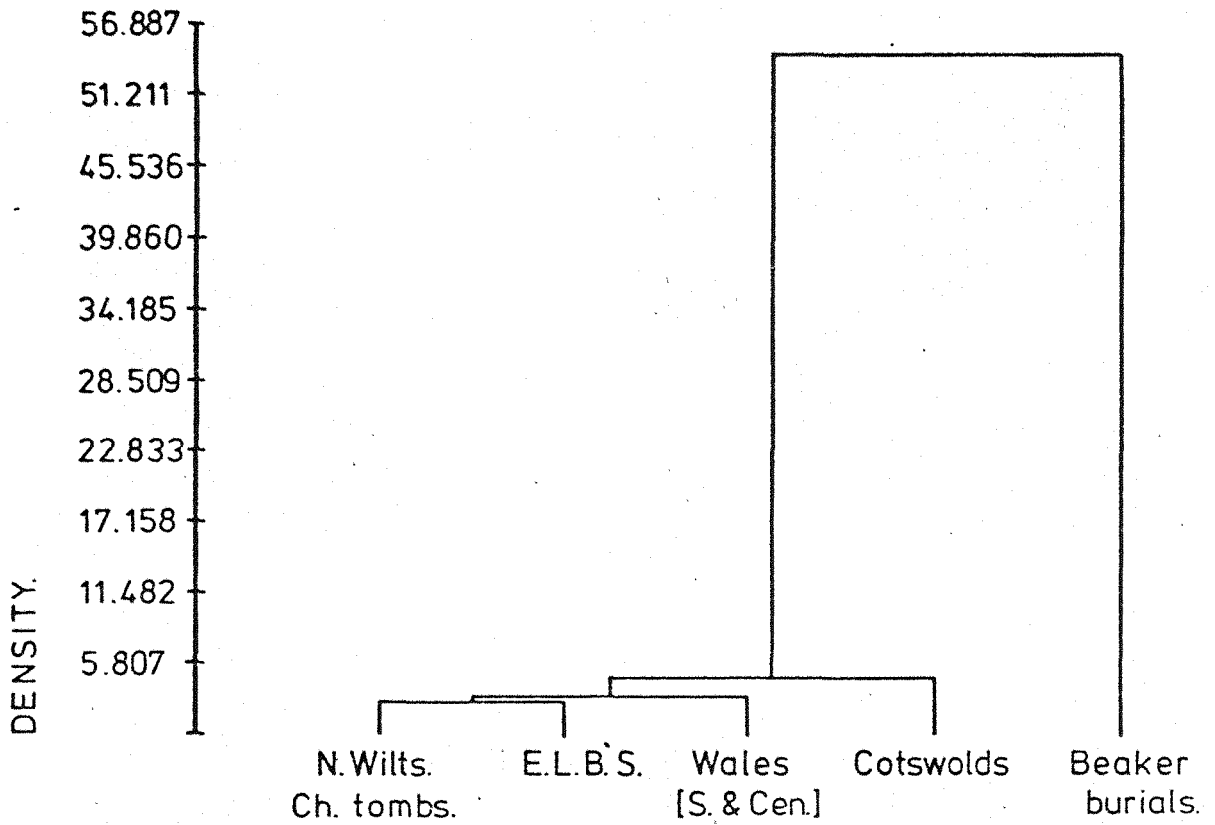


FIGURE 116. Dendrogram and scattergram showing relationships between population groups by biometric data.



FIGURE 117. Distribution of barrows around Swell, Gloucestershire.

- a. Cow Common Long (GLE 266)
- b. Eyford Hill (GLE 299)
- c. New Close (GLE 300)
- d. Poles Wood West (GLE 262)
- e. Poles Wood South (GLE 263)
- f. Poles Wood East (GLE 261)
- g. Lower Swell Barrow (GLE 264)
- h. Whittlestone (GLE 265)
- i. Condicote Lane (GLE 269)
- j. Hoarstone (GLE ---)

Ovals = long barrows.

Dots = round barrows.

Open shapes = doubtful sites.

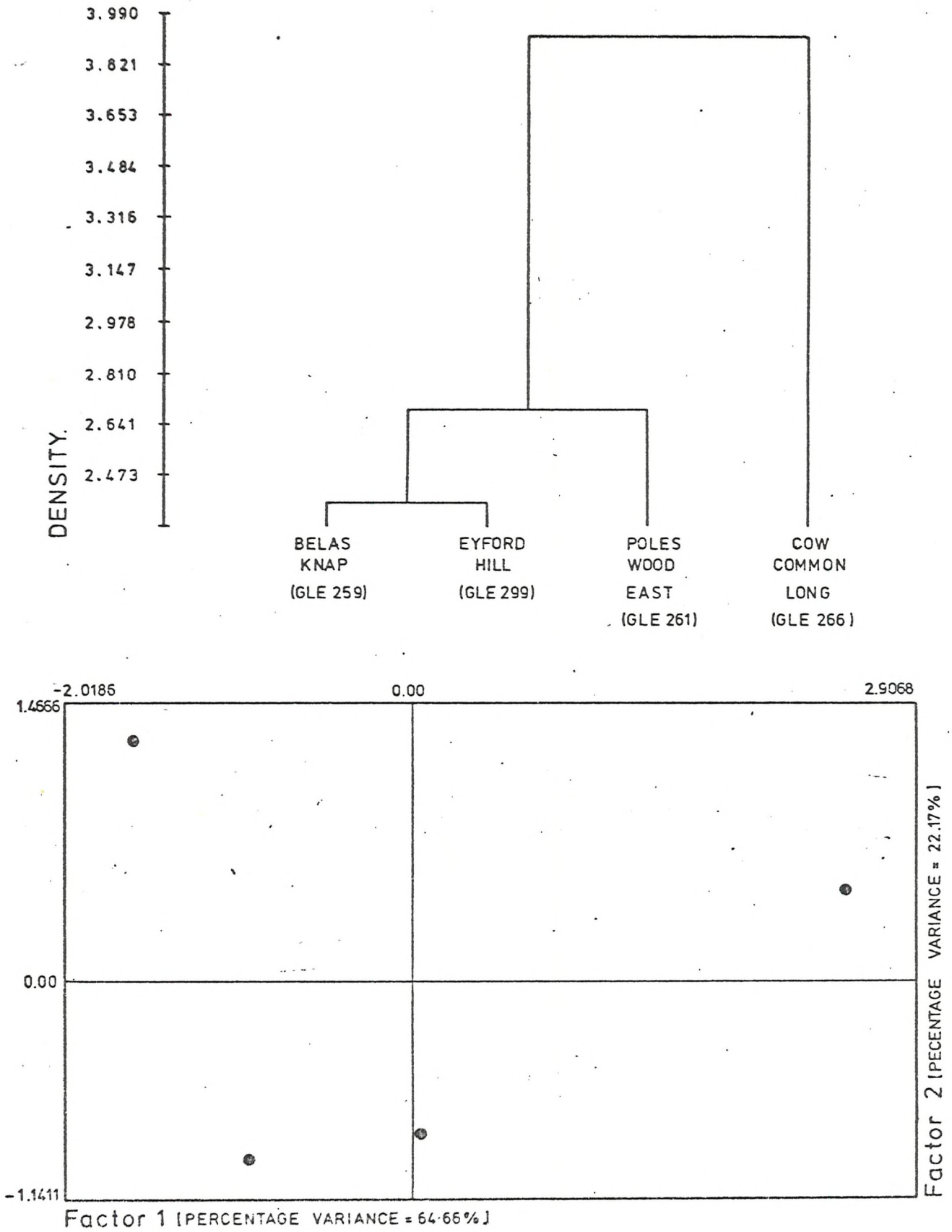


FIGURE 118. Dendrogram and principal components plot showing relationships between population groups through biometric data.

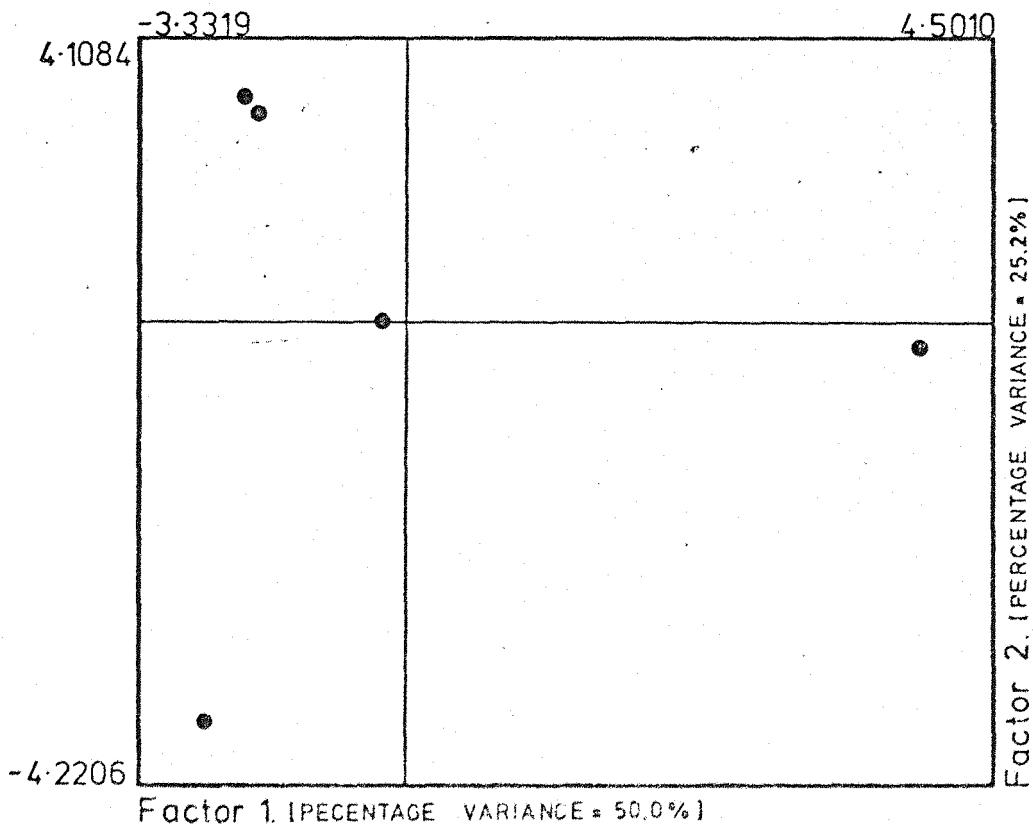
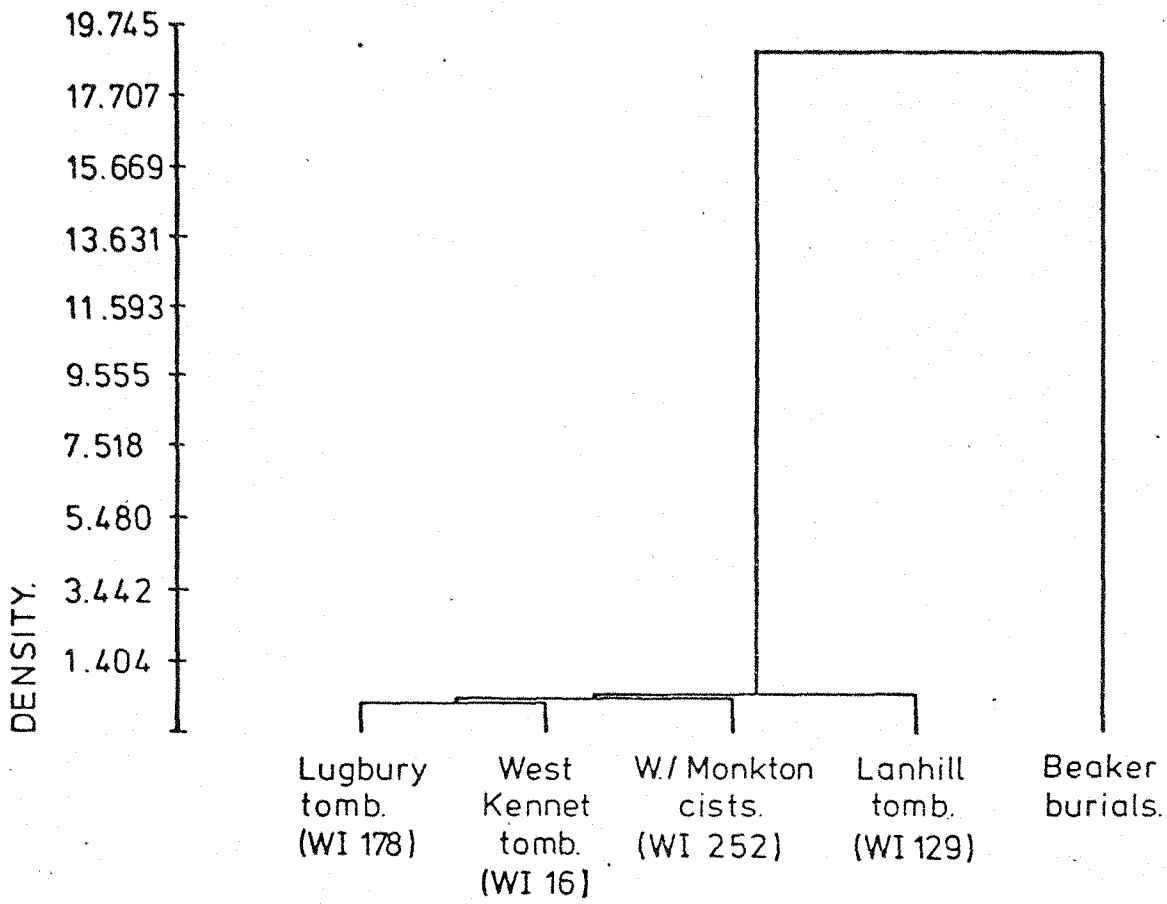


FIGURE 119. Dendrogram and principal components plot showing relationships between population groups in north Wiltshire through biometric data.

EARLY - MIDDLE NEOLITHIC UNENCLOSED SETTLEMENTS.

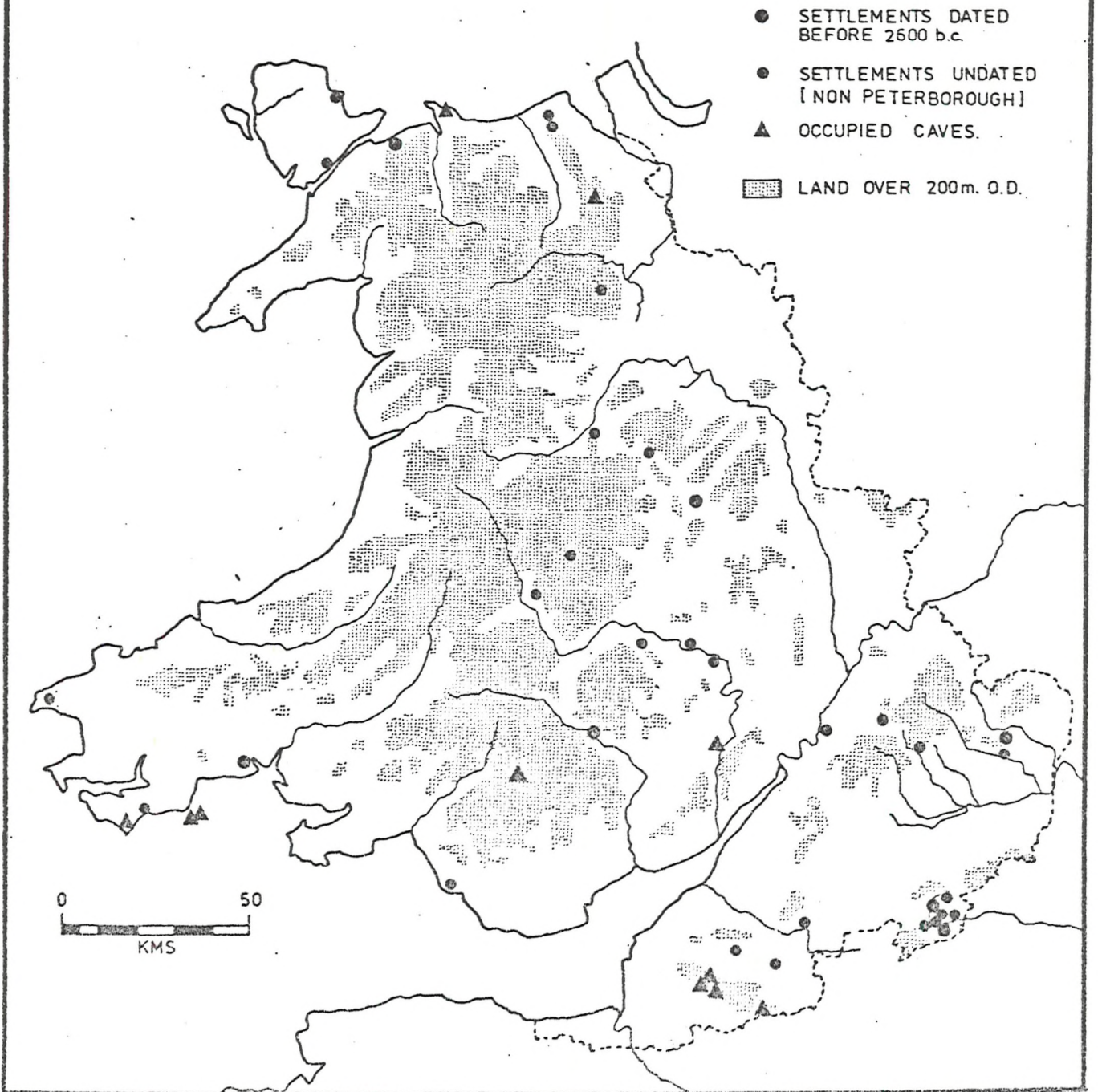
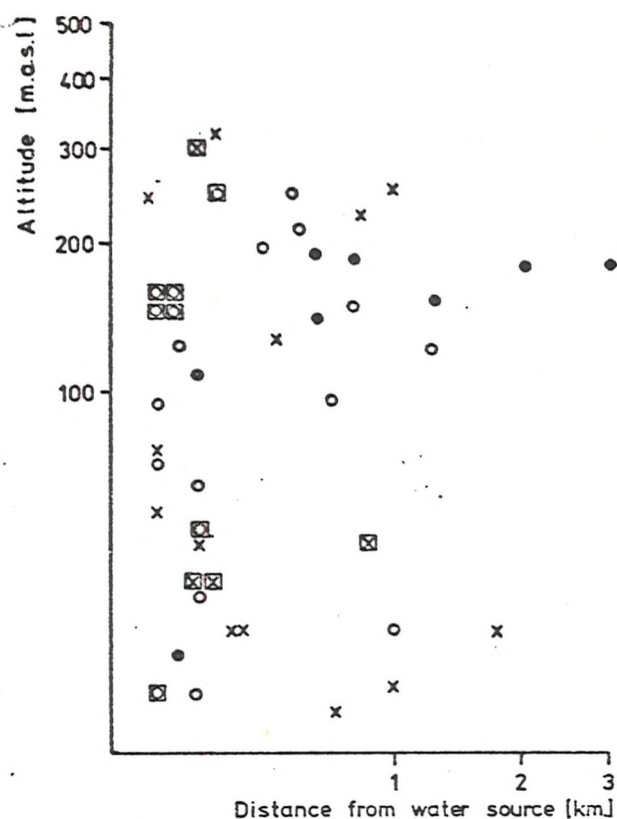
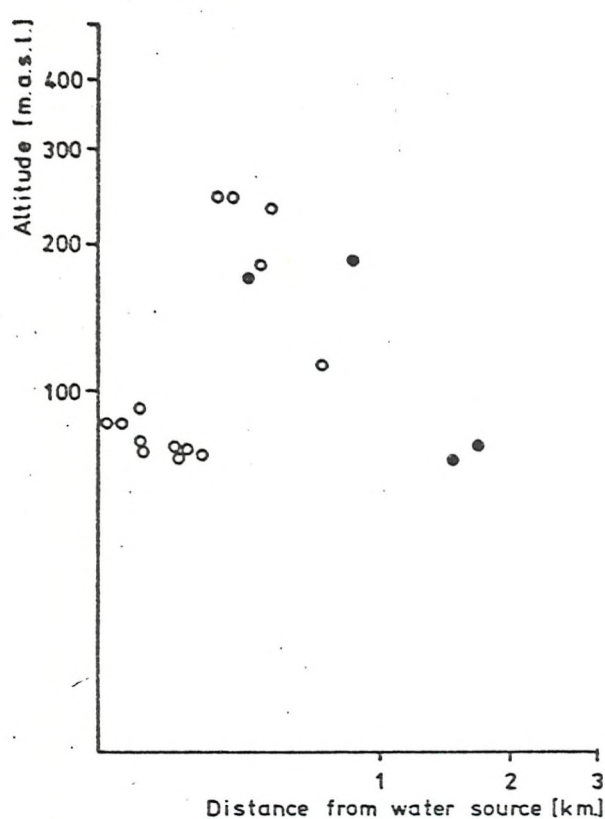


FIGURE 120. Distribution of early and middle neolithic settlements.

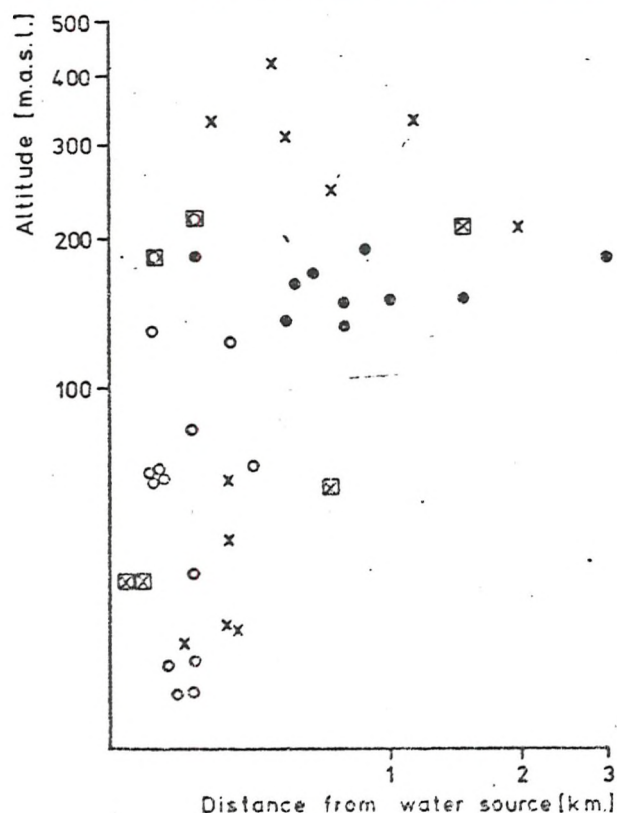
Stage 1 & 2 unenclosed settlements



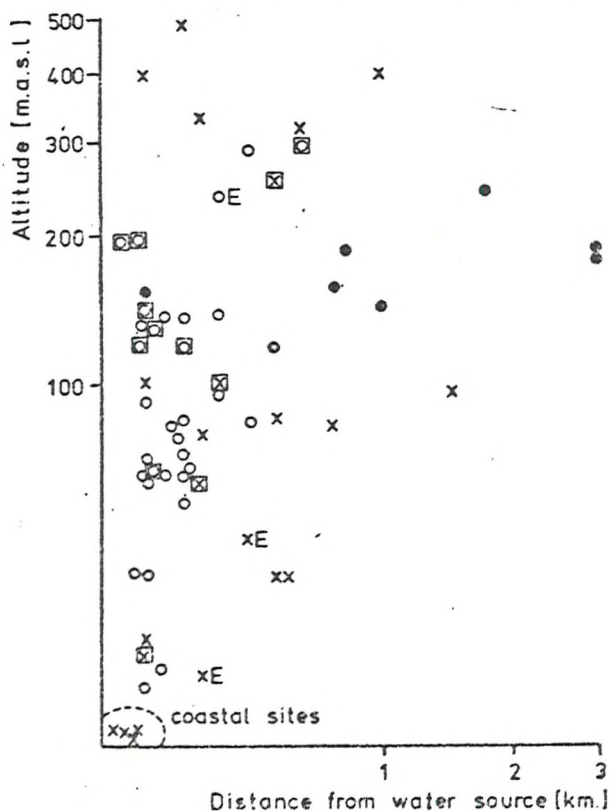
Enclosures



Peterborough neolithic settlements



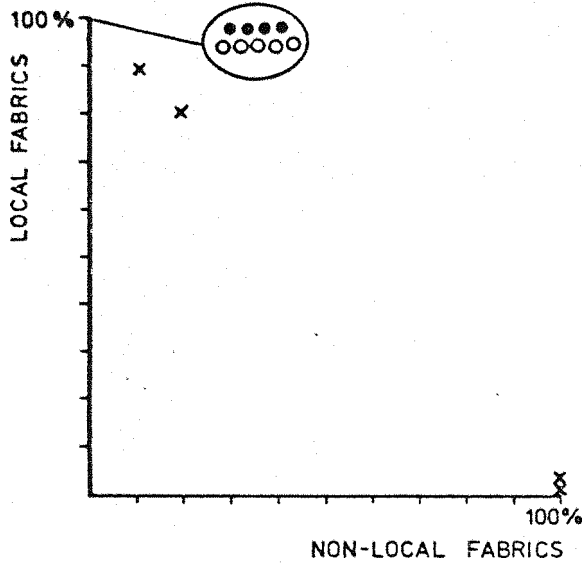
Grooved ware & beaker settlements



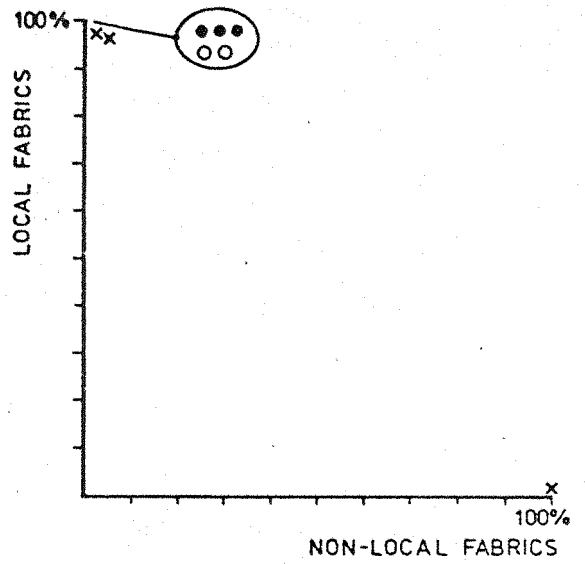
• Ecozone 1 sites / o Ecozone 2 sites / x Ecozone 3 sites / □ Cave sites / E enclosures

FIGURE 121. Scattergrams showing the relationship between altitude and distance to water from neolithic settlements.

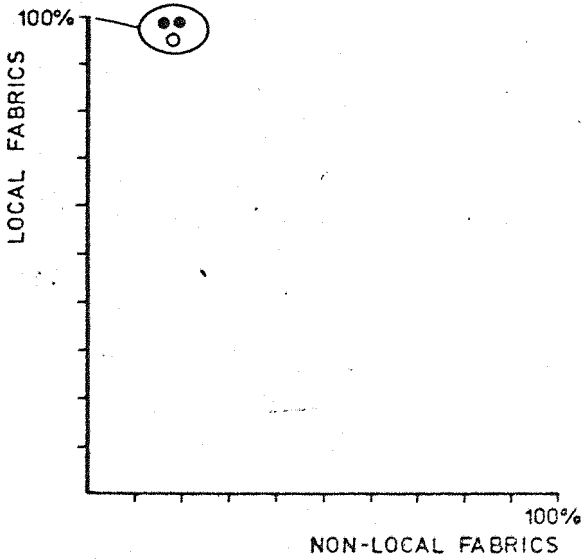
STAGE 1 & 2 UN-ENCLOSED SETTLEMENTS.



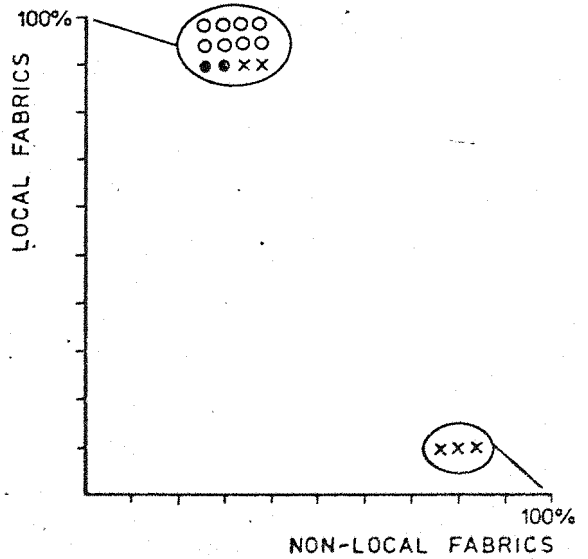
PETERBOROUGH SETTLEMENTS.



MIDDLE NEOLITHIC ENCLOSURES.



GROOVED WARE & BEAKER SETTLEMENTS.



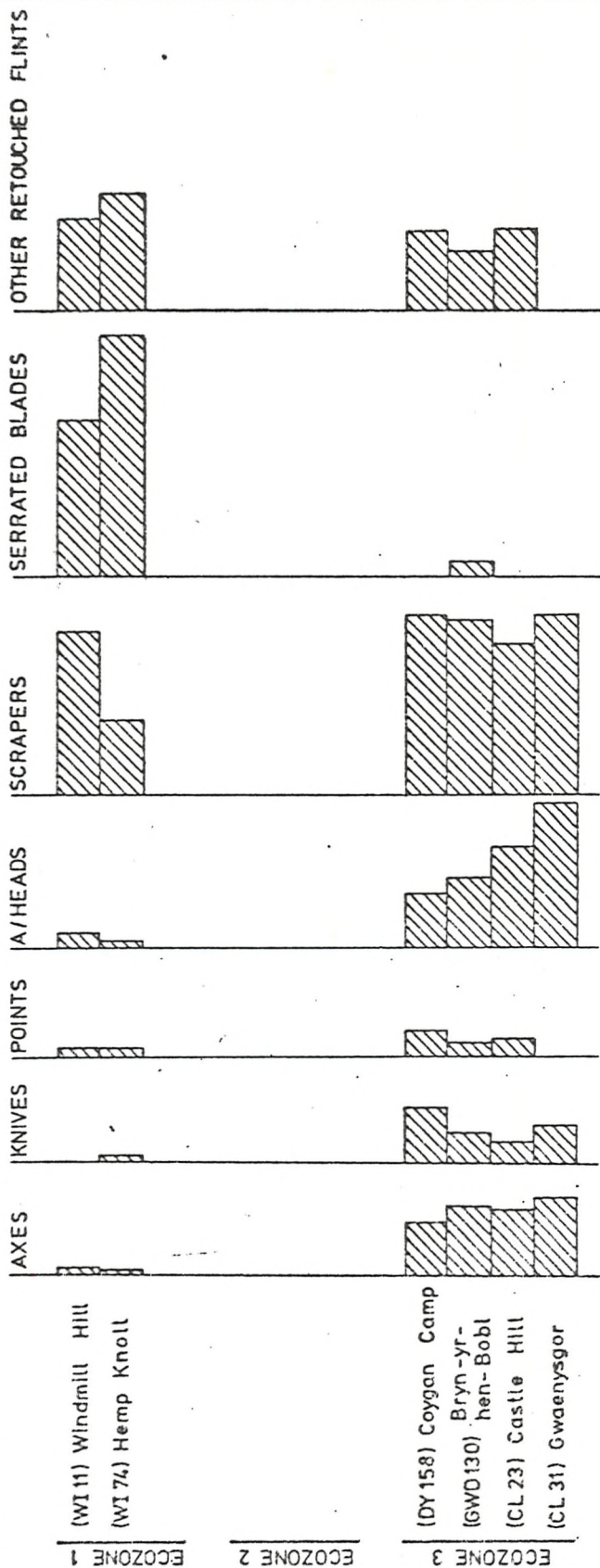
- Sites in eco-zone 1.
- Sites in eco-zone 2.
- x Sites in eco-zone 3.

[Only sites with 20+ sherds and those petrologically examined shown]

FIGURE 122. Fabric representation at neolithic settlement sites.

IMPLEMENT FREQUENCY PROFILES - EARLY & MIDDLE NEOLITHIC.

A. Non-enclosed settlements.



B. Enclosed settlements.

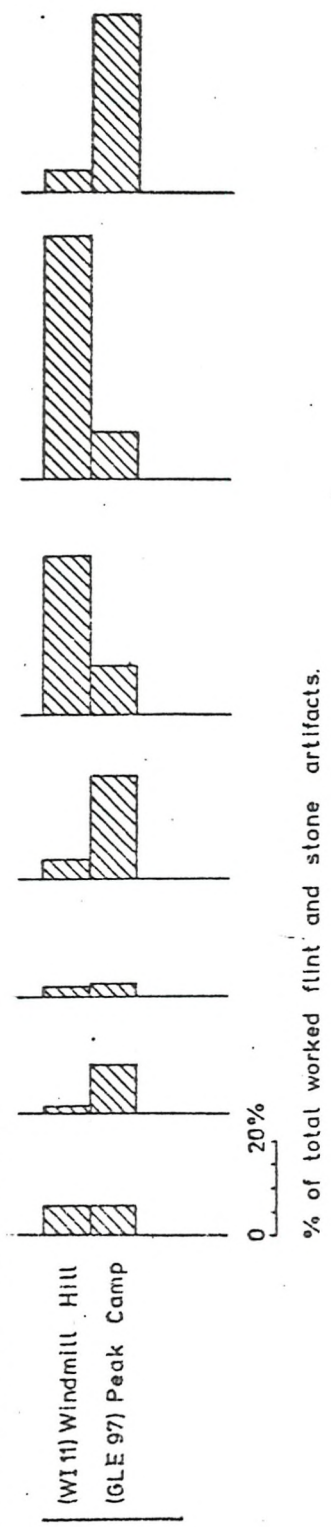


FIGURE 123. Implement frequency profiles for early and middle neolithic settlements.

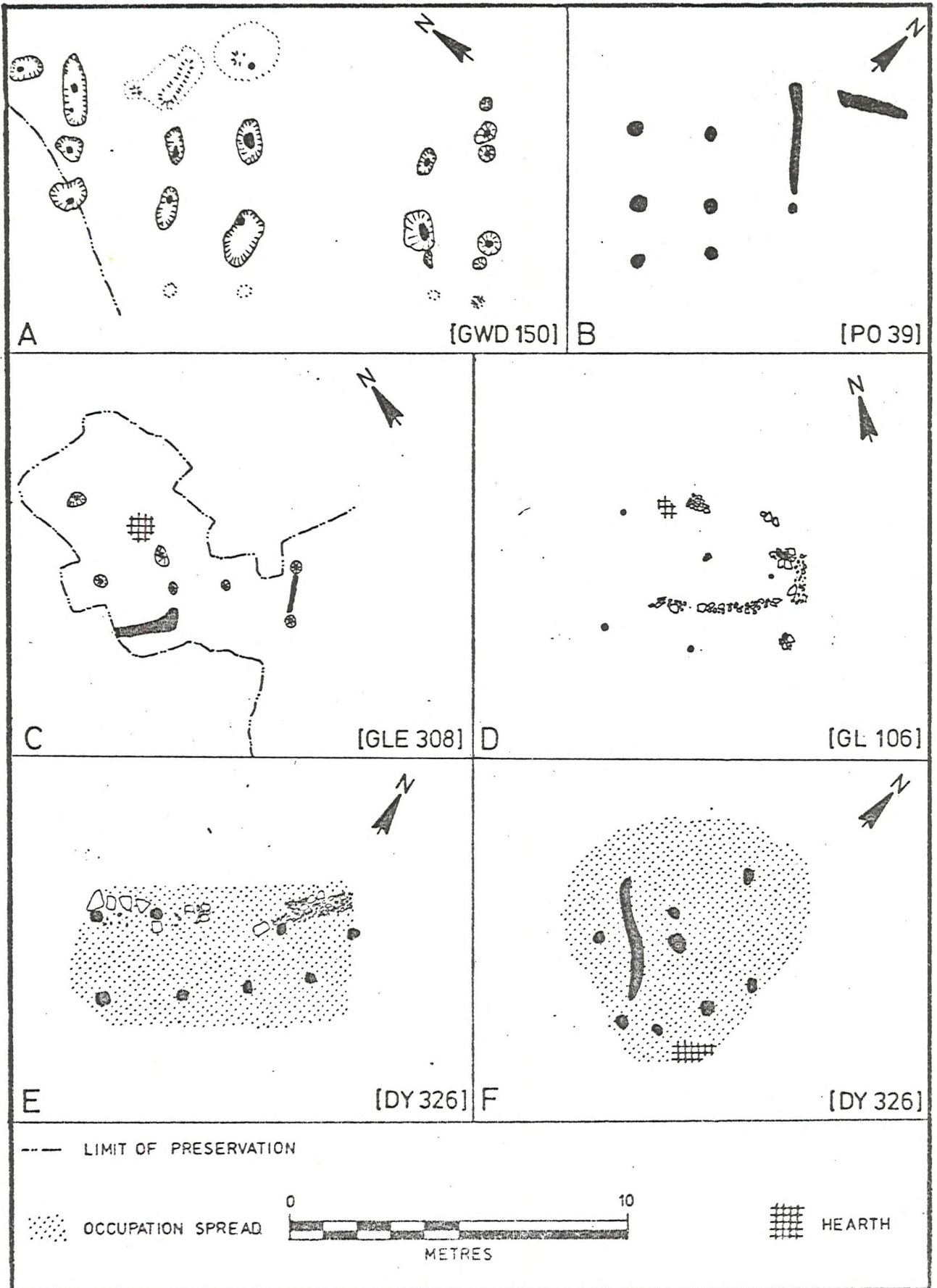


FIGURE 124. Ground plans of recorded early and middle neolithic houses.
(Sources: various)

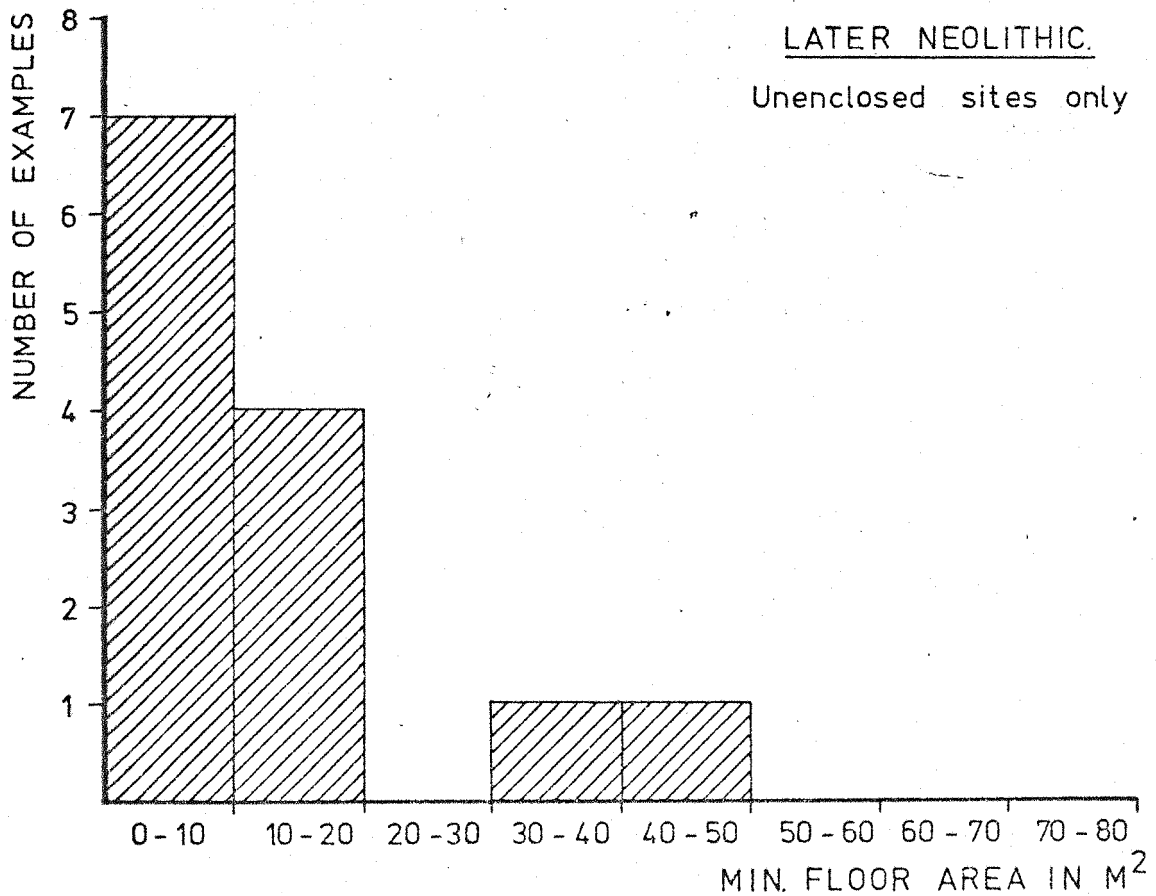
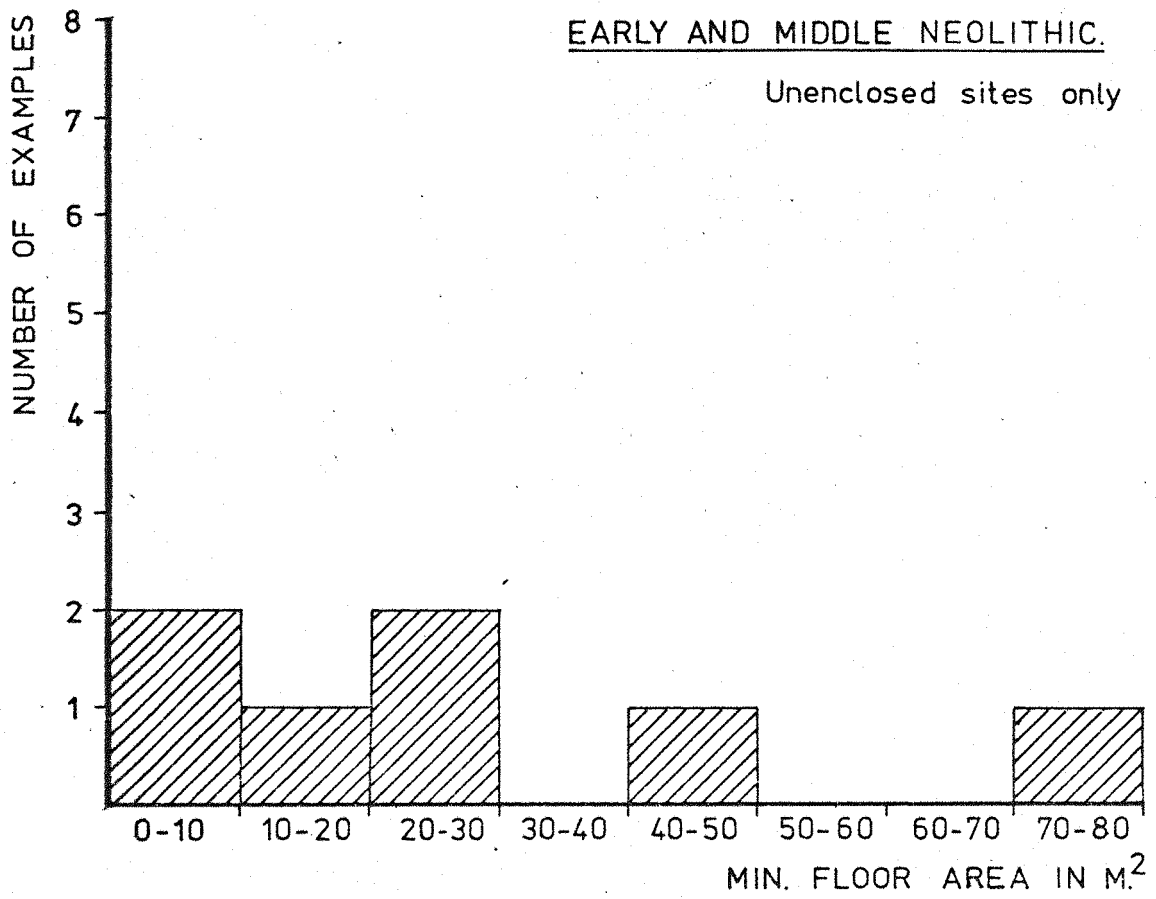


FIGURE 125. Frequency histograms showing house floor areas.

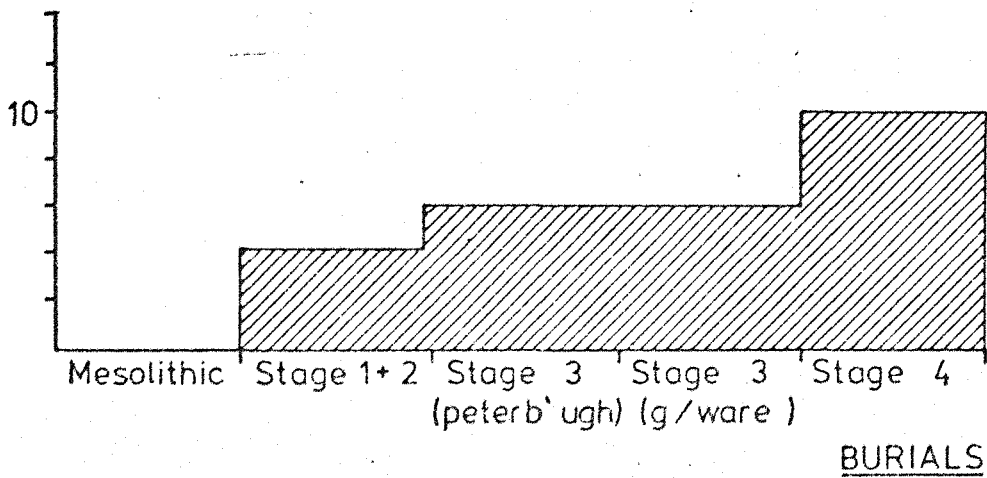
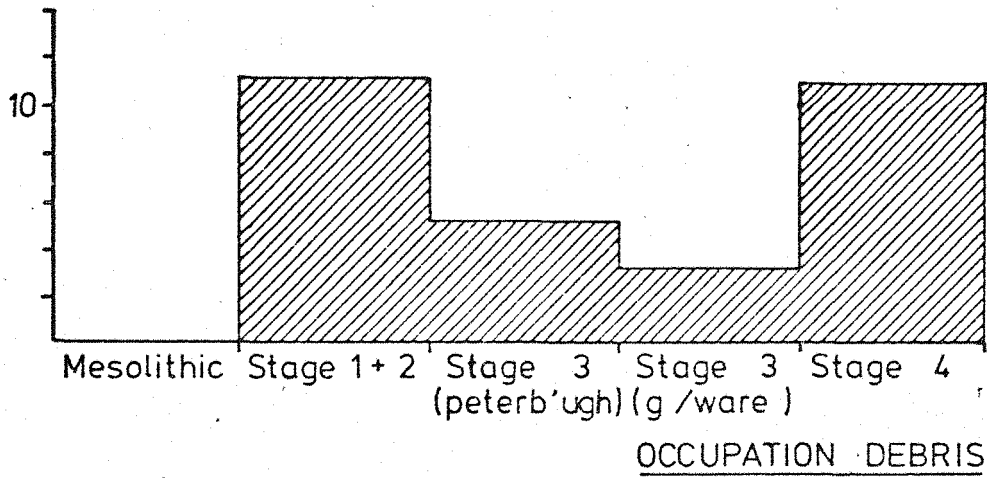
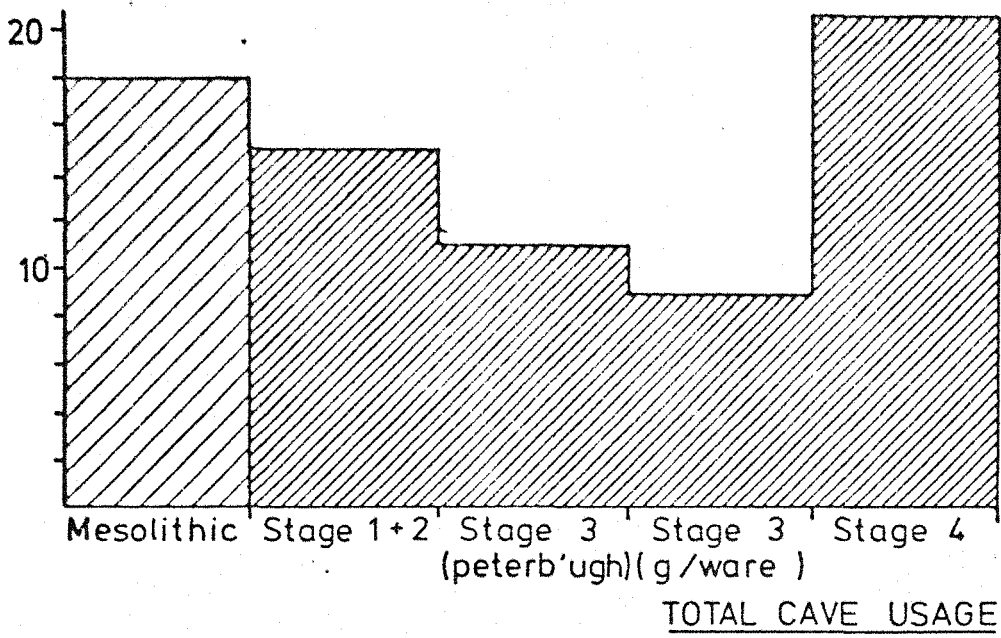


FIGURE 126. Frequency histograms showing usage of caves for settlements and burials.

MIDDLE NEOLITHIC ENCLOSURES.

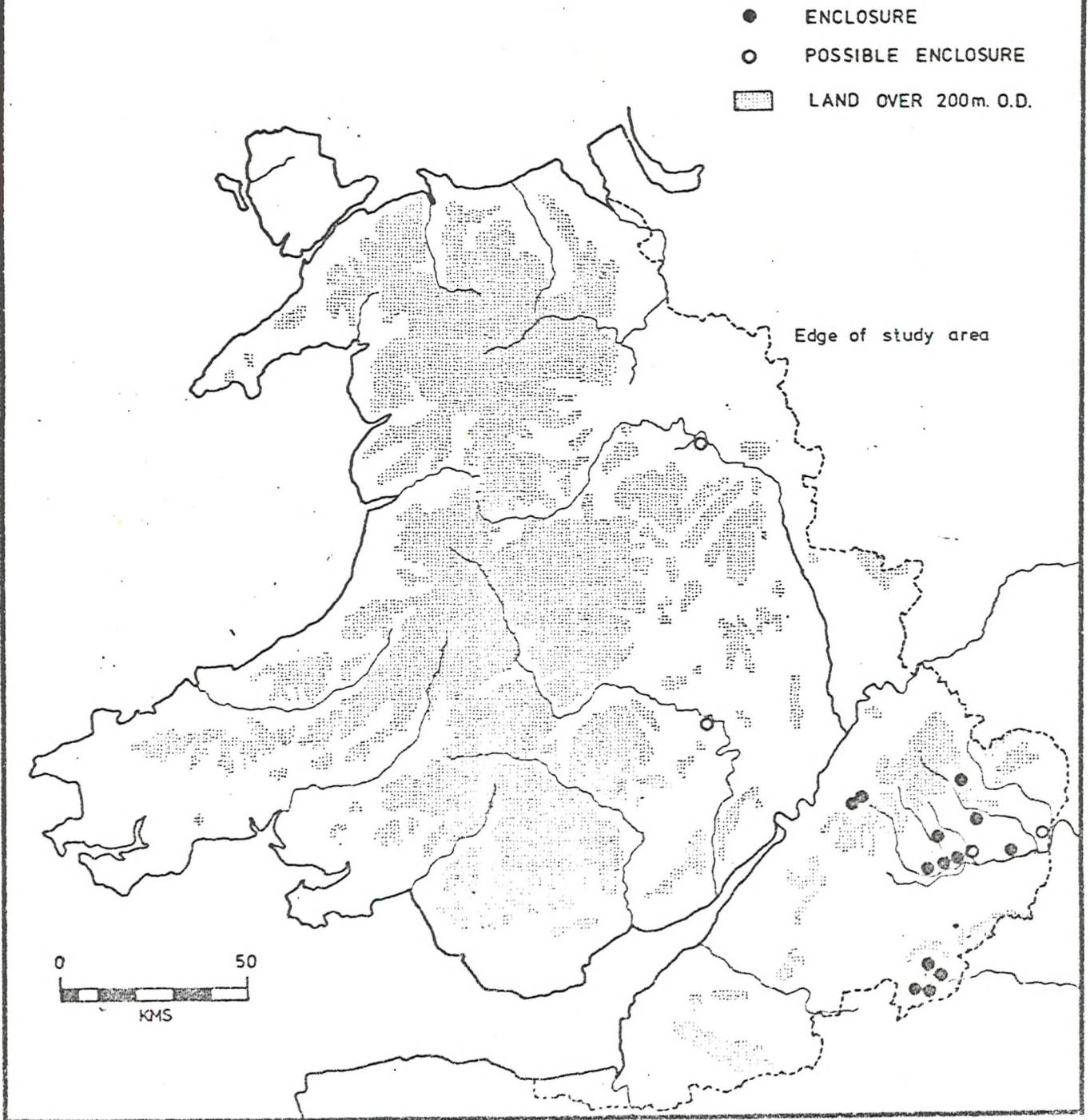
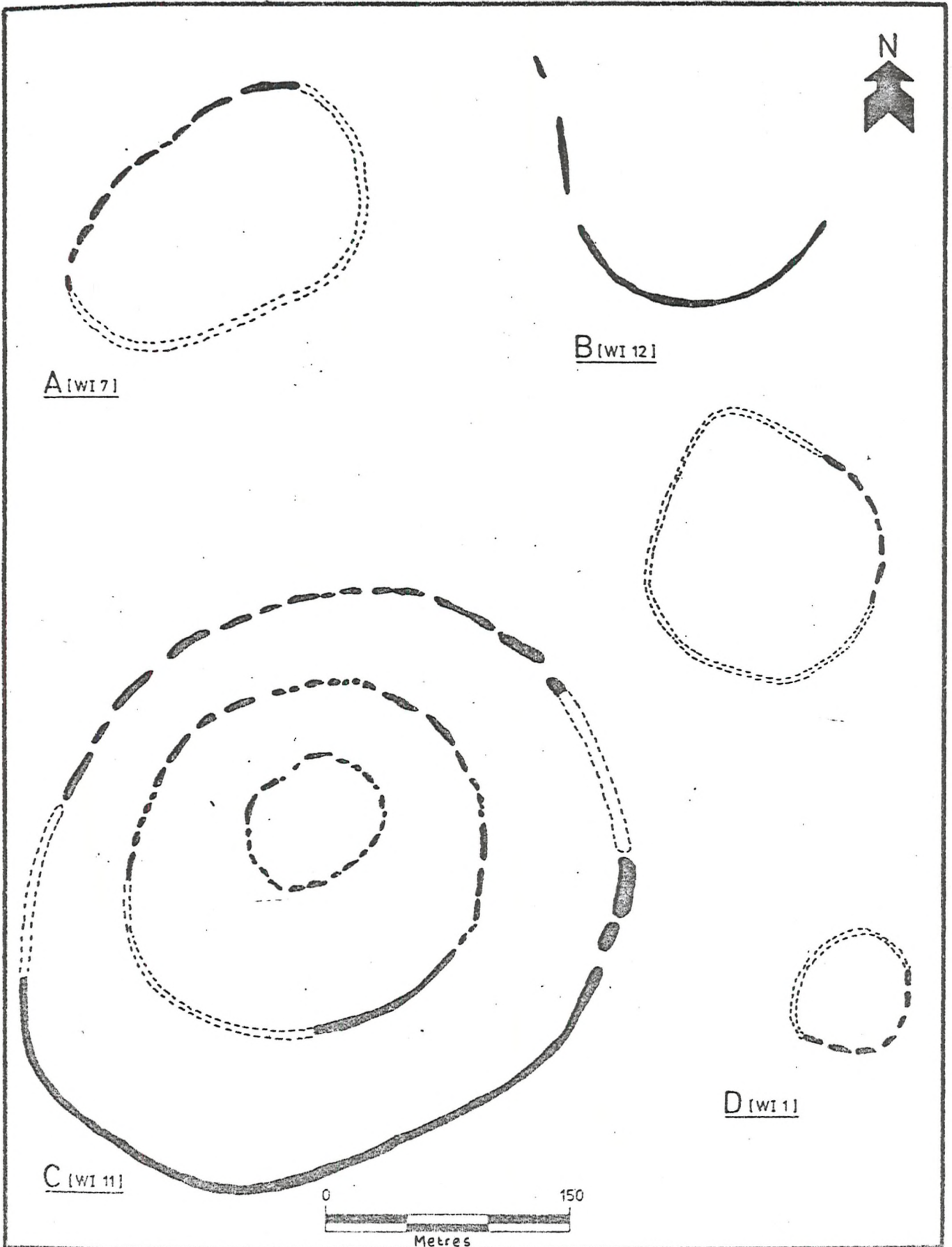


FIGURE 127. Distribution of middle neolithic enclosures.



FIGURES 128. Plans of middle neolithic enclosures in north Wiltshire,
(Sources: various)

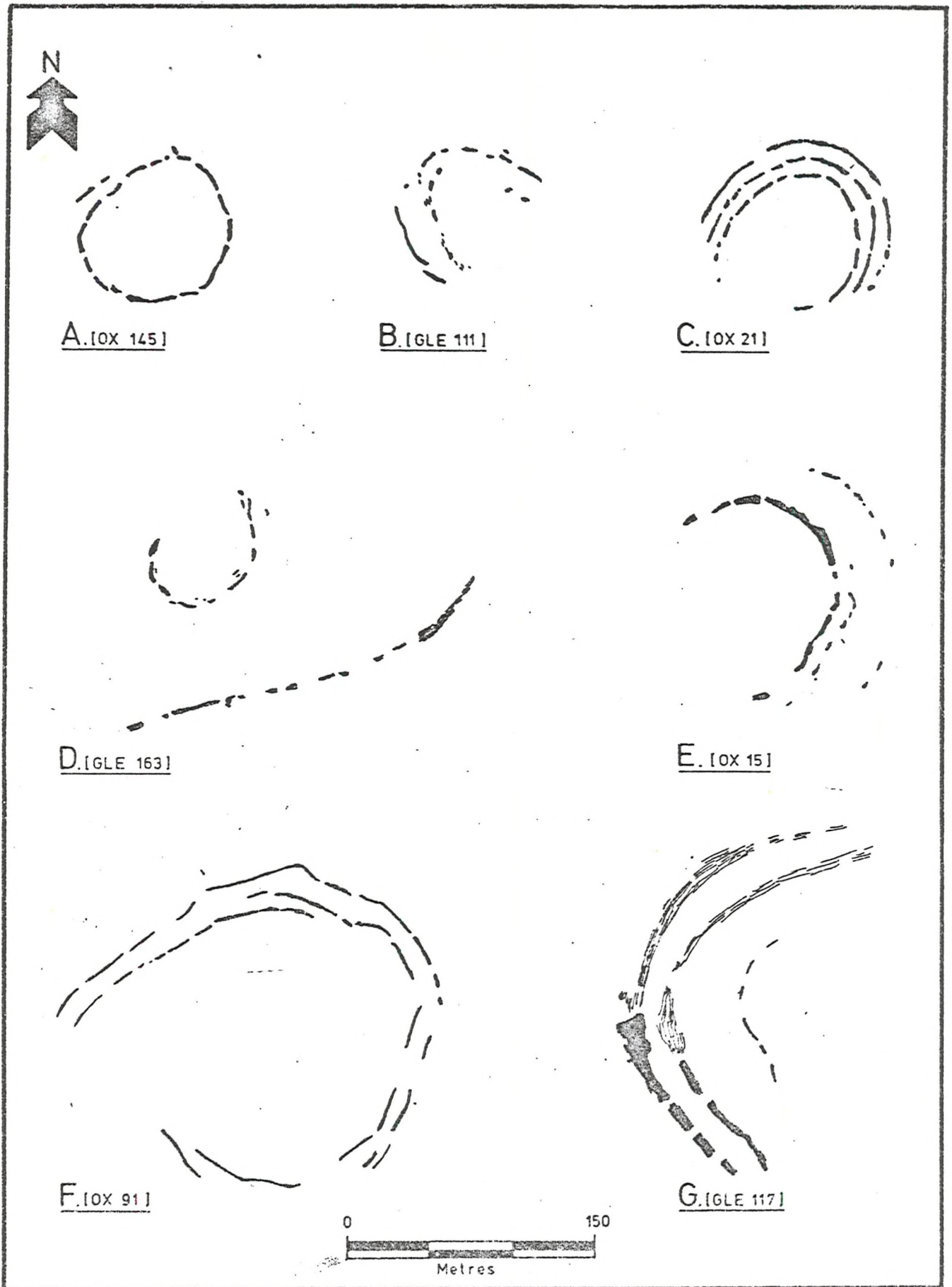


FIGURE 129. Plans of middle neolithic enclosures in the upper Thames Valley.
(Sources: various)

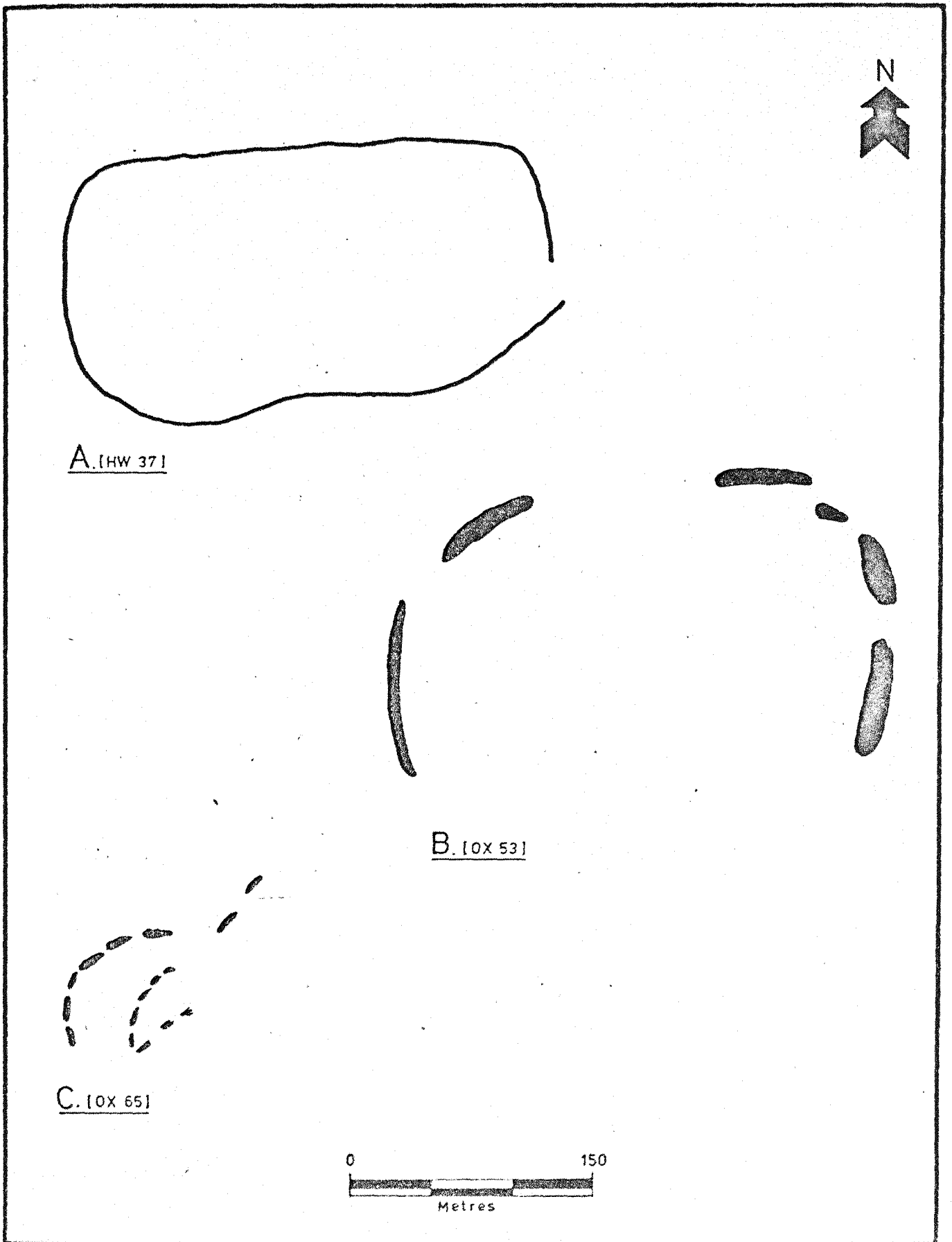


FIGURE 130. Plans of possible middle neolithic enclosures.
(Sources: various)

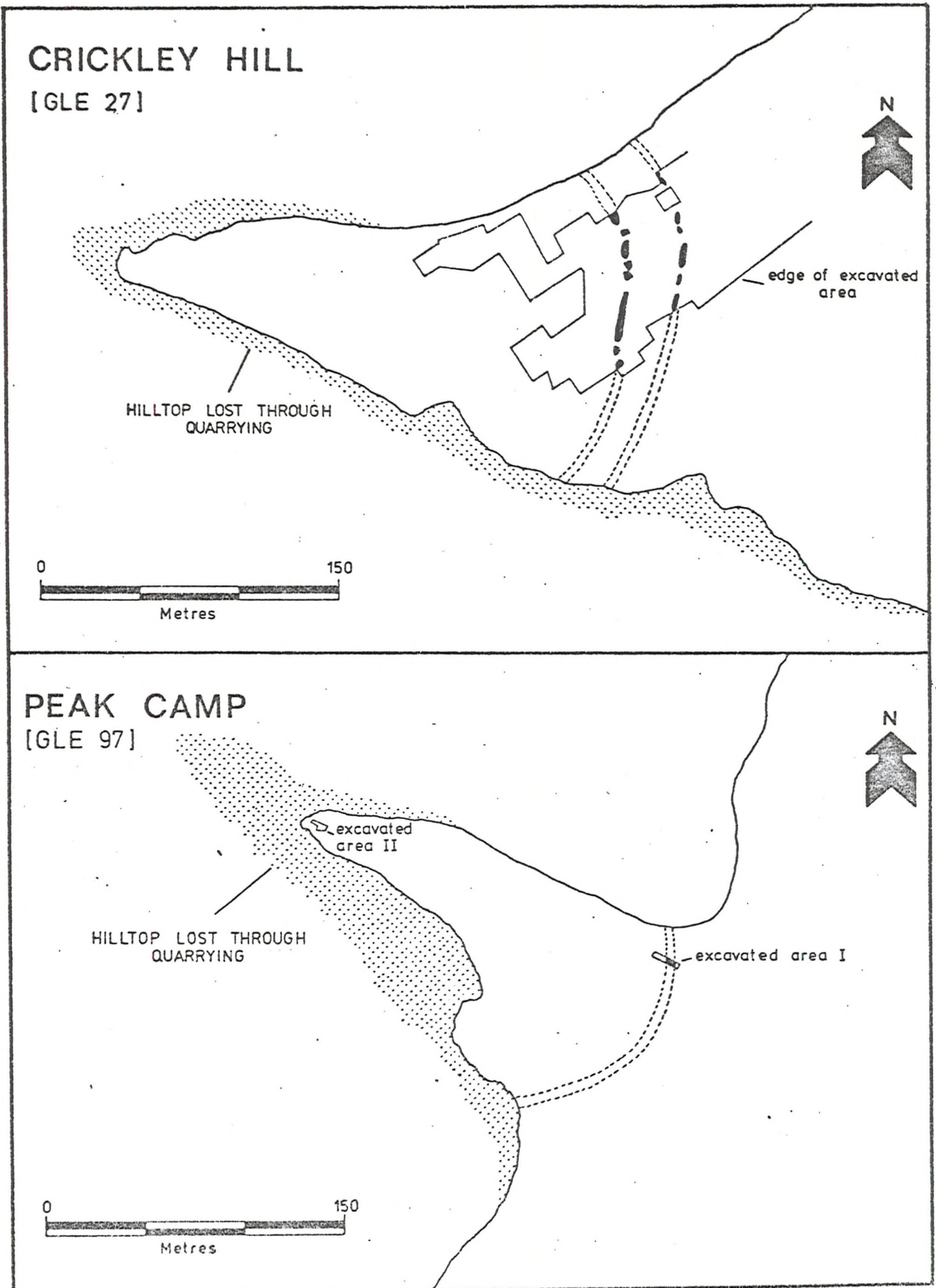


FIGURE 131. Plans of middle neolithic enclosures on the west Cotswolds.
(Sources: author and Dixon 1979)

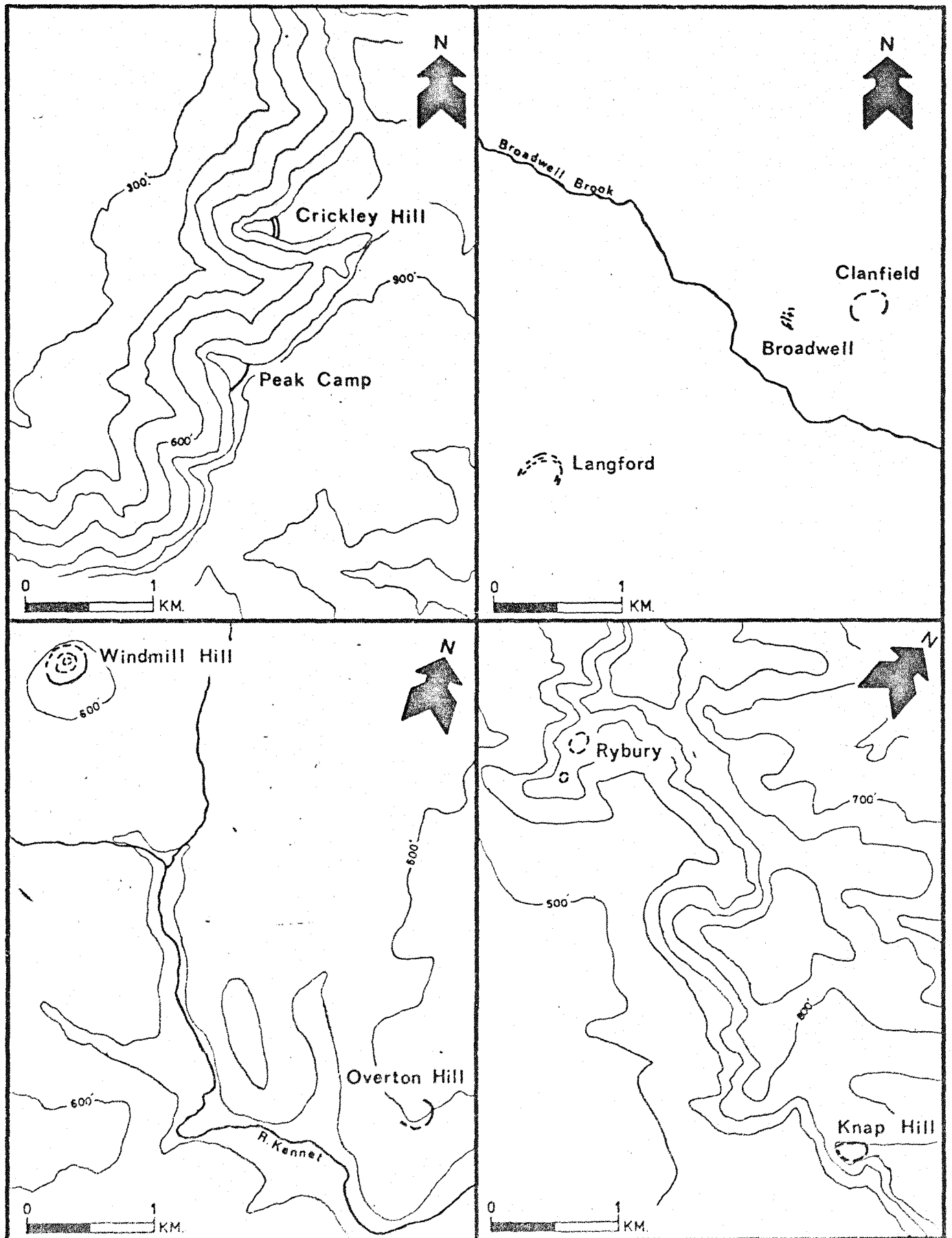
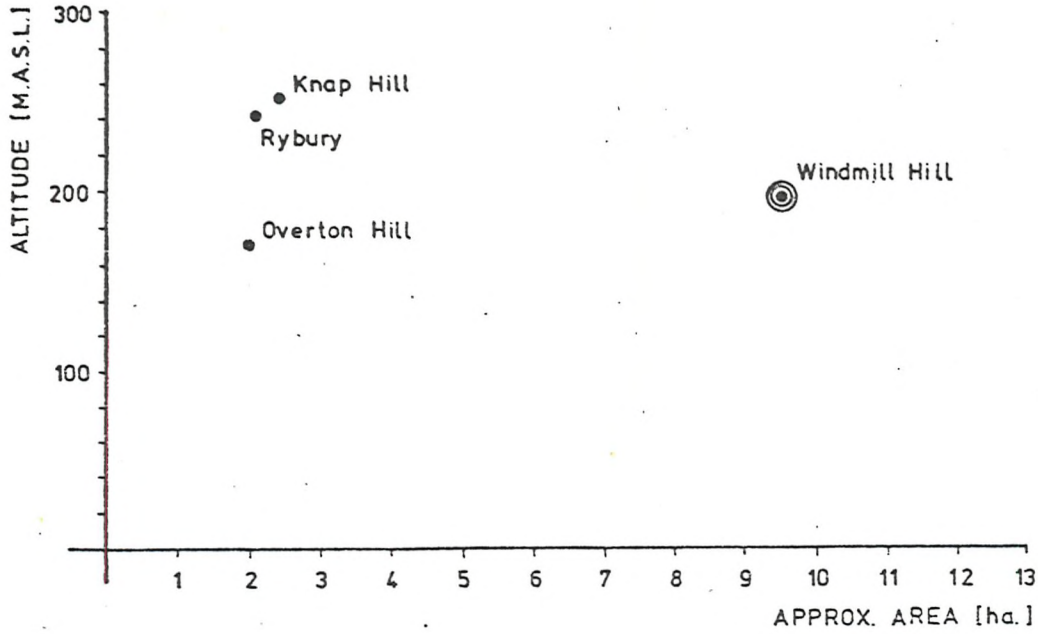
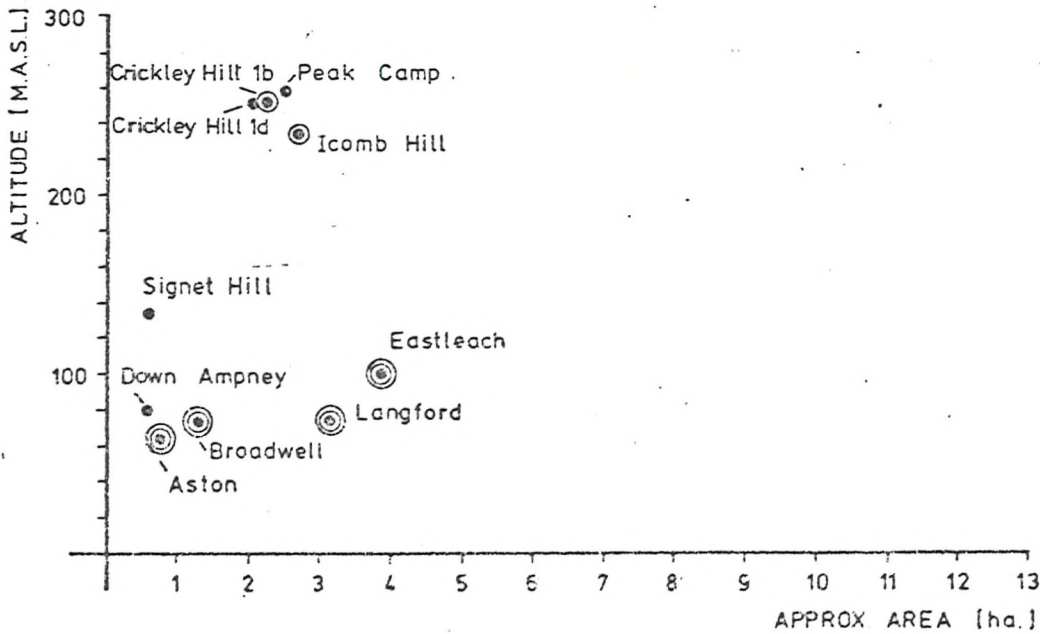


FIGURE 132. Recorded pairs/groups of middle neolithic enclosures.

NORTH-WEST WESSEX DOWNS.



COTSWOLDS AND UPPER THAMES VALLEY.



SINGLE DITCH ● DOUBLE DITCHED ⊗ TRIPLE DITCHED ⊙

FIGURE 133. Altitude/size distribution of middle neolithic enclosures.

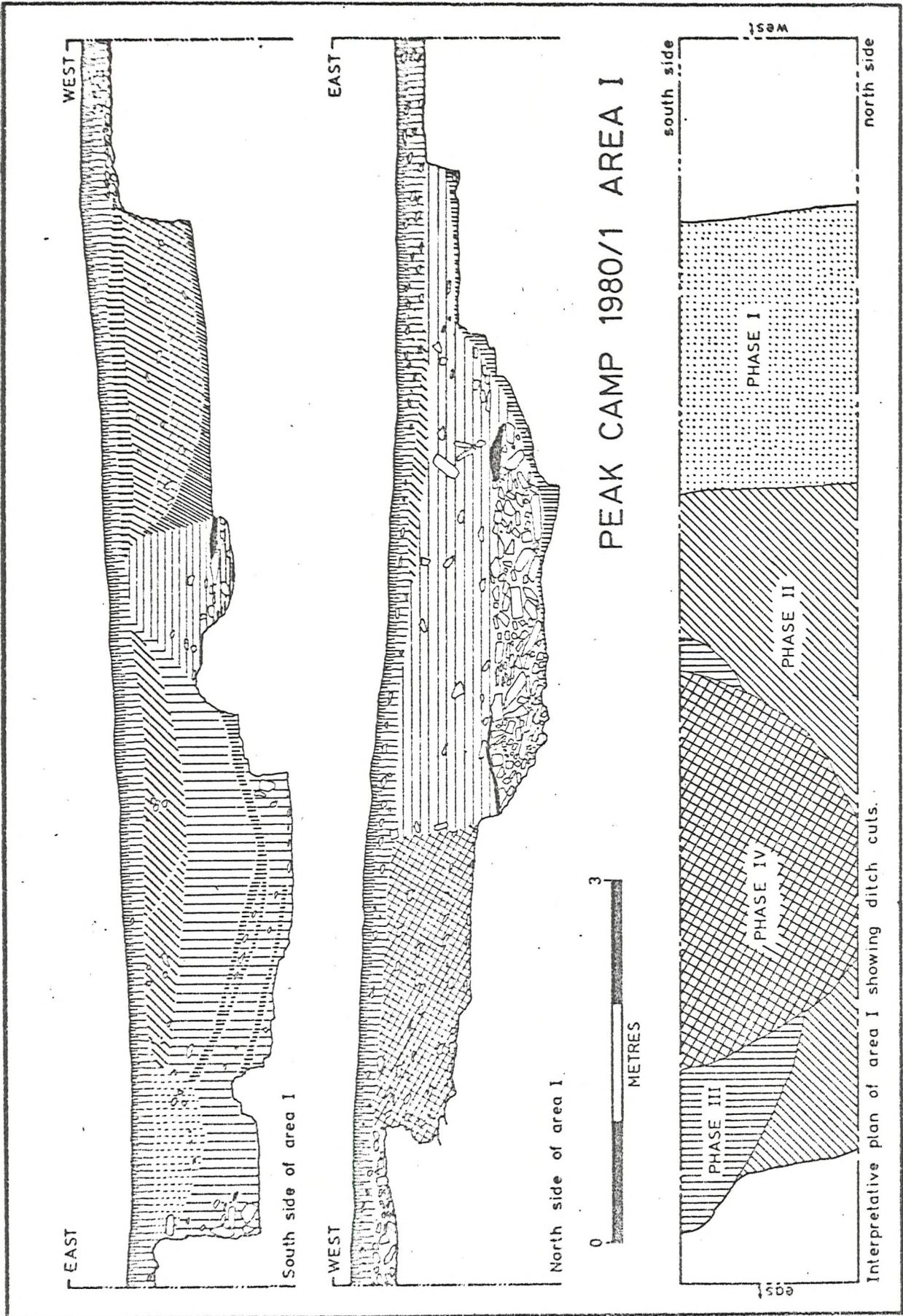


FIGURE 134. Section diagram from Area I at Peak Camp (GLE 97).

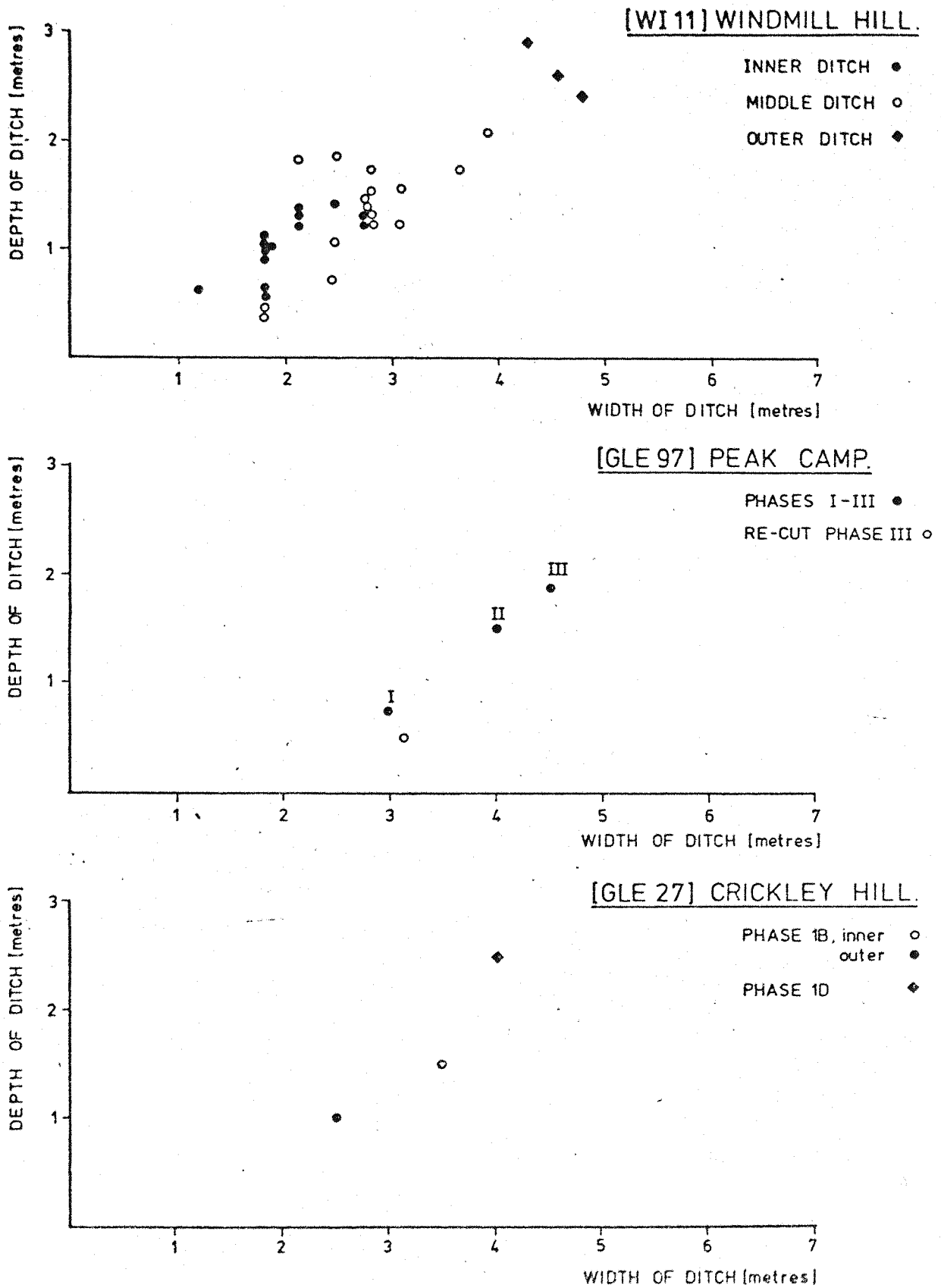
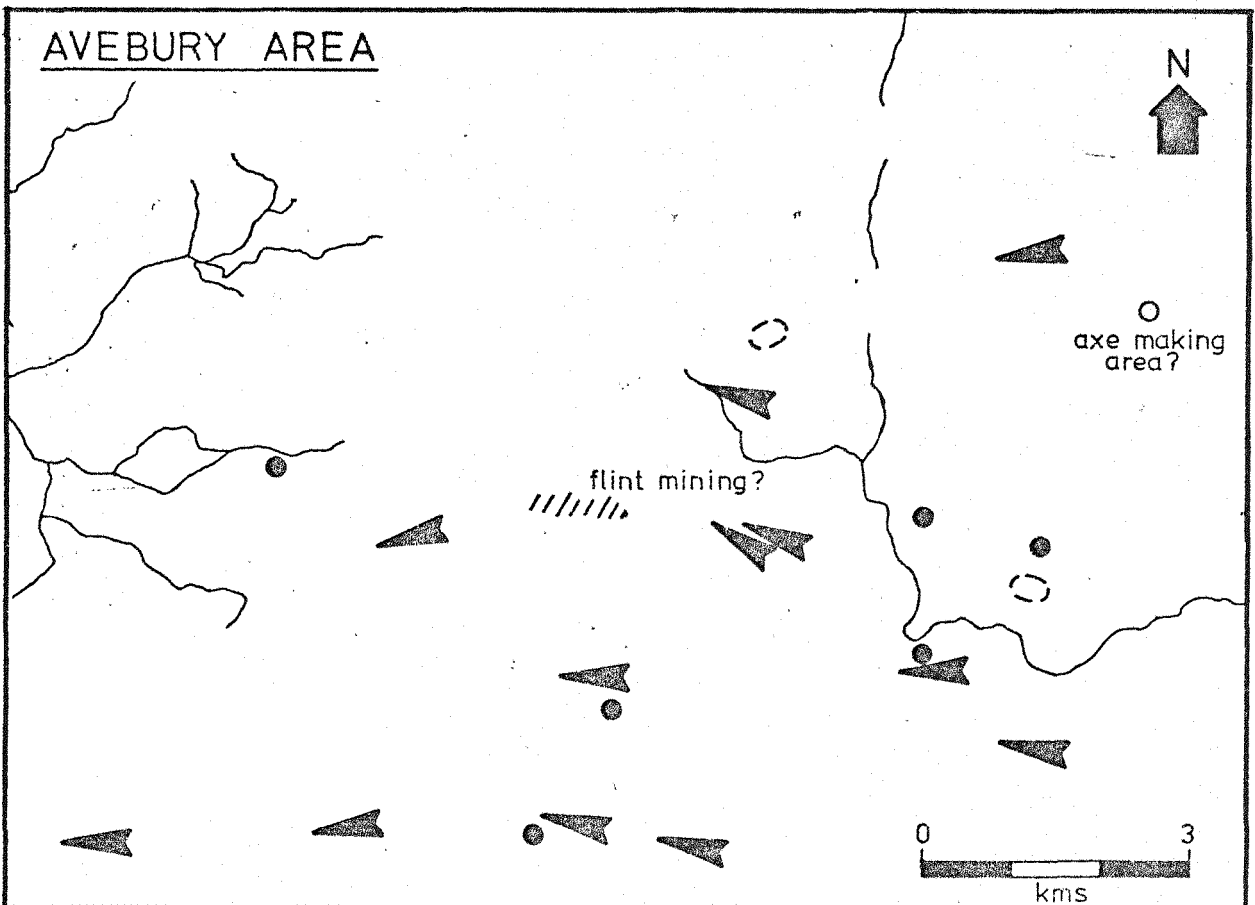
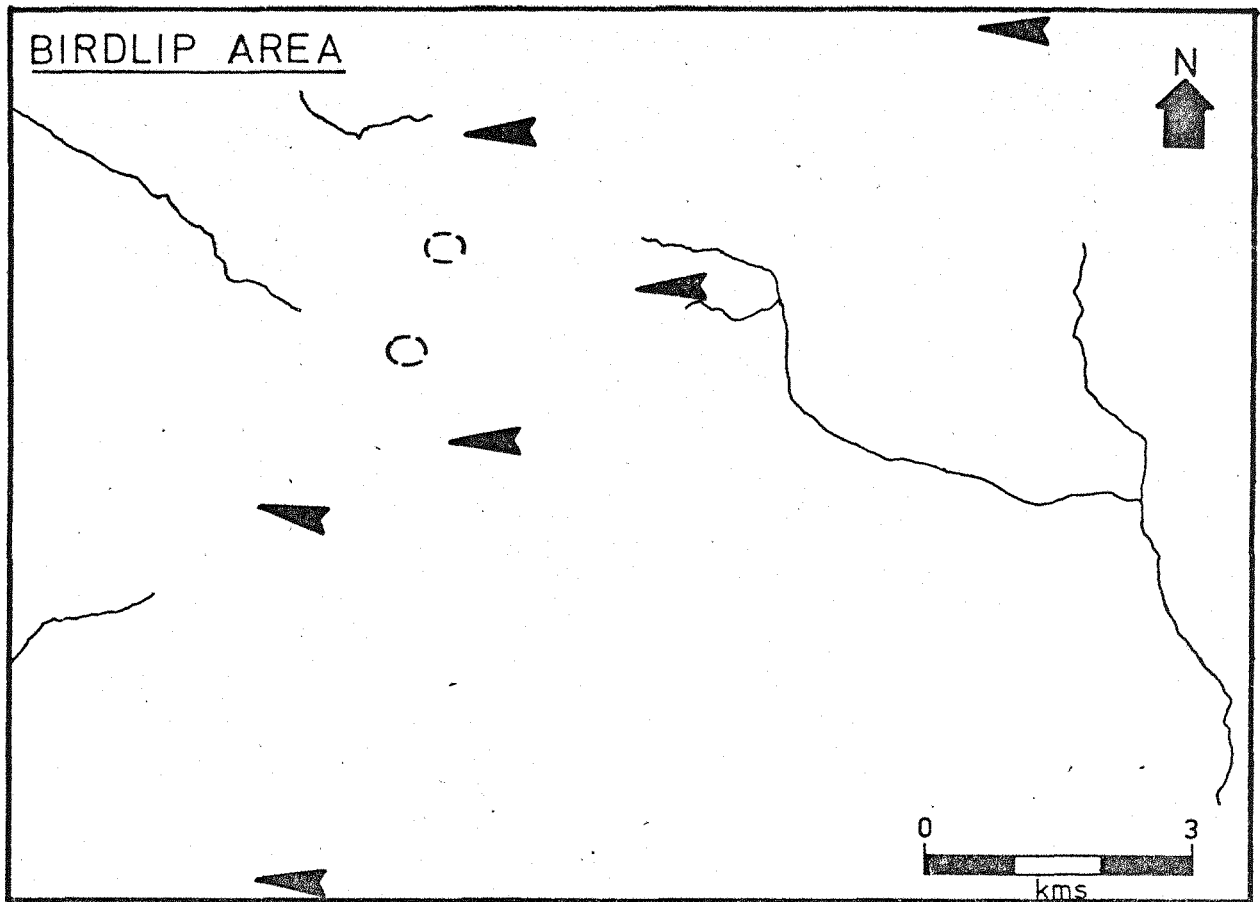


FIGURE 135. Ditch size distributions for selected middle neolithic enclosures.



▲ LONG BARROWS ● NON-ENCLOSED SETTLEMENTS ○ ENCLOSURES

FIGURE 136. Activity loci in the vicinity of selected middle neolithic enclosure groups.

UNENCLOSED PETERBOROUGH SETTLEMENTS.

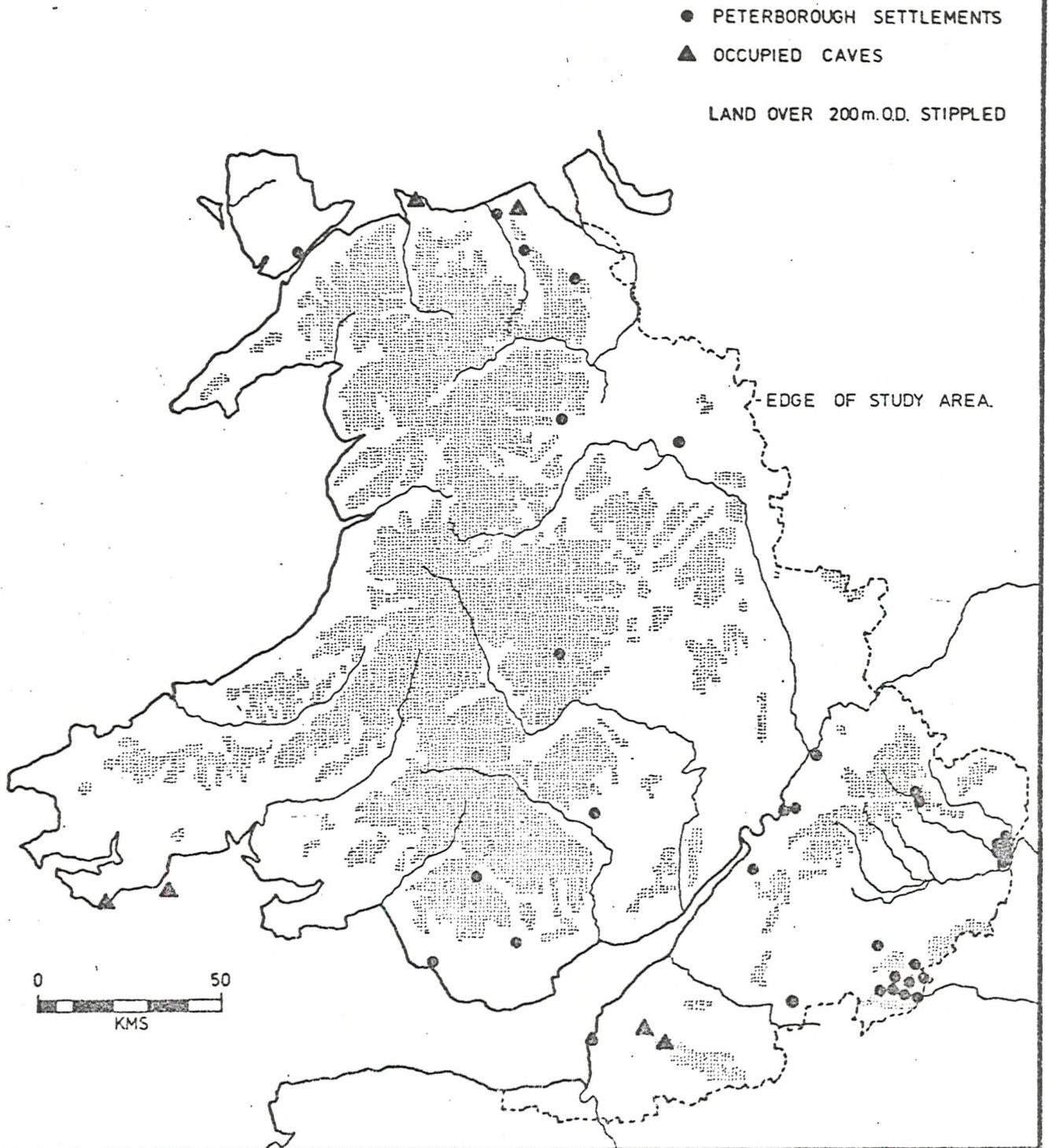
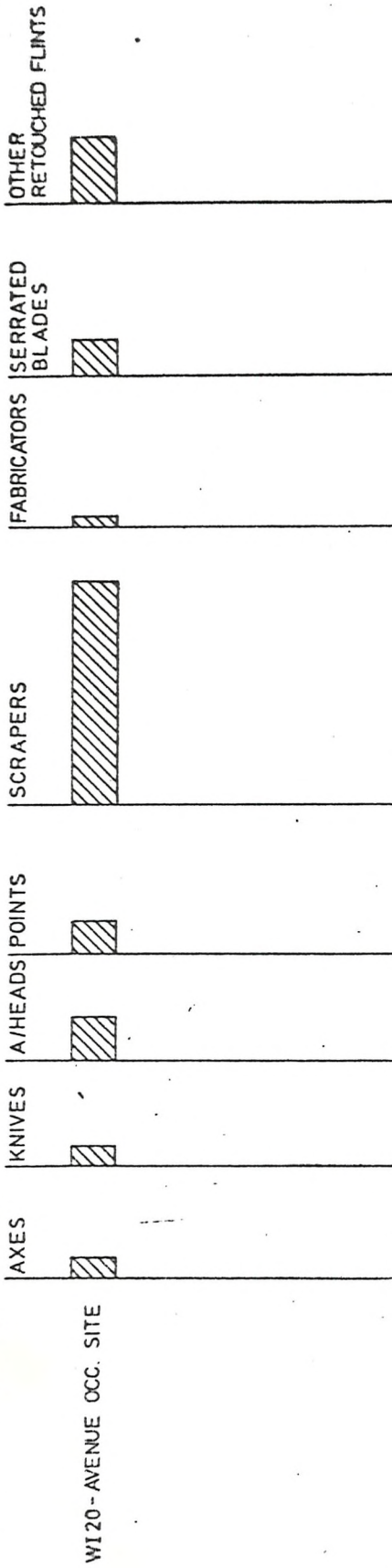


FIGURE 137. Distribution of unenclosed "Peterborough pottery" settlements.

IMPLEMENT FREQUENCY PROFILES - LATER NEOLITHIC.

A. Peterborough settlements.



B. Grooved ware & beaker settlements.

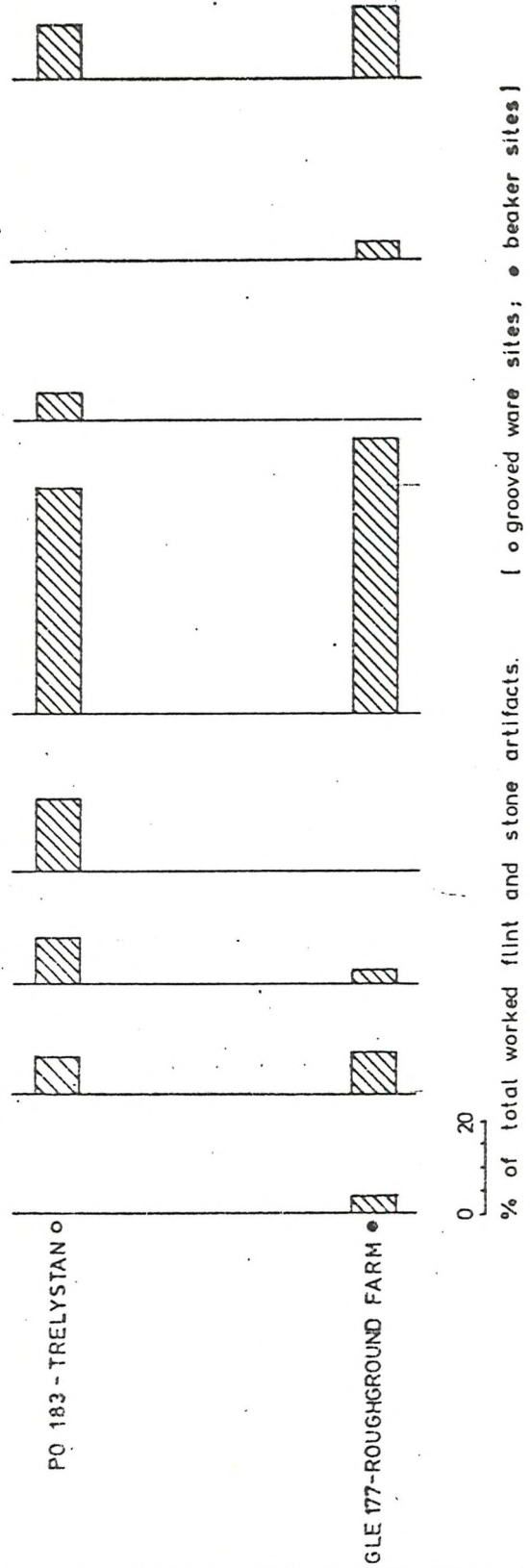


FIGURE 138. Implement frequency profiles - later neolithic.

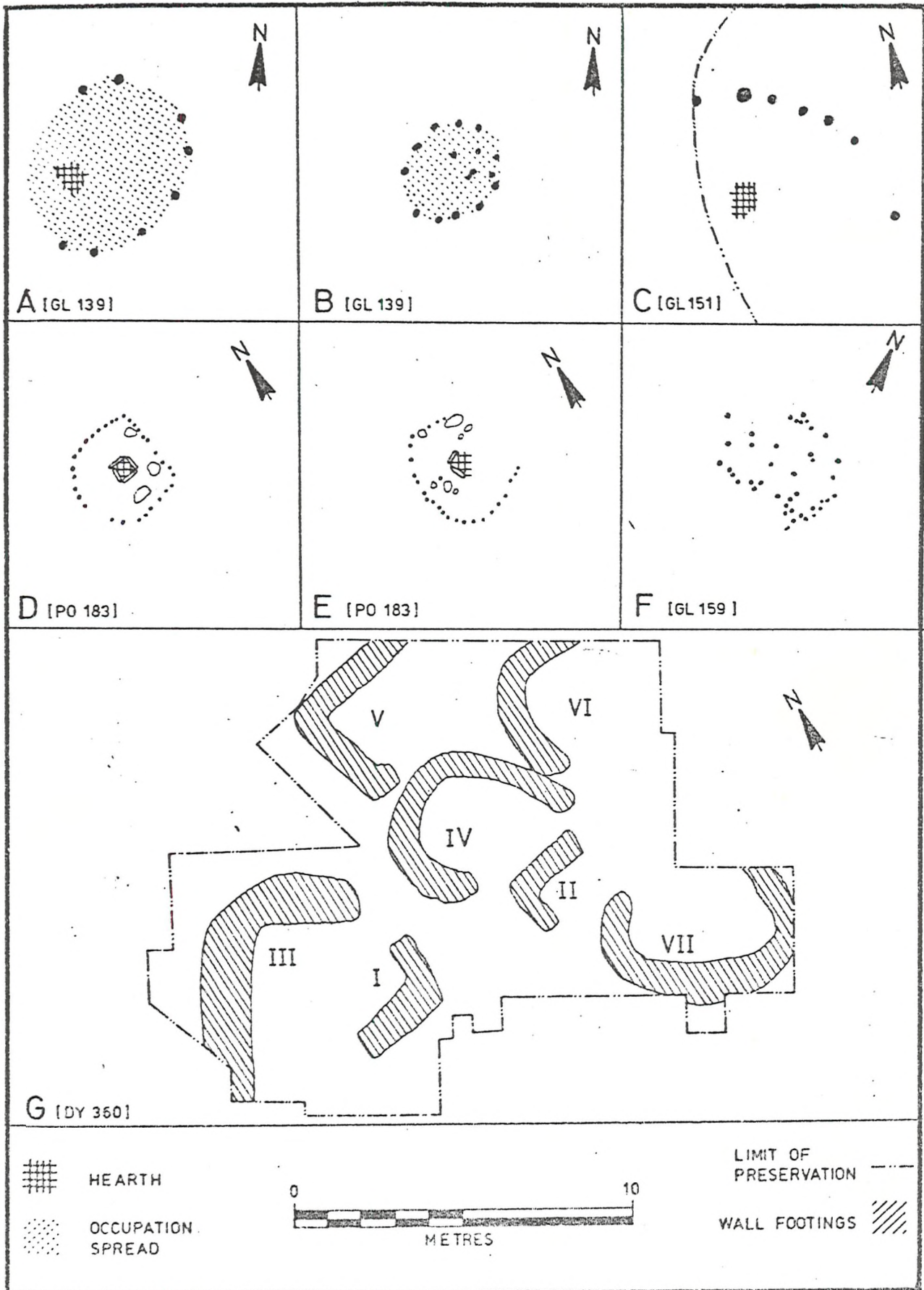


FIGURE 139. Ground plans of late neolithic and beaker period houses.
(Sources: various)

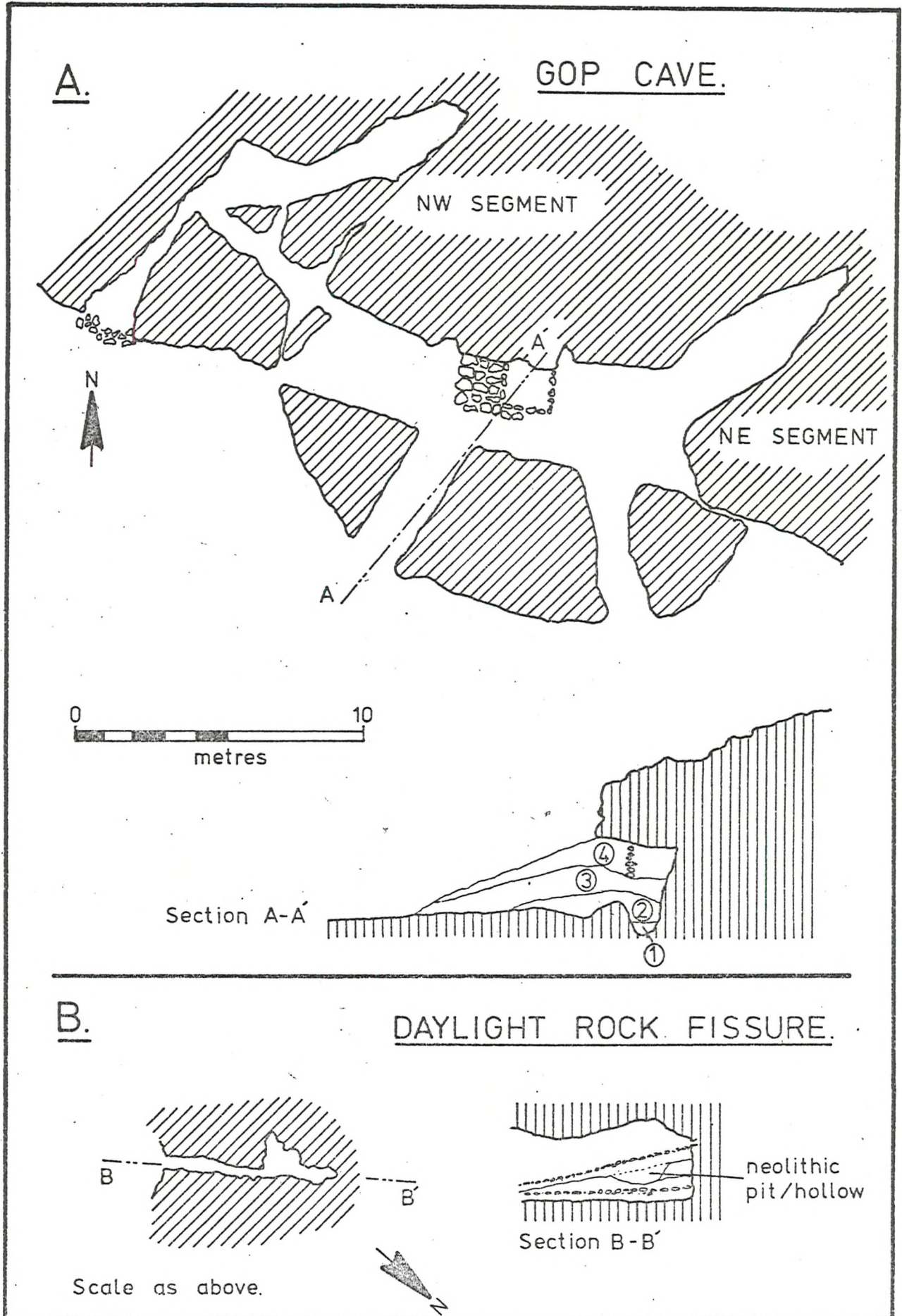


FIGURE 140. plans of late neolithic occupied caves. (Sources: various)

GROOVED WARE & BEAKER SETTLEMENTS.

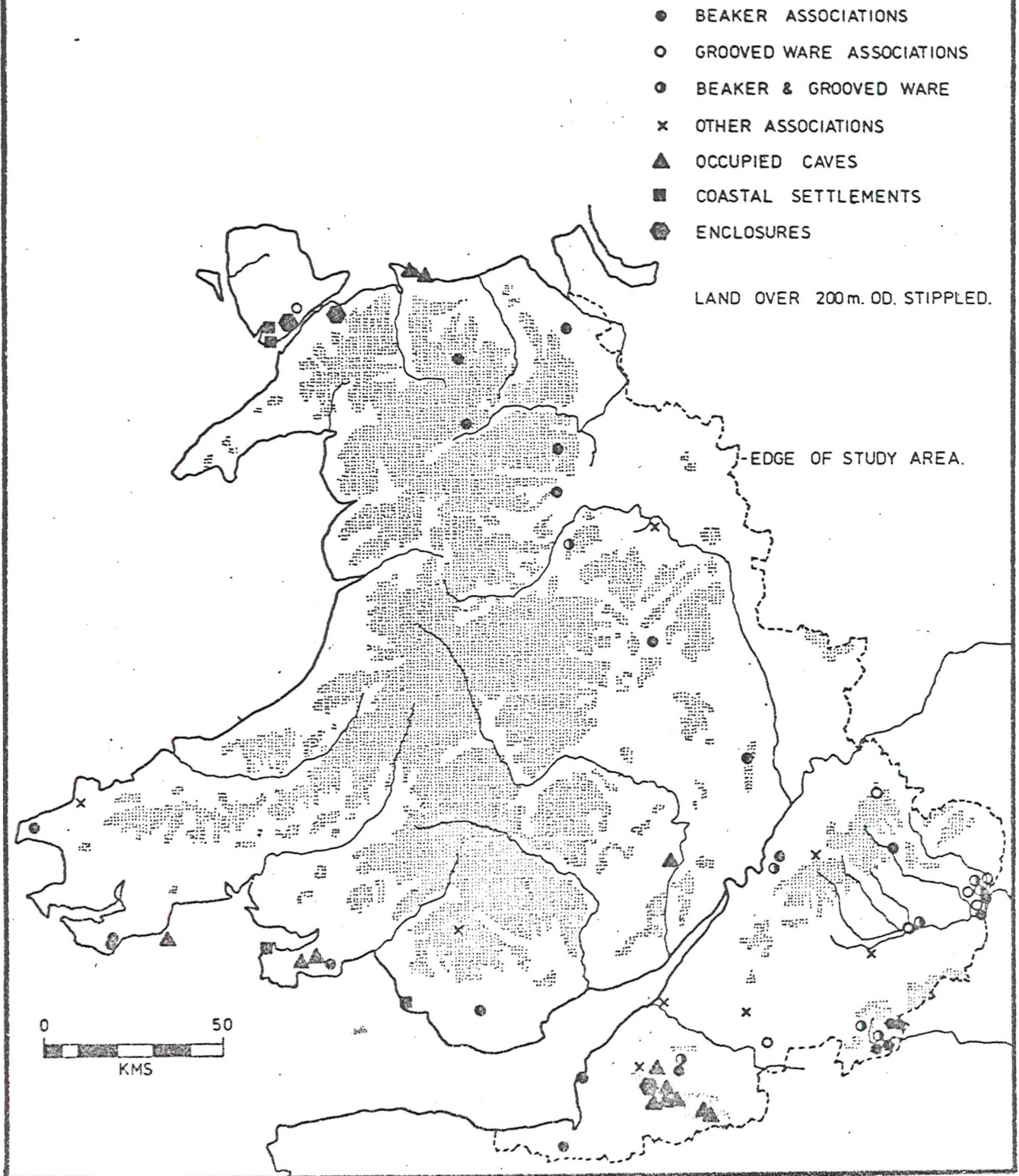


FIGURE 141. Distribution of grooved ware and beaker settlements.

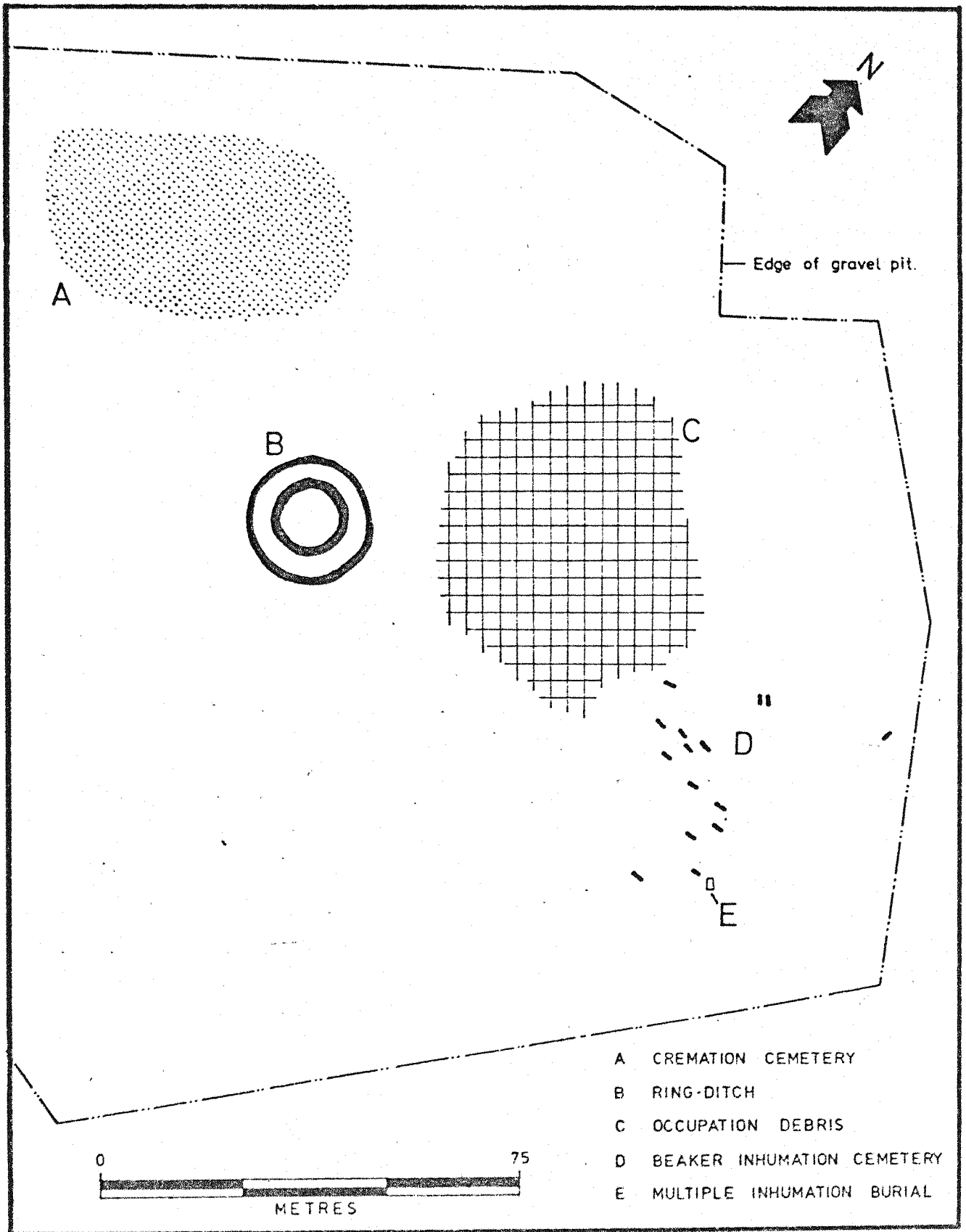


FIGURE 142. Plan showing activity distribution at Tolley's Pit (OX 26-29).
(Sources: various)

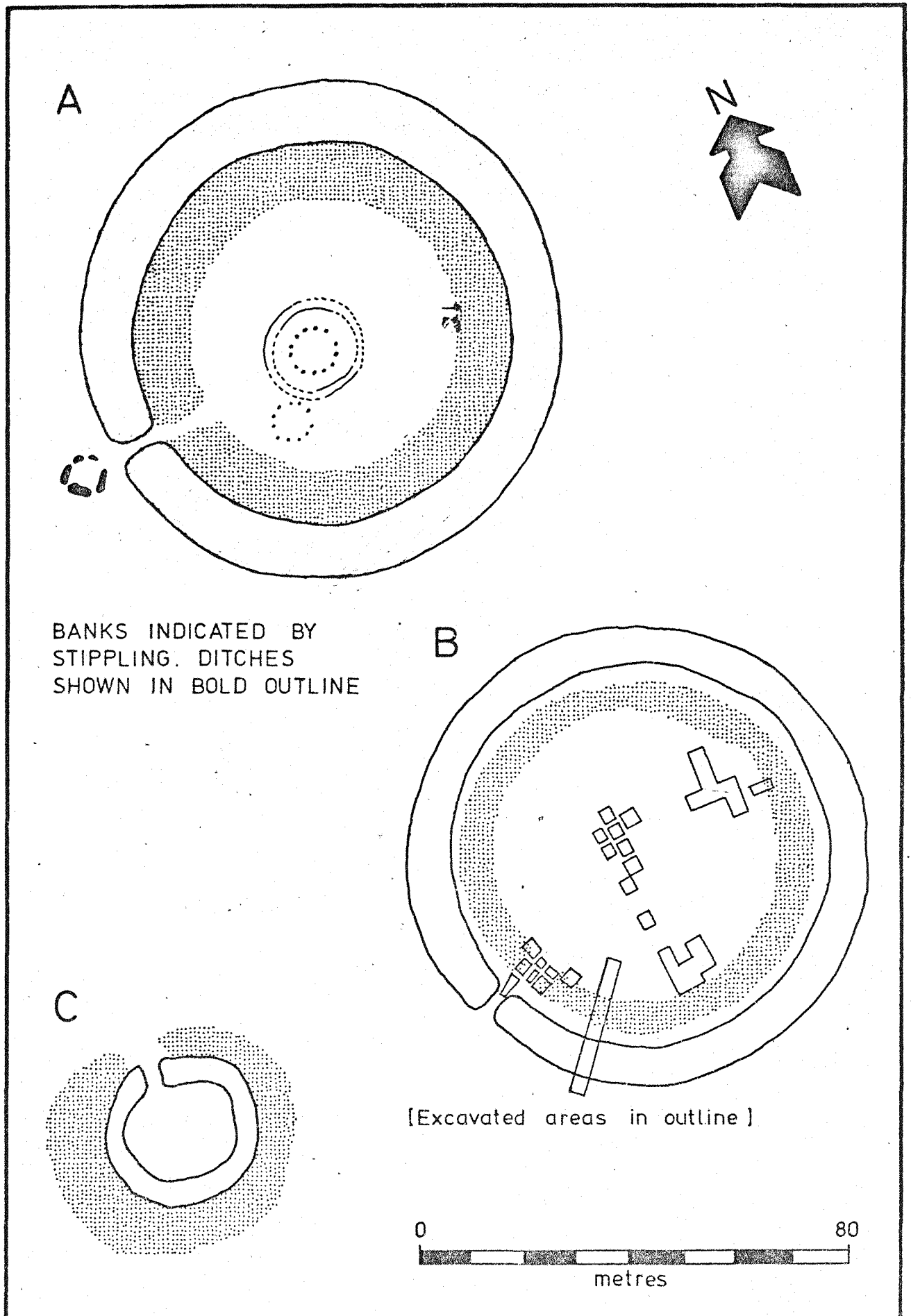


FIGURE 143. Late neolithic/beaker period enclosed settlements. (Sources: various)

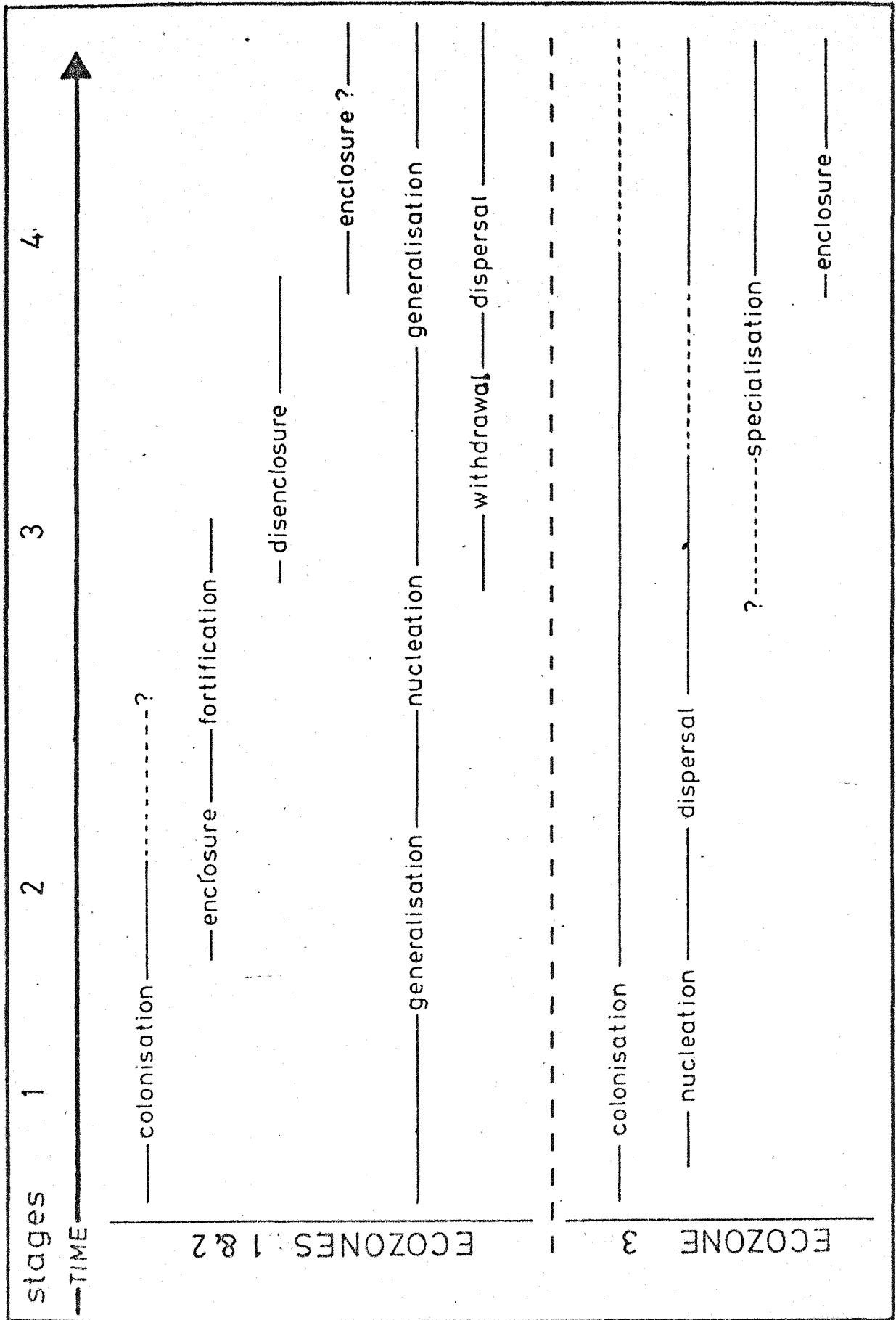


FIGURE 144. Summary of trajectory processes defined for population activities.

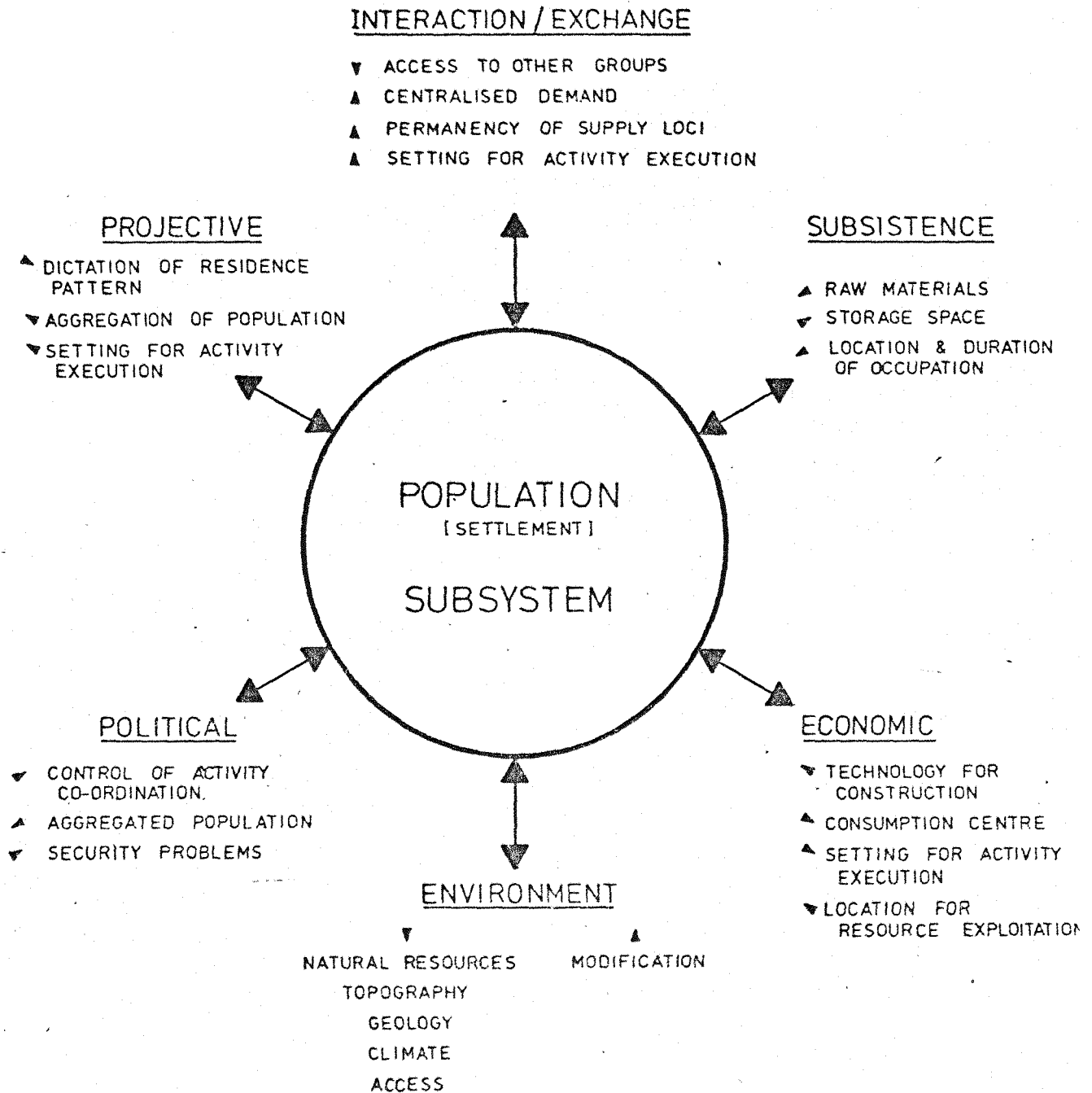


FIGURE 145. Summary of inputs and outputs relating to the population subsystem.

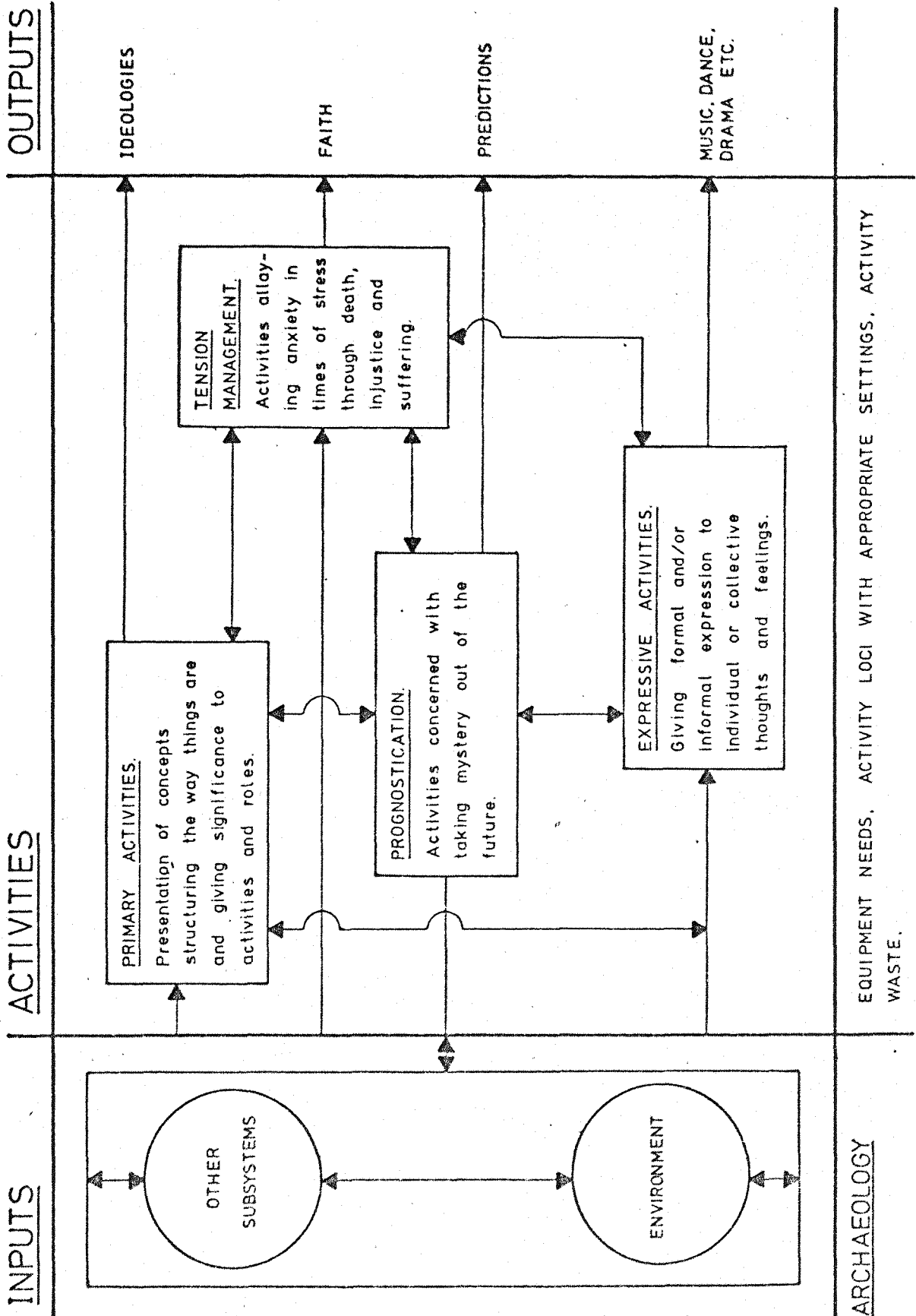


FIGURE 146. Schematic summary of the internal relationships within the projective subsystem.

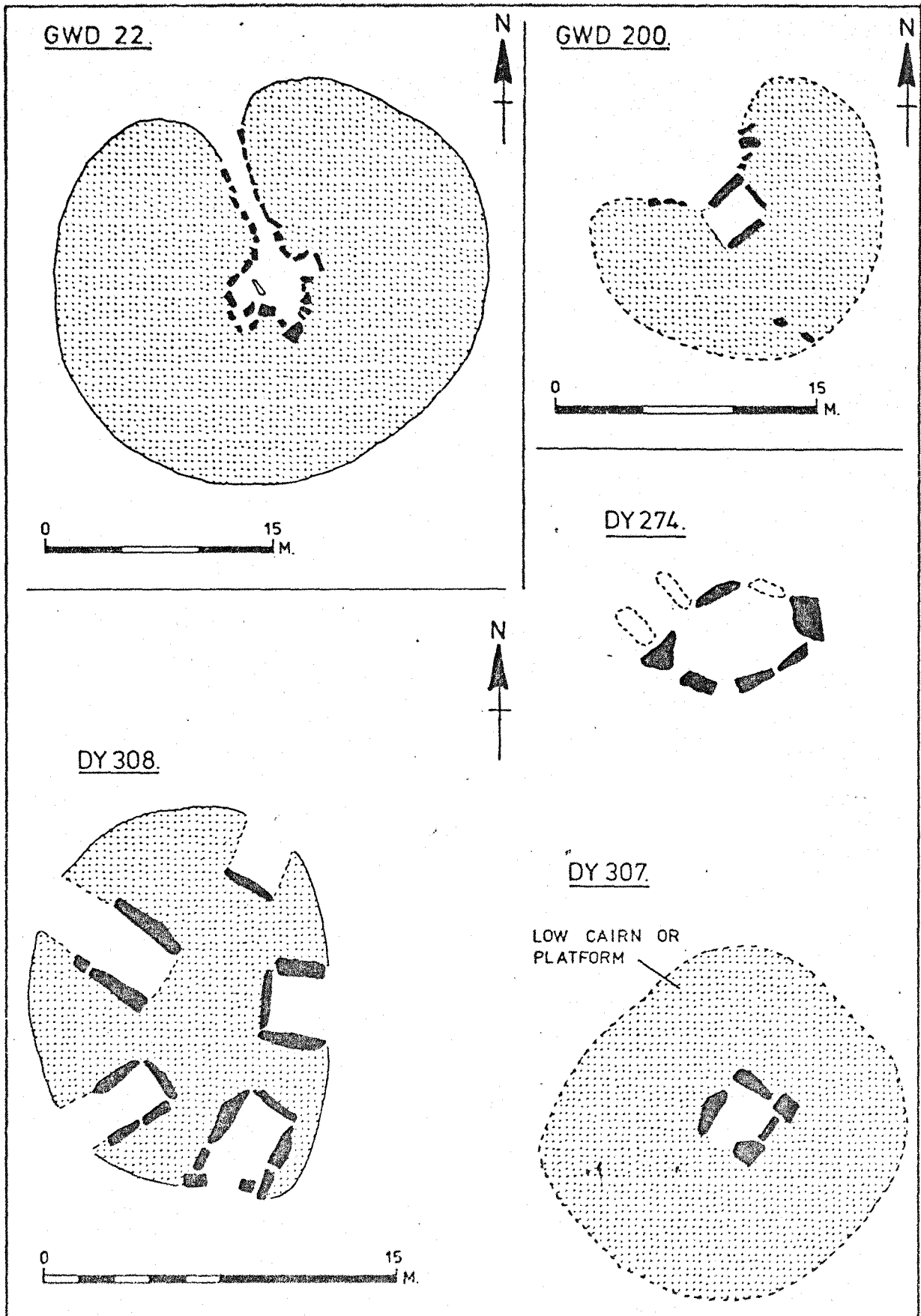


FIGURE 148. Selected types of megalithic tomb. (Sources: various)

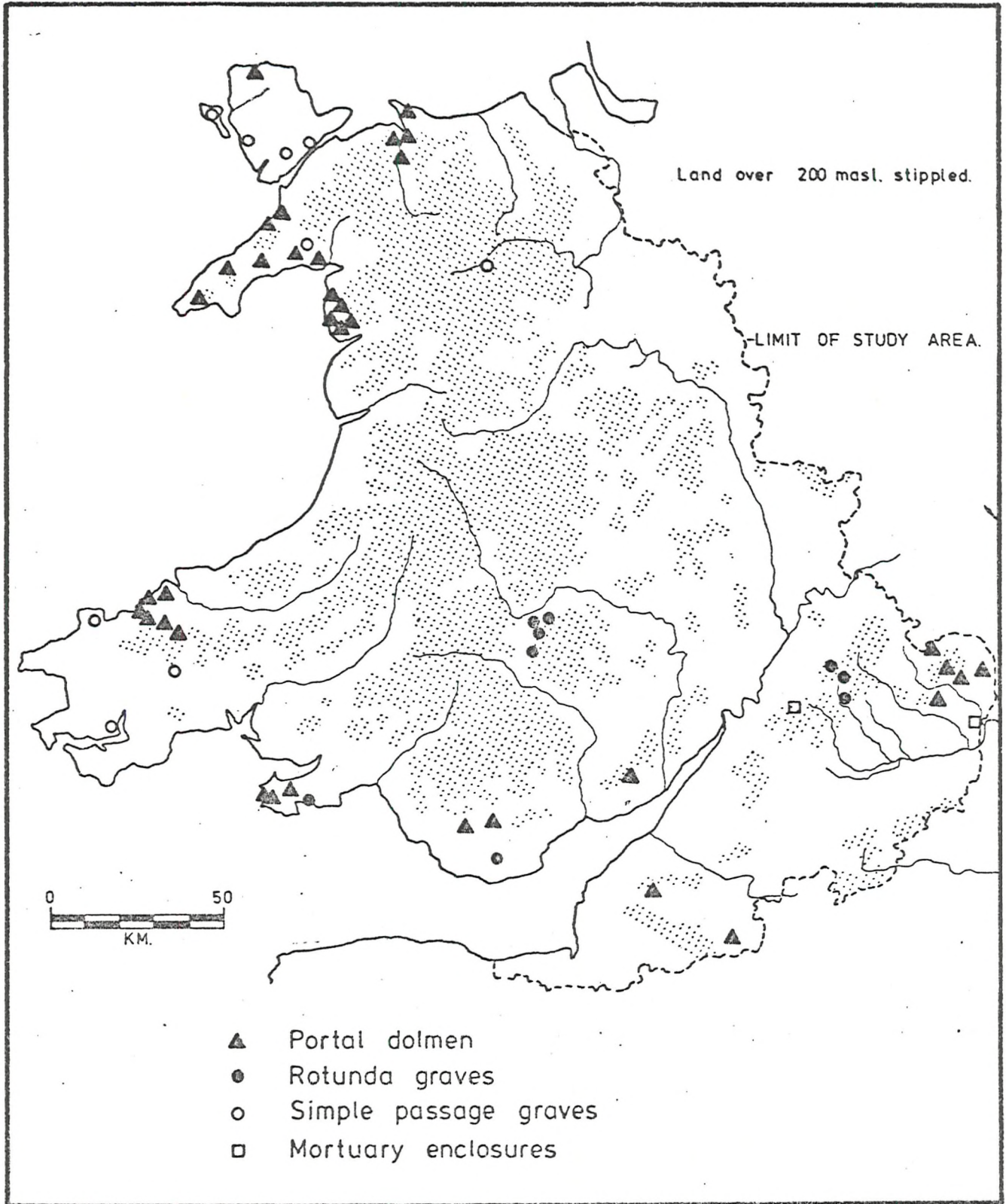
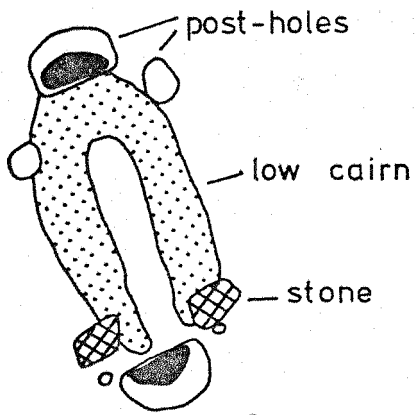


FIGURE 149. Distribution of stage 1 burial structures.

OX 5.



(scale approximate)



OX 69.

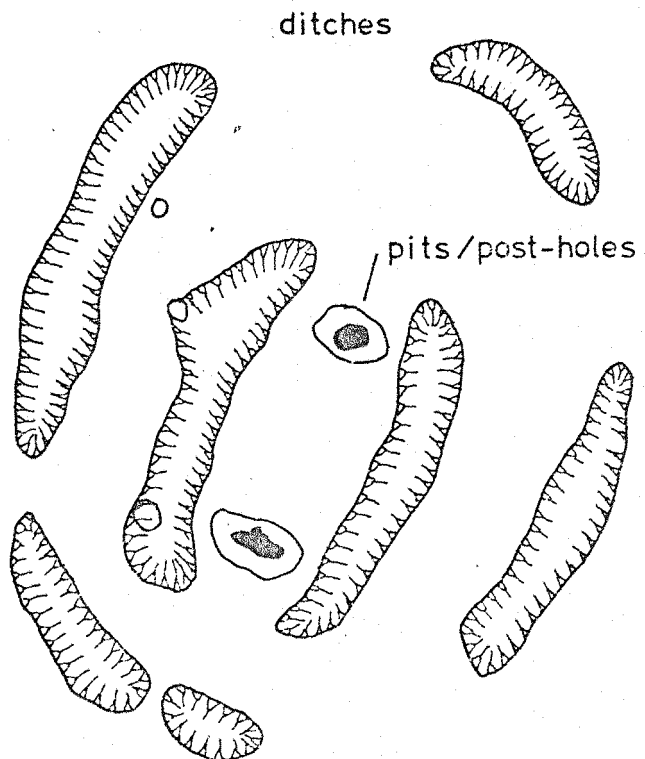


FIGURE 150. Stage 1/2 mortuary enclosure (OX 69) and mortuary house (OX 5).
(Sources: various)

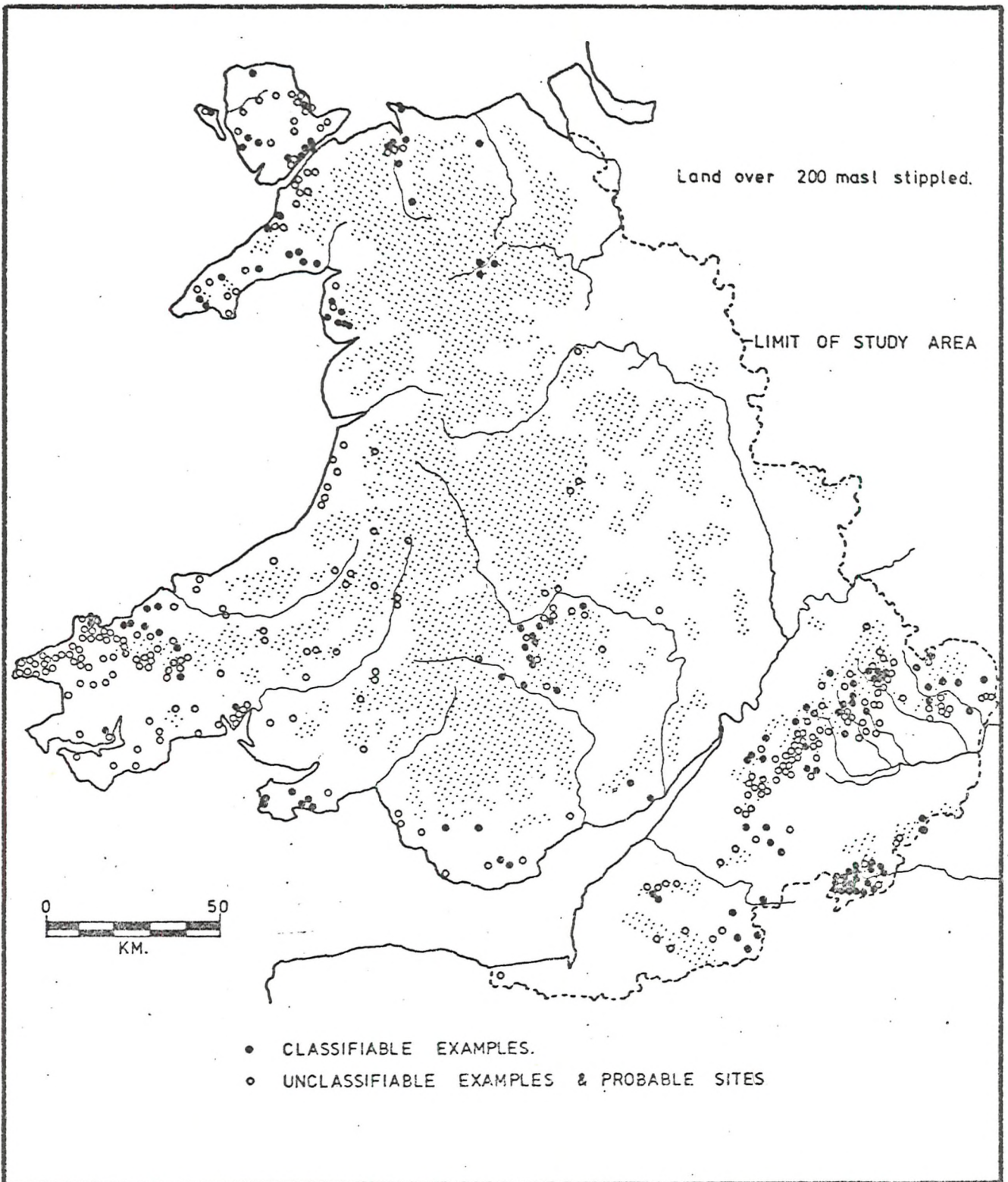


FIGURE 151. Distribution of stage 1,2 and 3 chambered tombs and earthen long barrows.

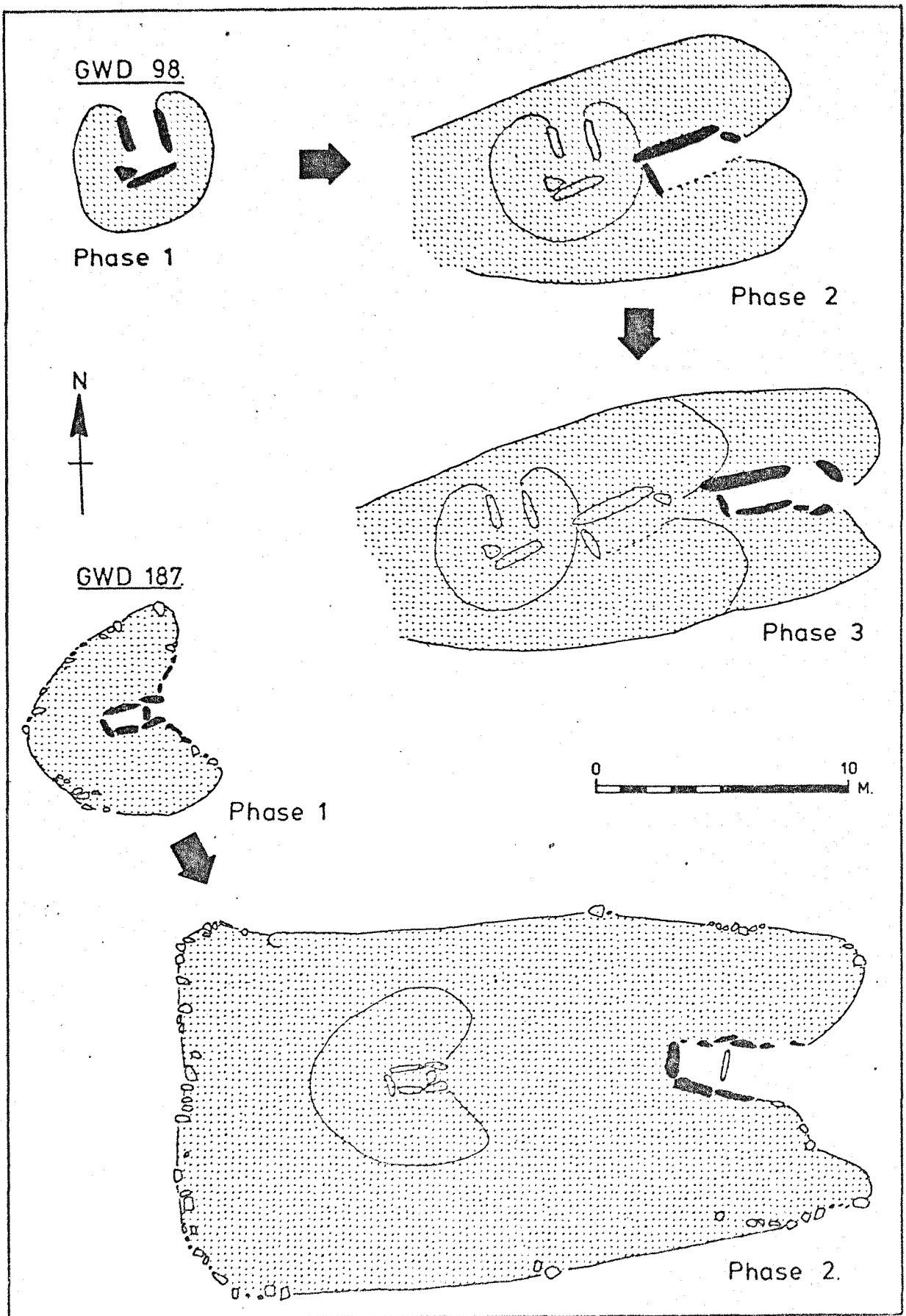


FIGURE 152. Multi-phase chambered tombs in north Wales. (Sources: various)

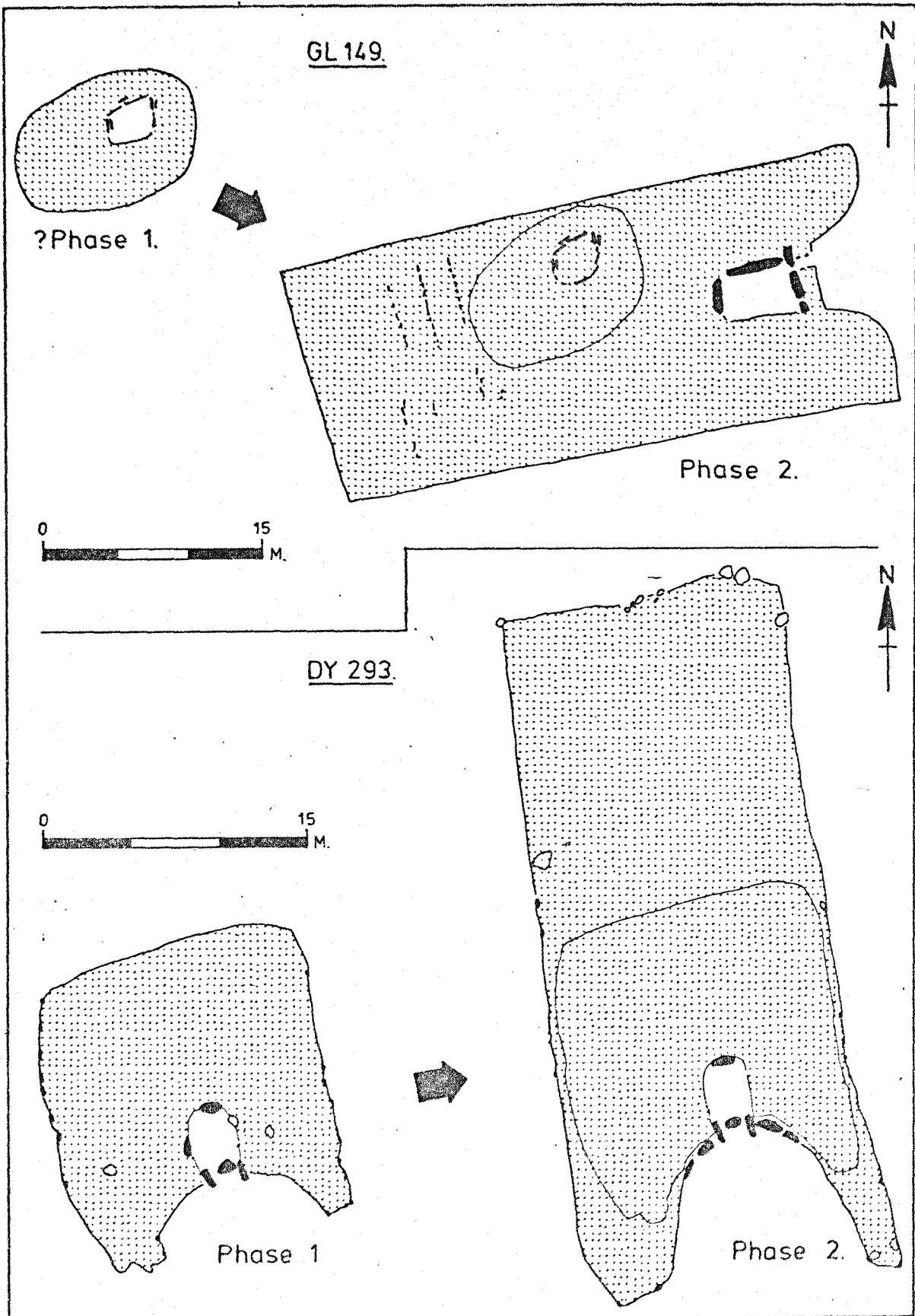


FIGURE 153. Tentative reconstructions of multi-phase tombs in south Wales. (Sources: various)

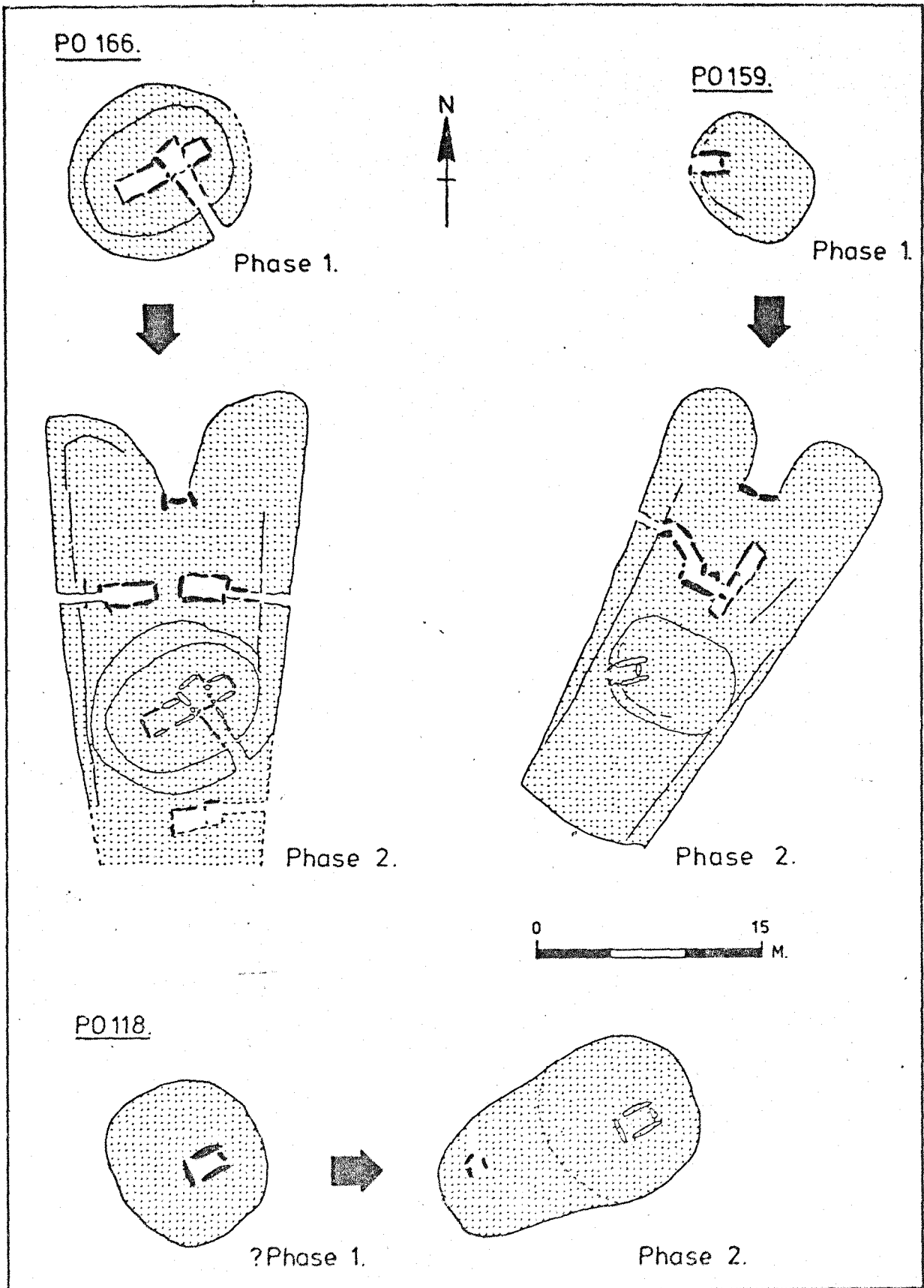


FIGURE 154. Tentative reconstructions of multi-phase tombs in mid Wales.
(Sources: various)

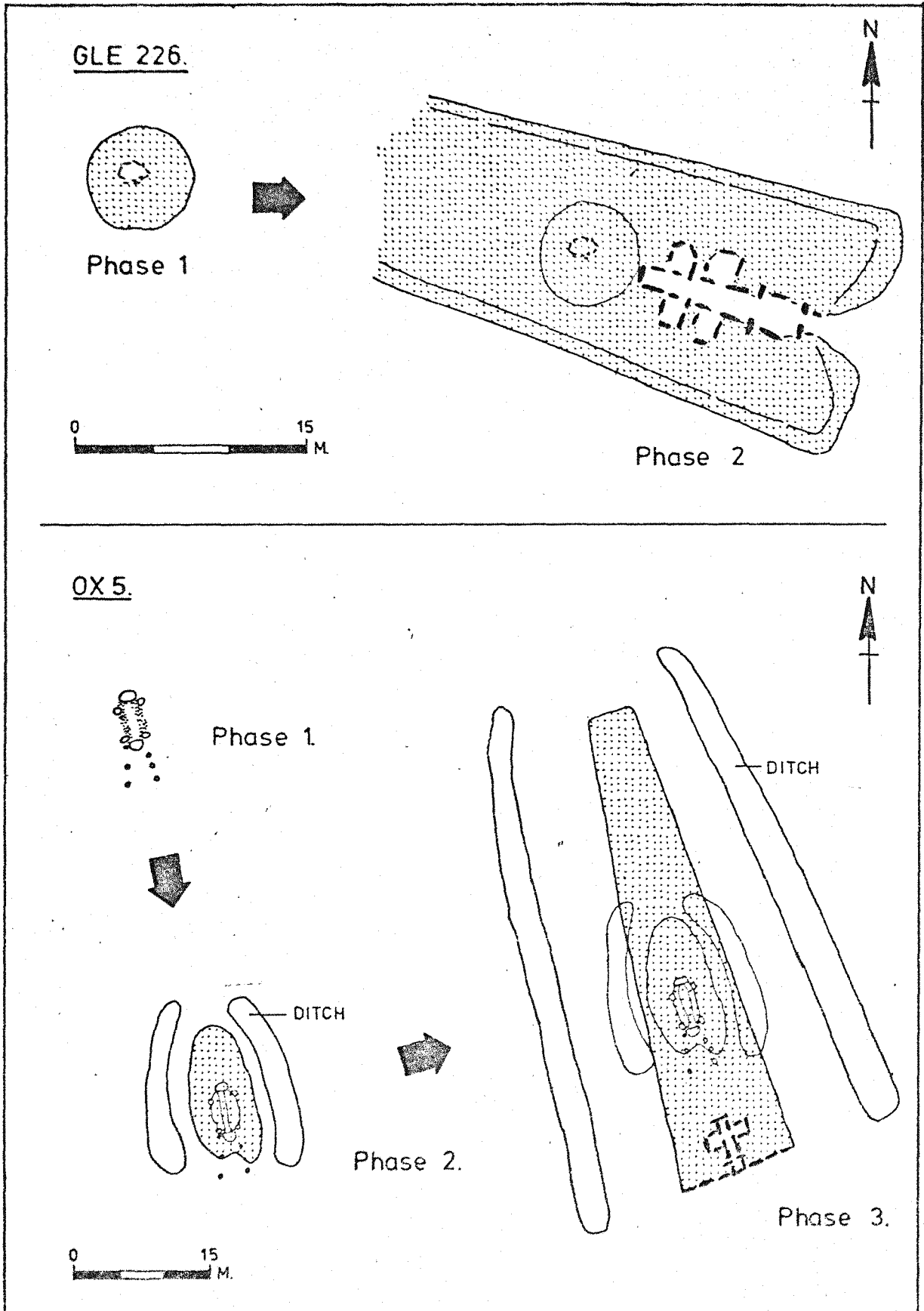


FIGURE 155. Multi-period chambered tombs in the Cotswolds and north Wessex. (Sources: various)

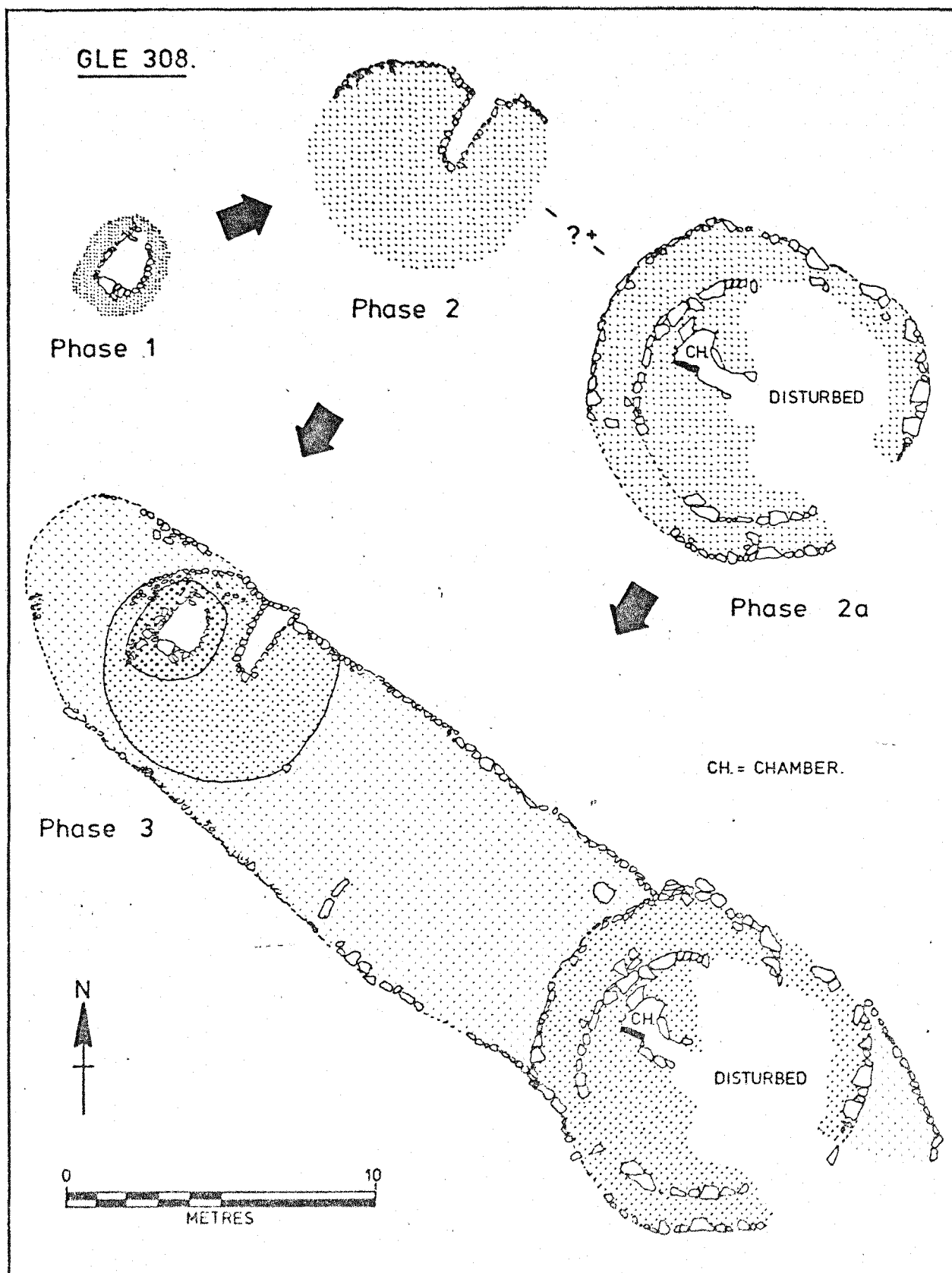


FIGURE 156. Provisional reconstruction of phasing at Sale's Lot (GLE 308).
(Plan after O'Neil 1966)

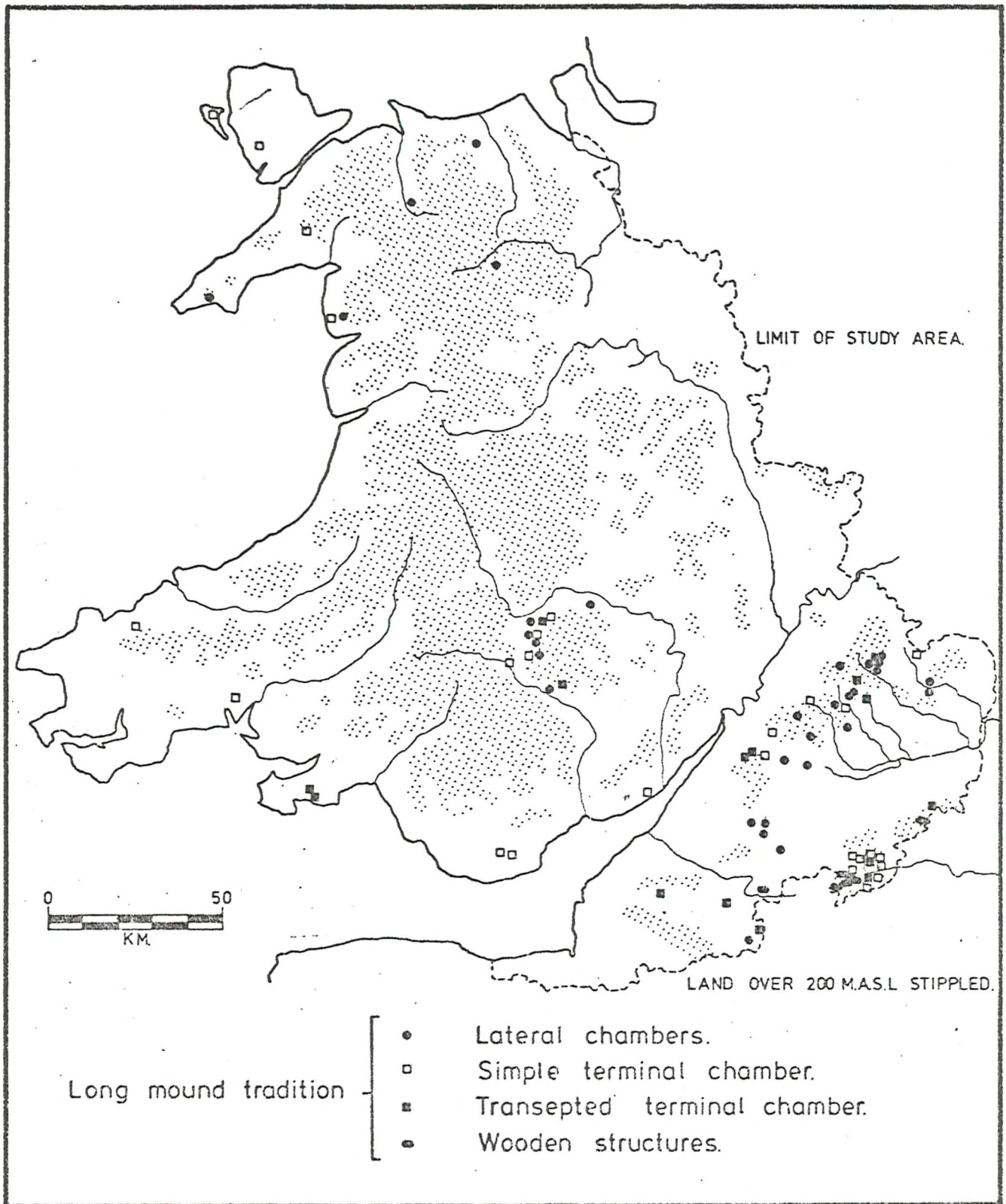
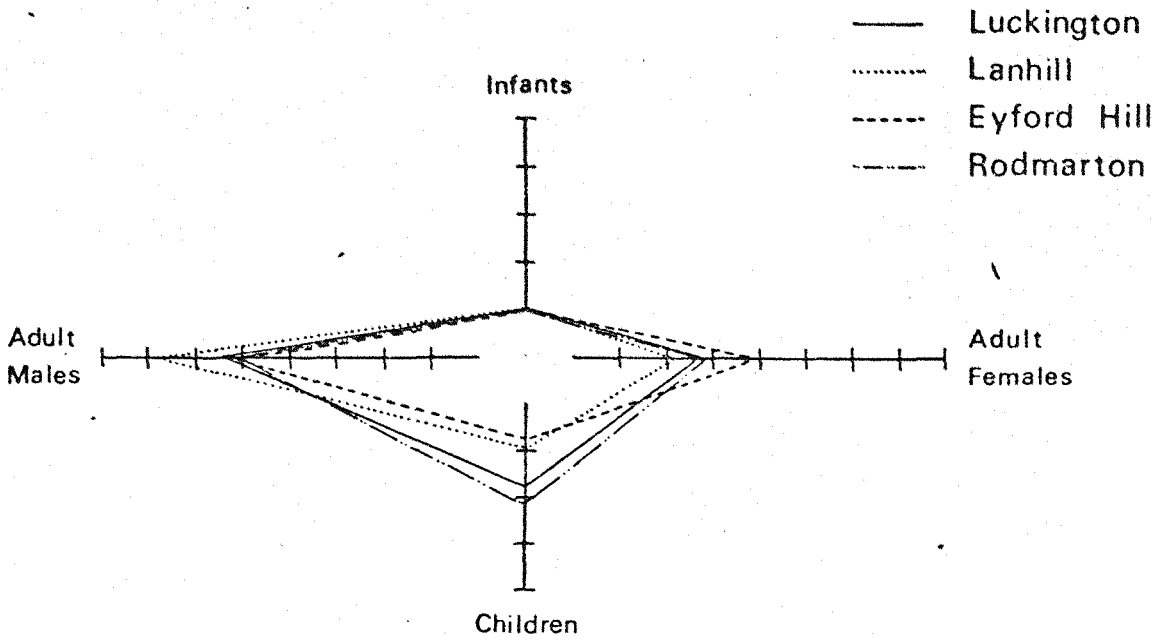


FIGURE 157 Distribution of classifiable tombs in the long mound tradition.

LATERAL CHAMBERED TOMBS



TERMINAL CHAMBERED TOMBS

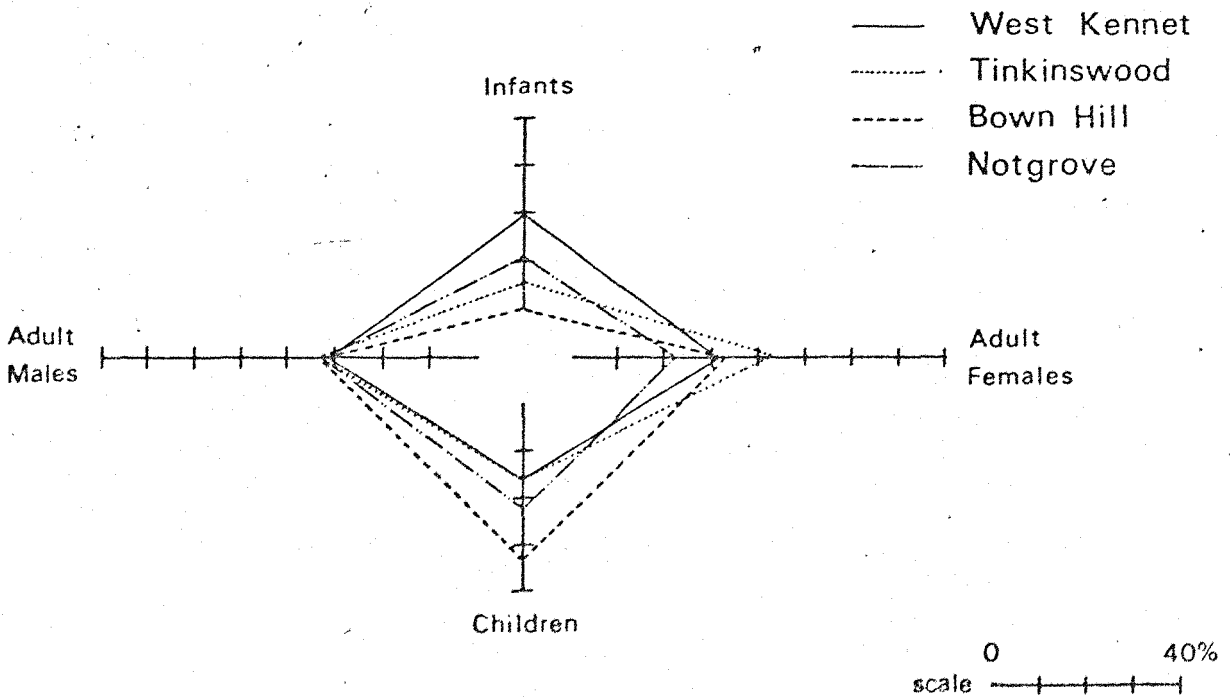
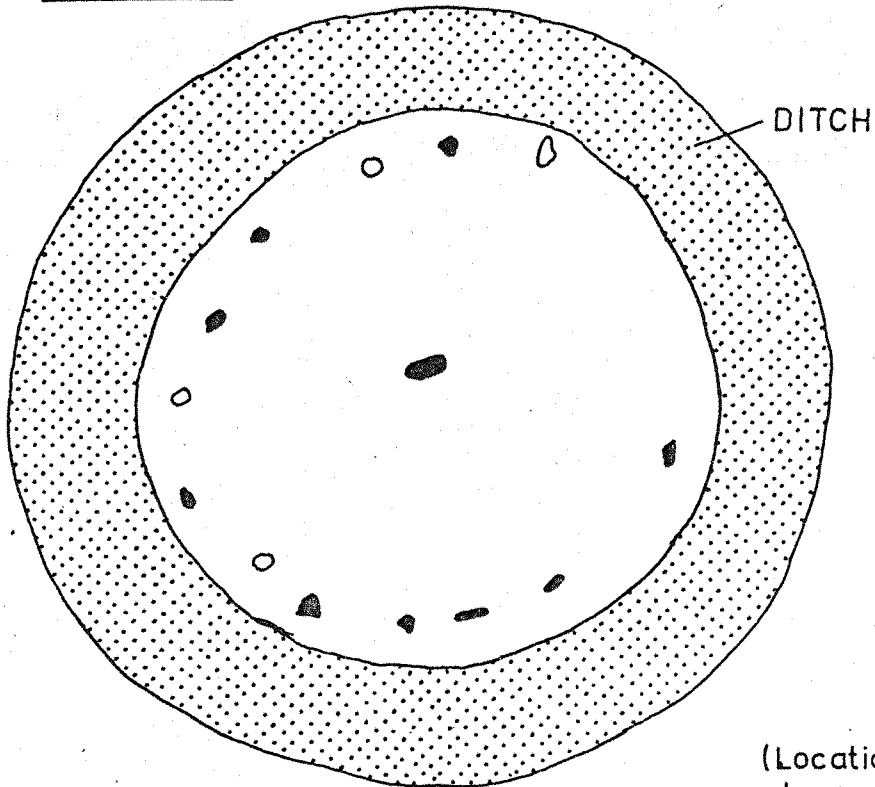


FIGURE 158. Frequency polygons illustrating frequency of burials in selected Cotswold-Severn type long barrows.

GWD 129.



Phase 1.

(Location of entrance
and spread of external
bank unknown)



Phase 2.

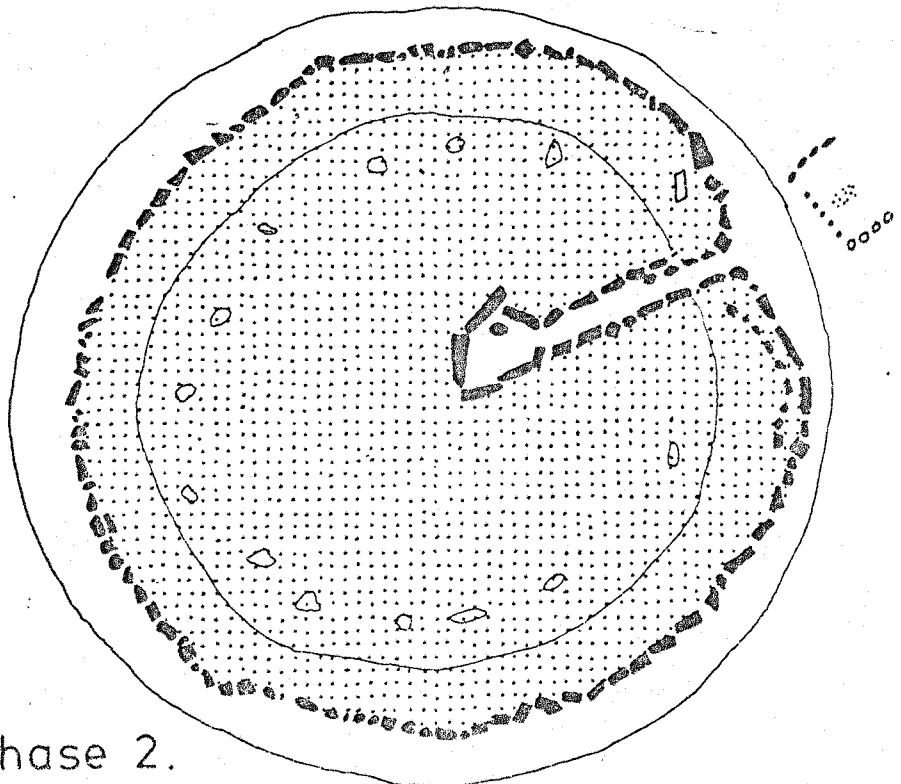


FIGURE 159. Summary of phases represented at Bryn celli Ddu henge and passage grave. (GWD 129) (plan after Lynch 1970,57)

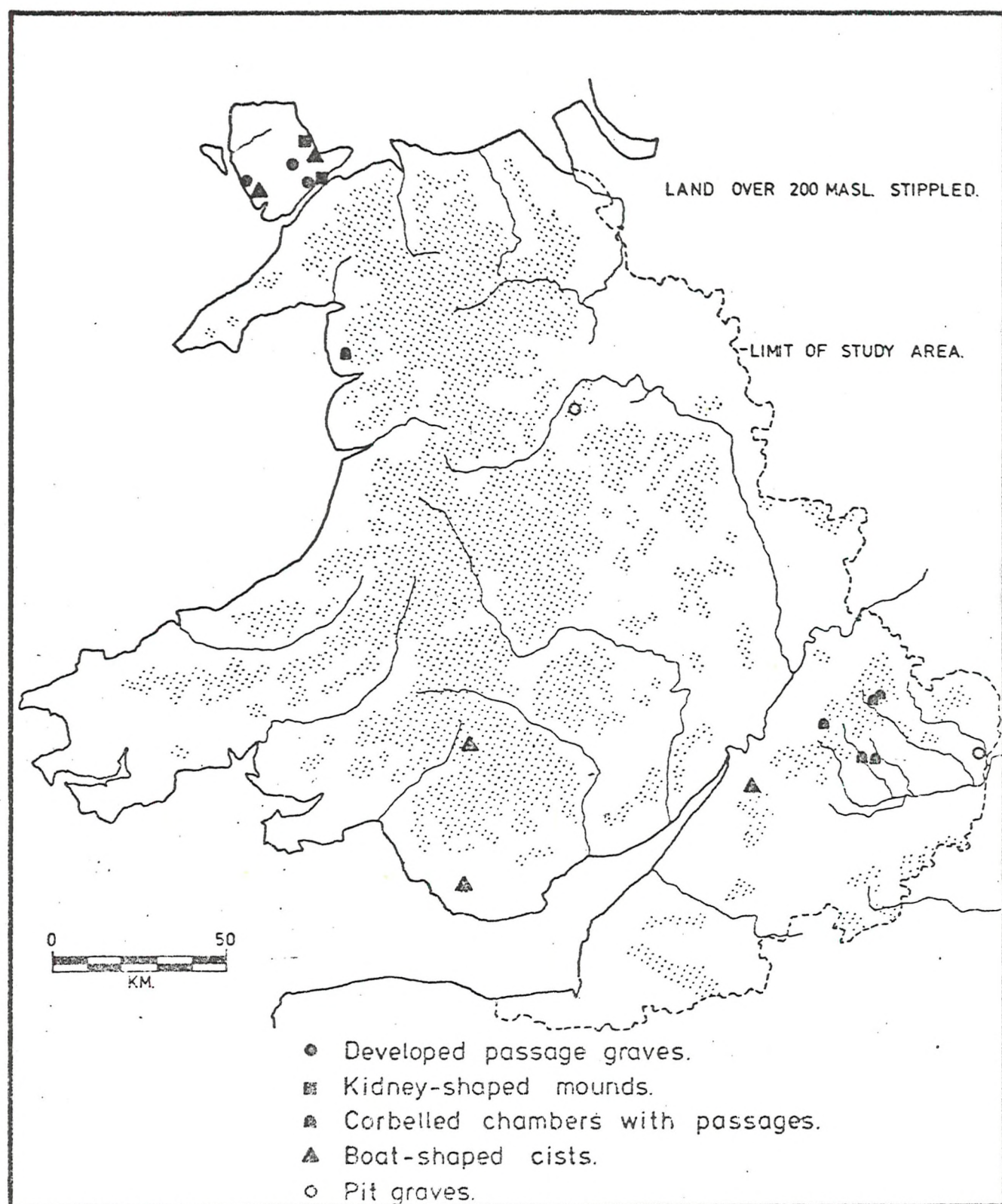


FIGURE 160. Distribution of stage 2-4 burial monuments.

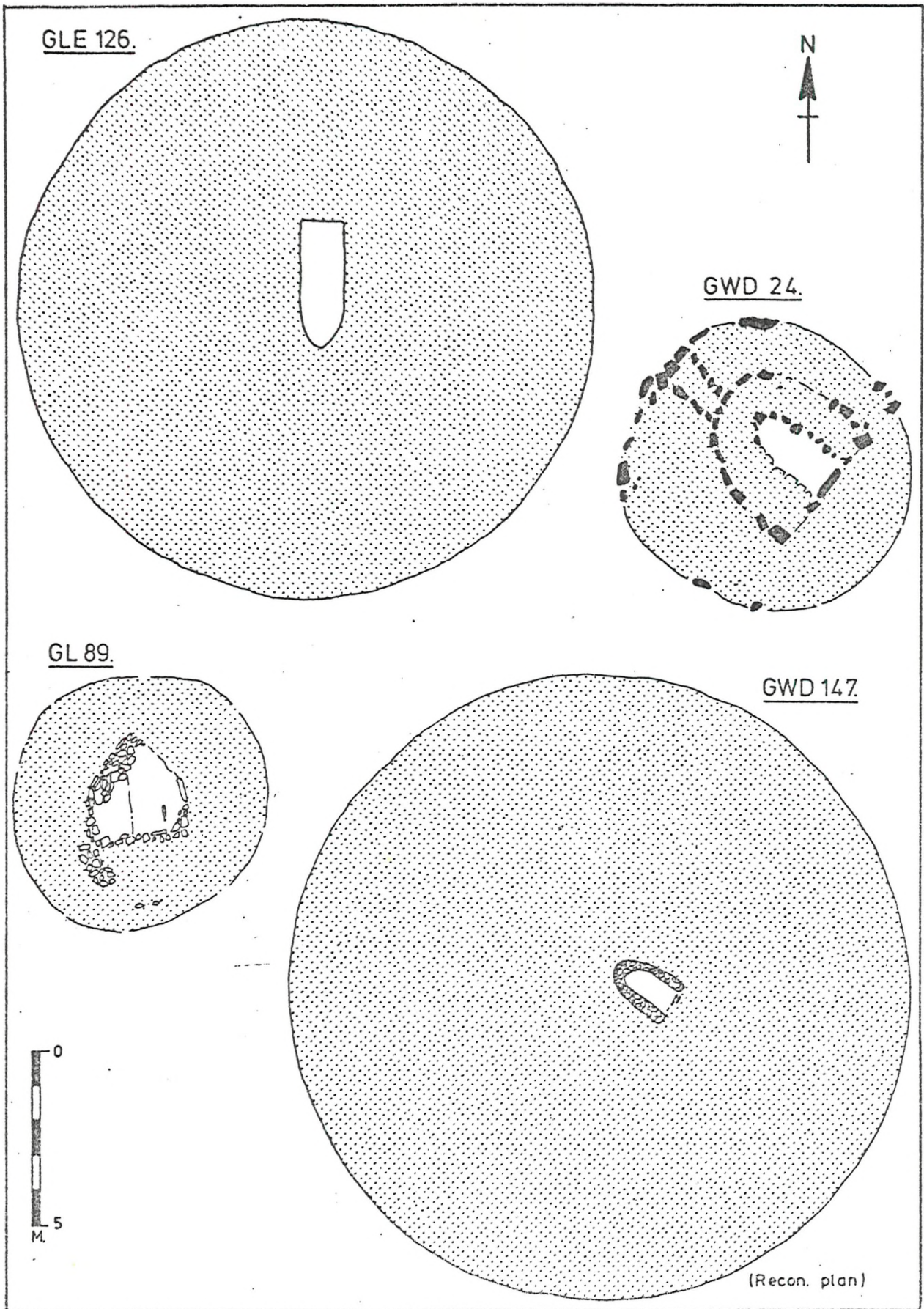


FIGURE 161. Plans of stage 4 boat-shaped cist tombs. (Sources: various)

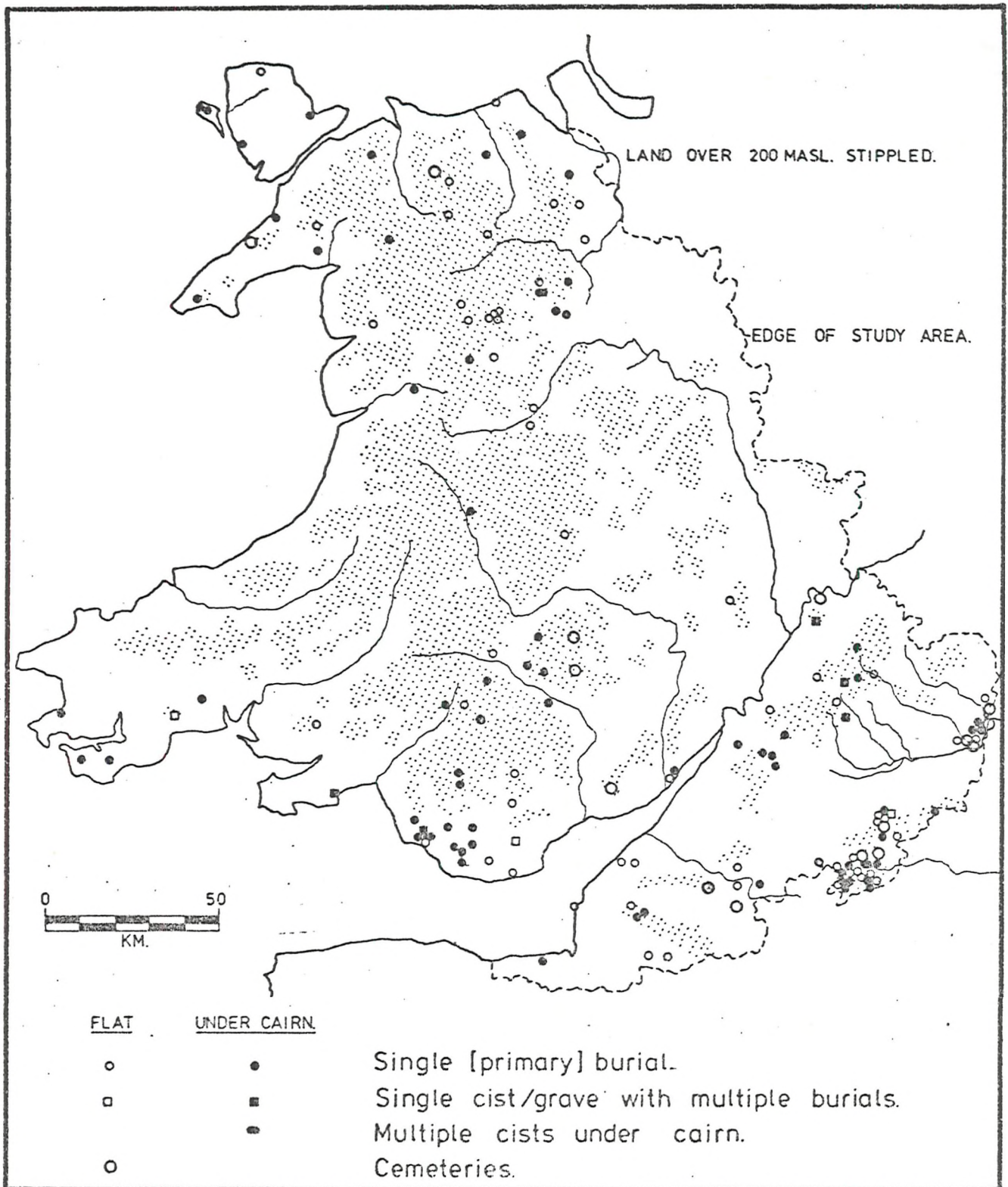


FIGURE 162. Distribution of stage 4 burials.

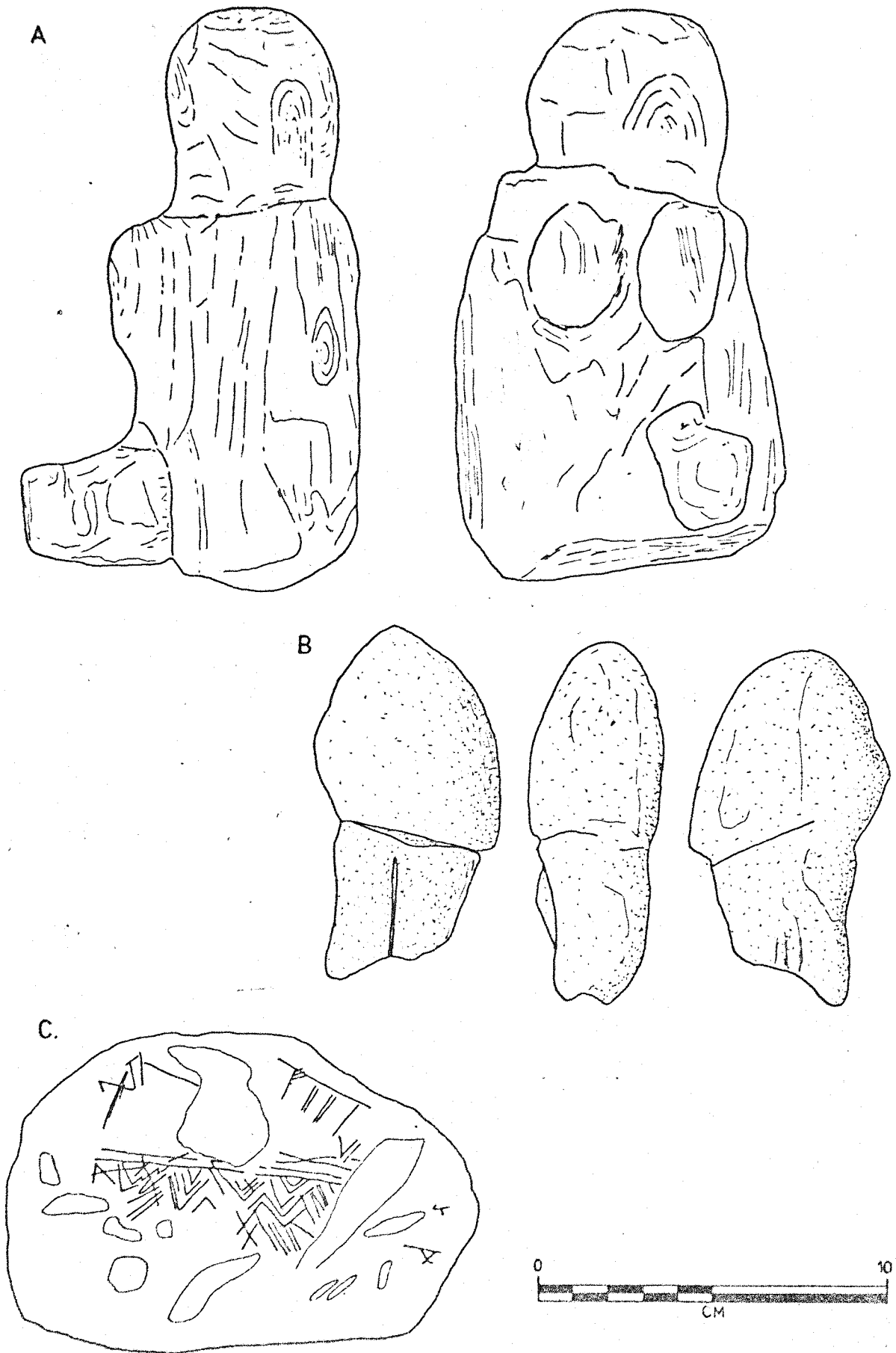


FIGURE 163. Middle neolithic figurines and projective equipment.
(Sources: various)

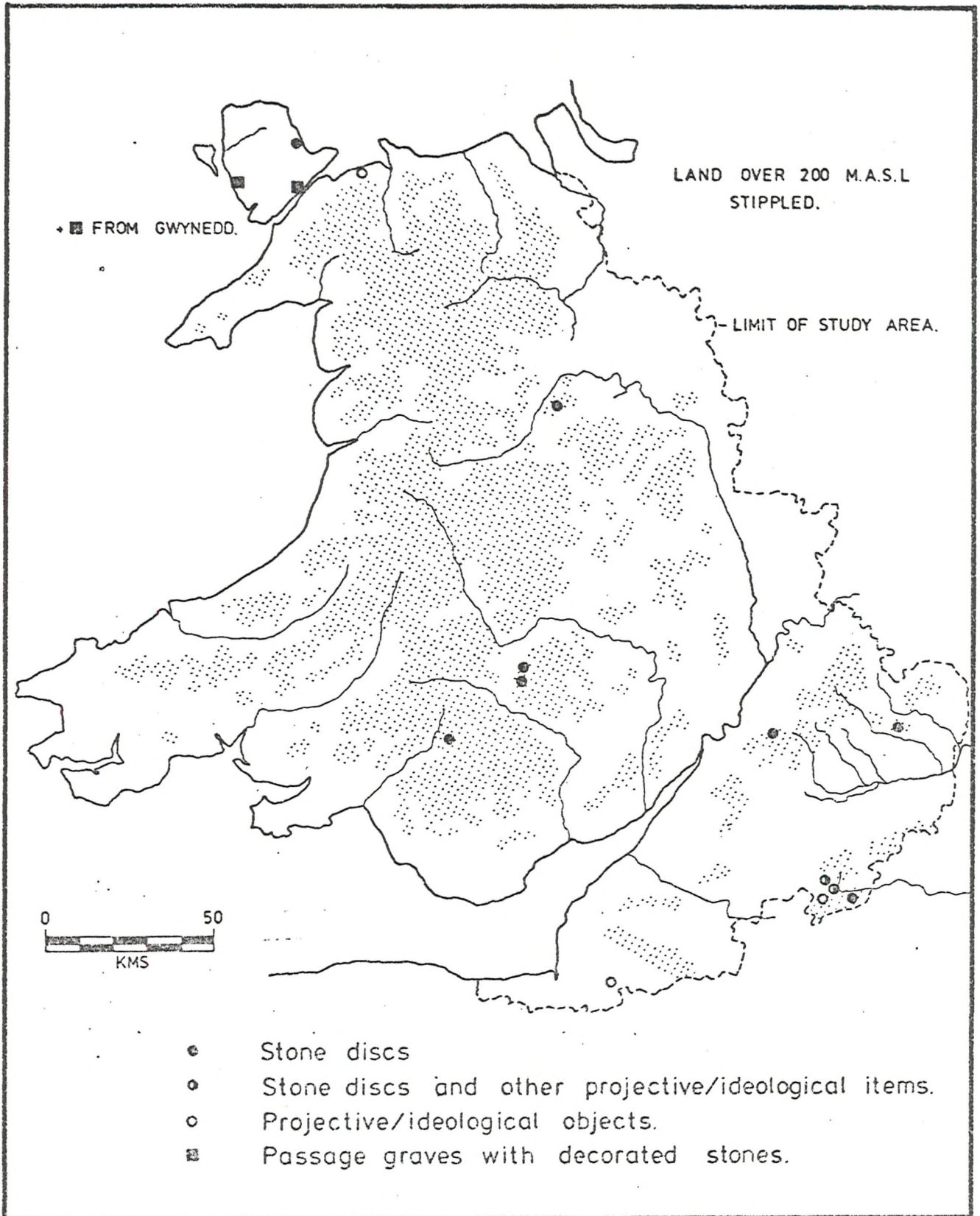


FIGURE 164. Distribution of findspots of projective items.

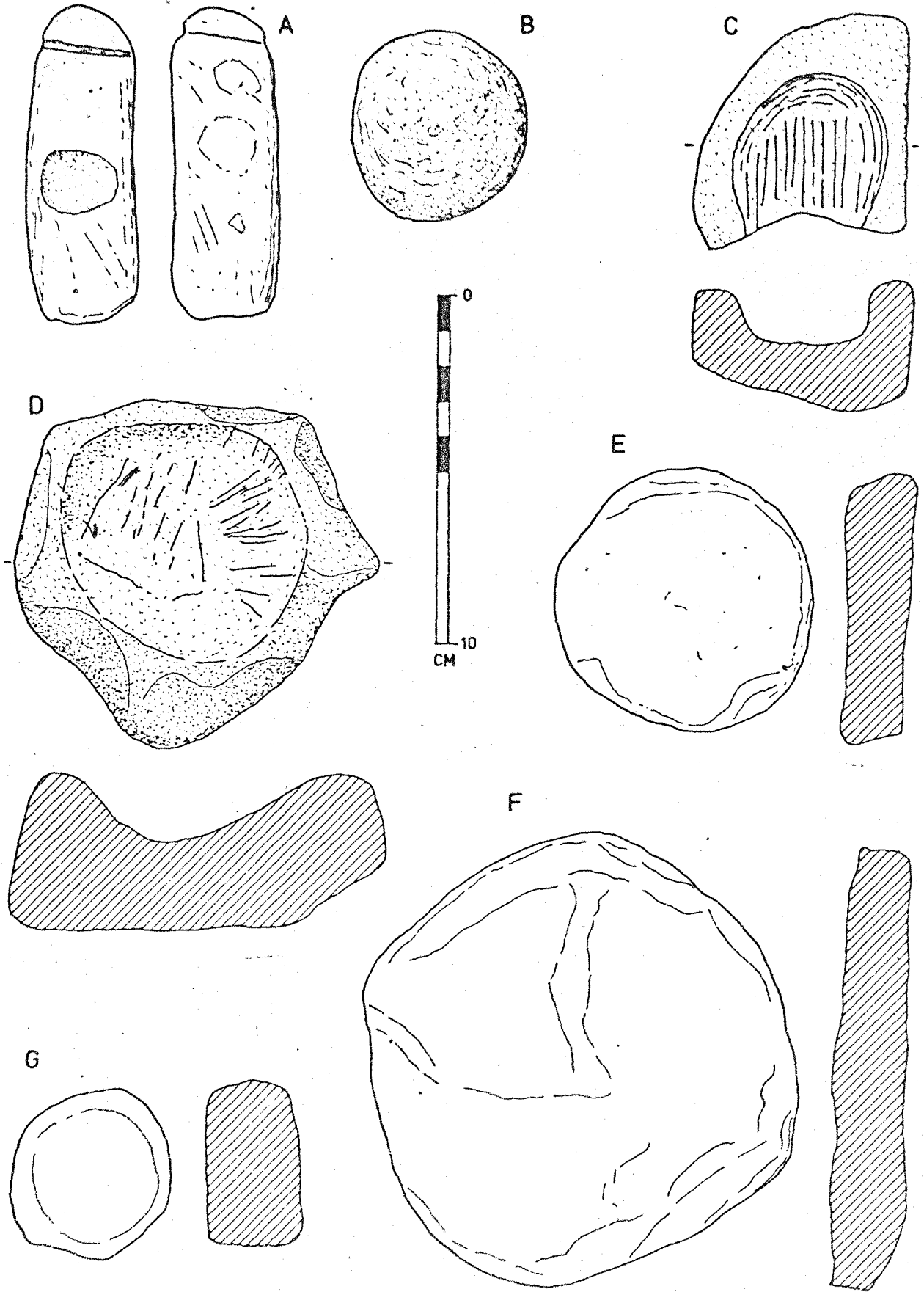
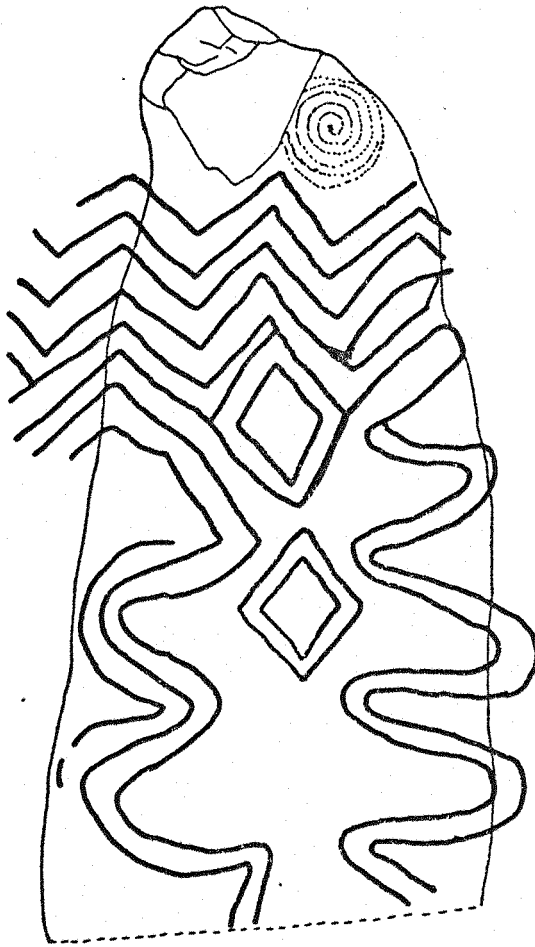


FIGURE 165. Projective equipment and objects. (Sources: various) (See 9.3 for key to lettering)

STONE 22



STONE 8.

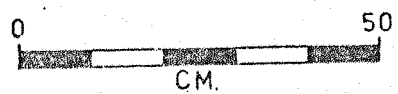


FIGURE 166. Decorated stones at Barclodiad y Gawres (GWD 22).
(After Lynch 1967)

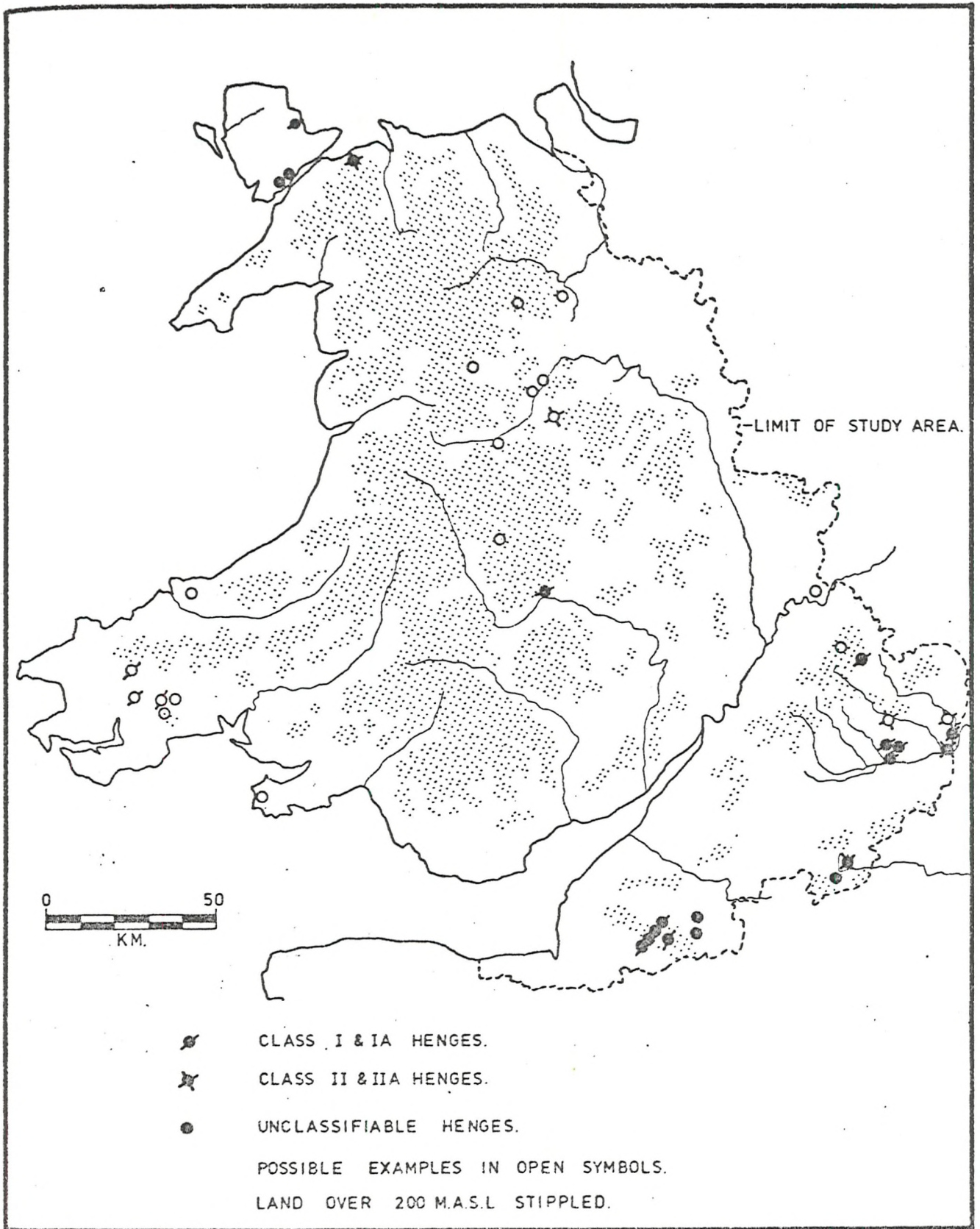


FIGURE 167. Distribution of recorded henge monuments.

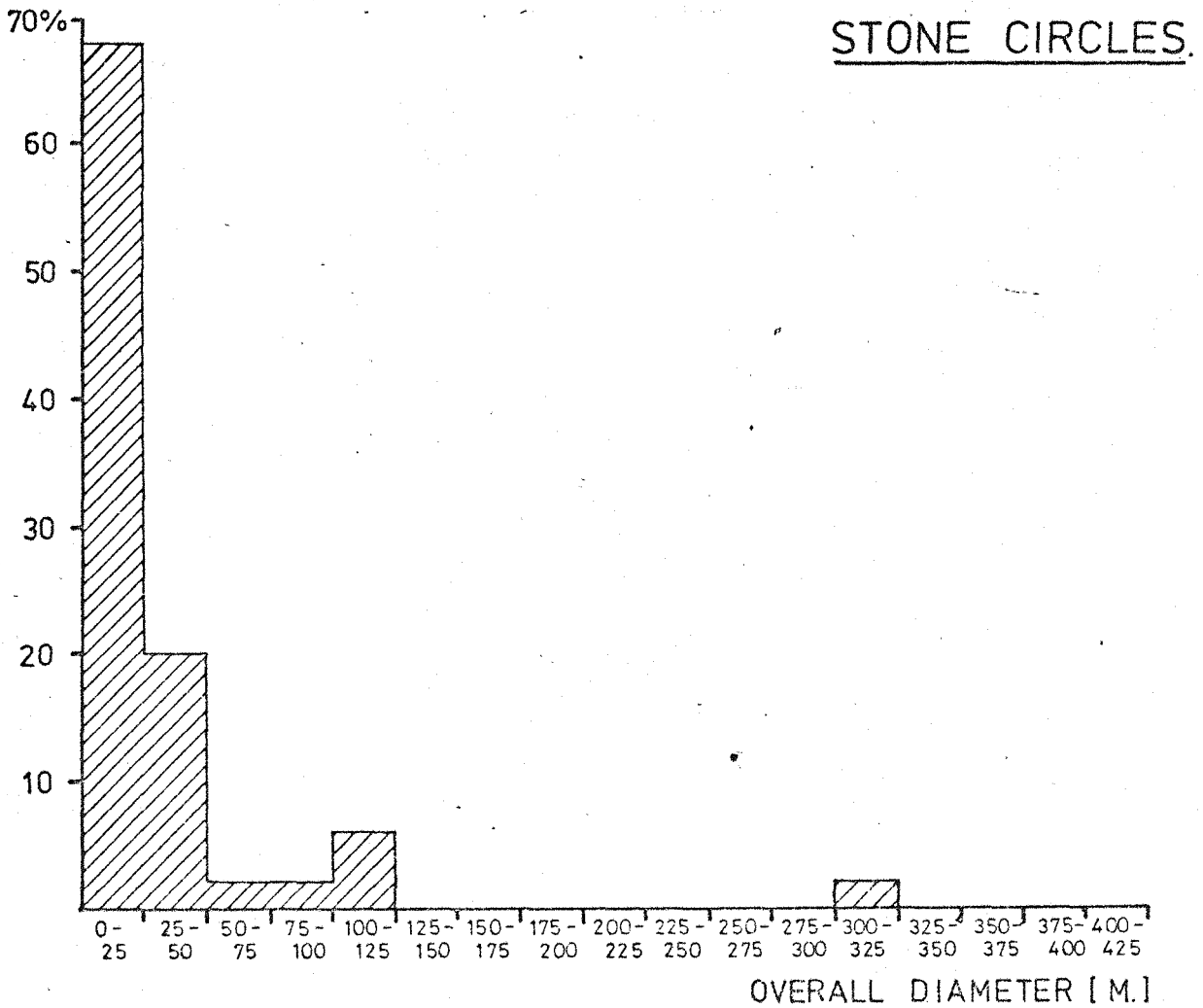
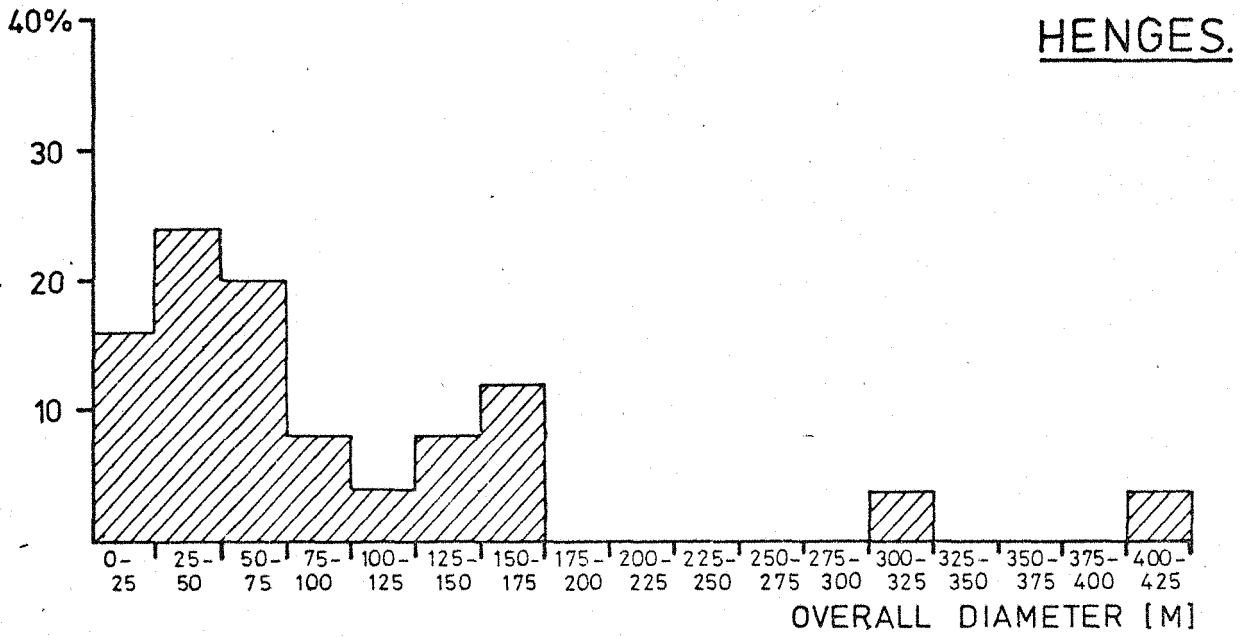


FIGURE 168. Summary of henge and stone circle sizes.

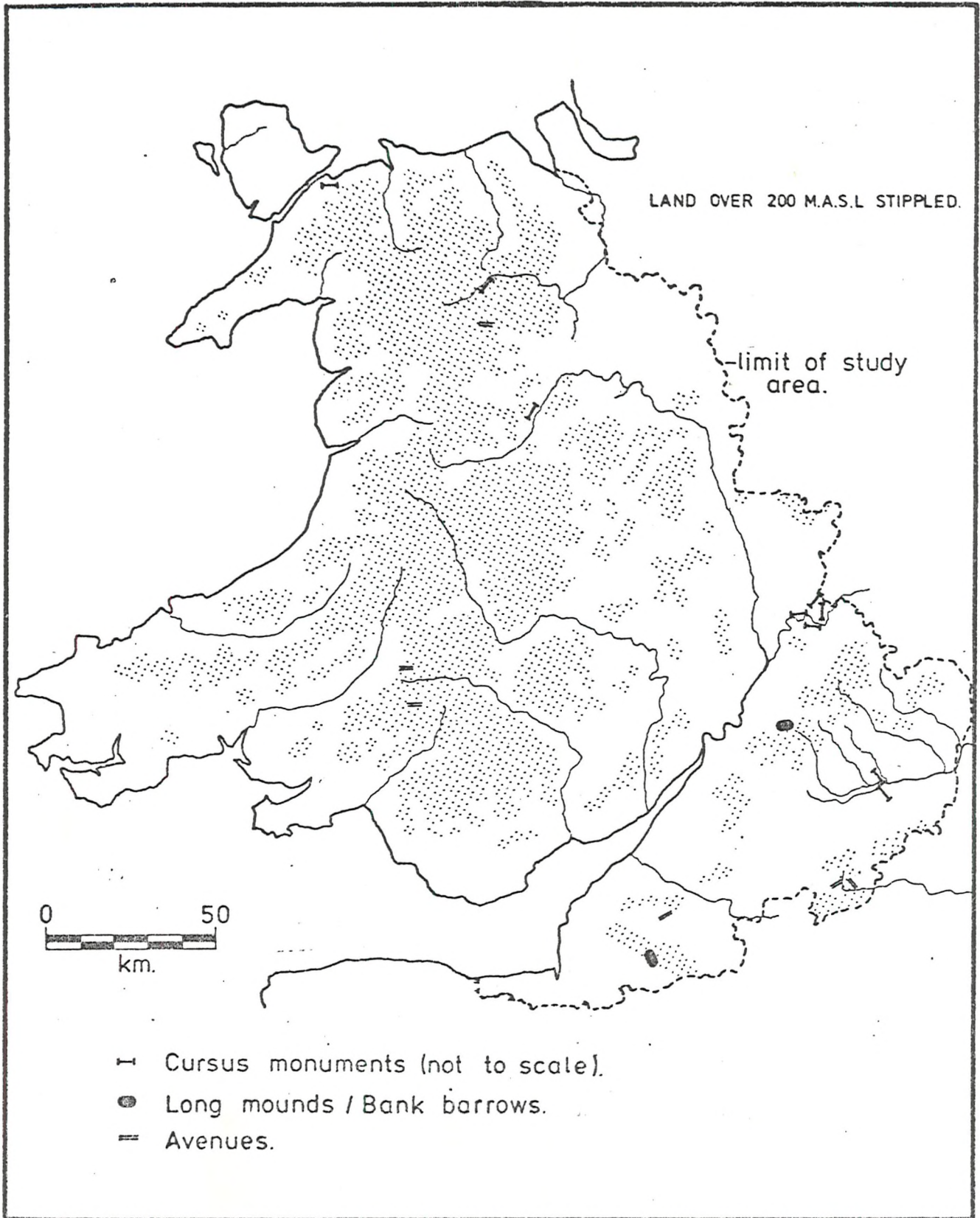


FIGURE 169. Distribution of recorded processional monuments.

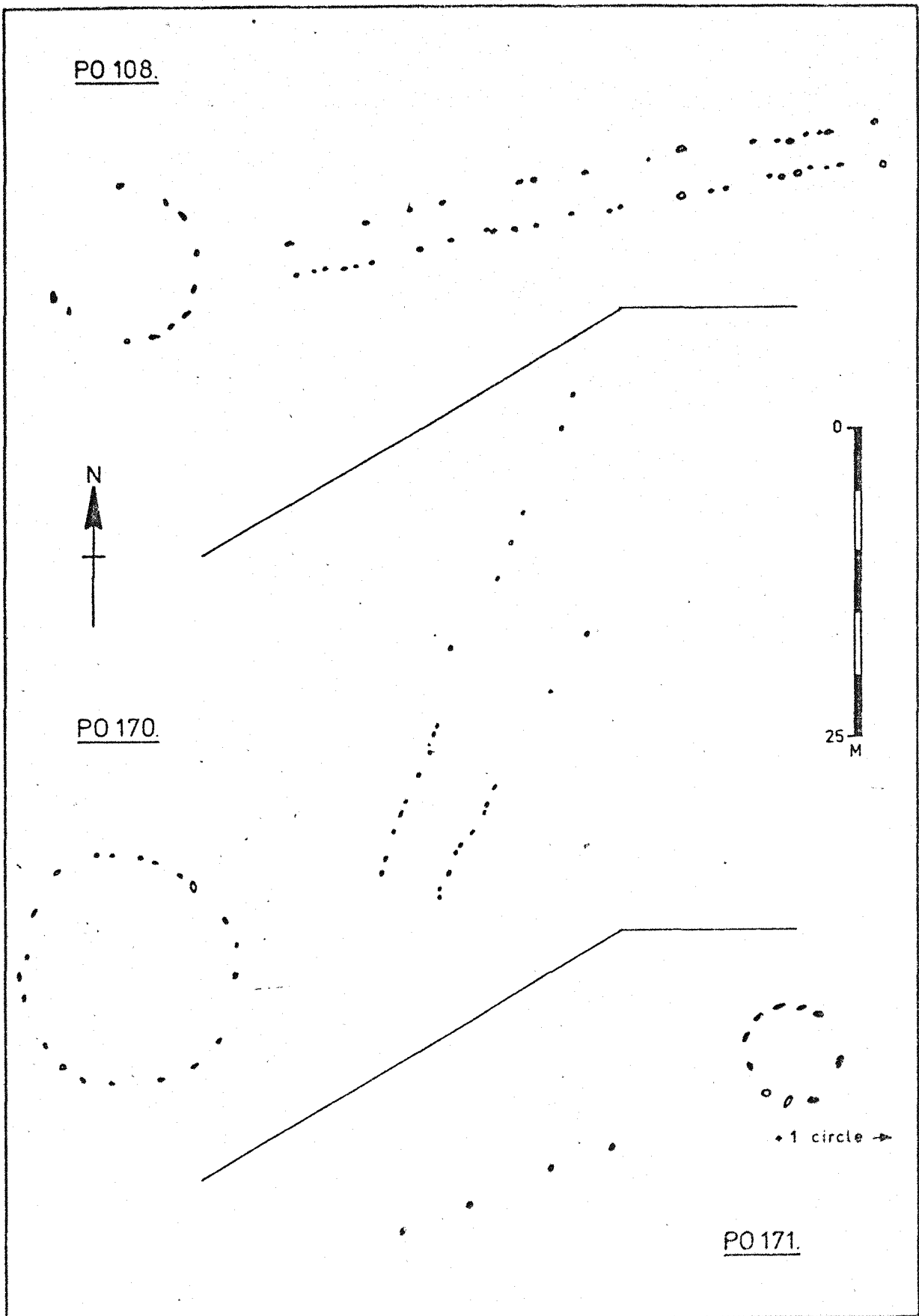


FIGURE 170. Stone circles with adjacent avenues. (Source: various)

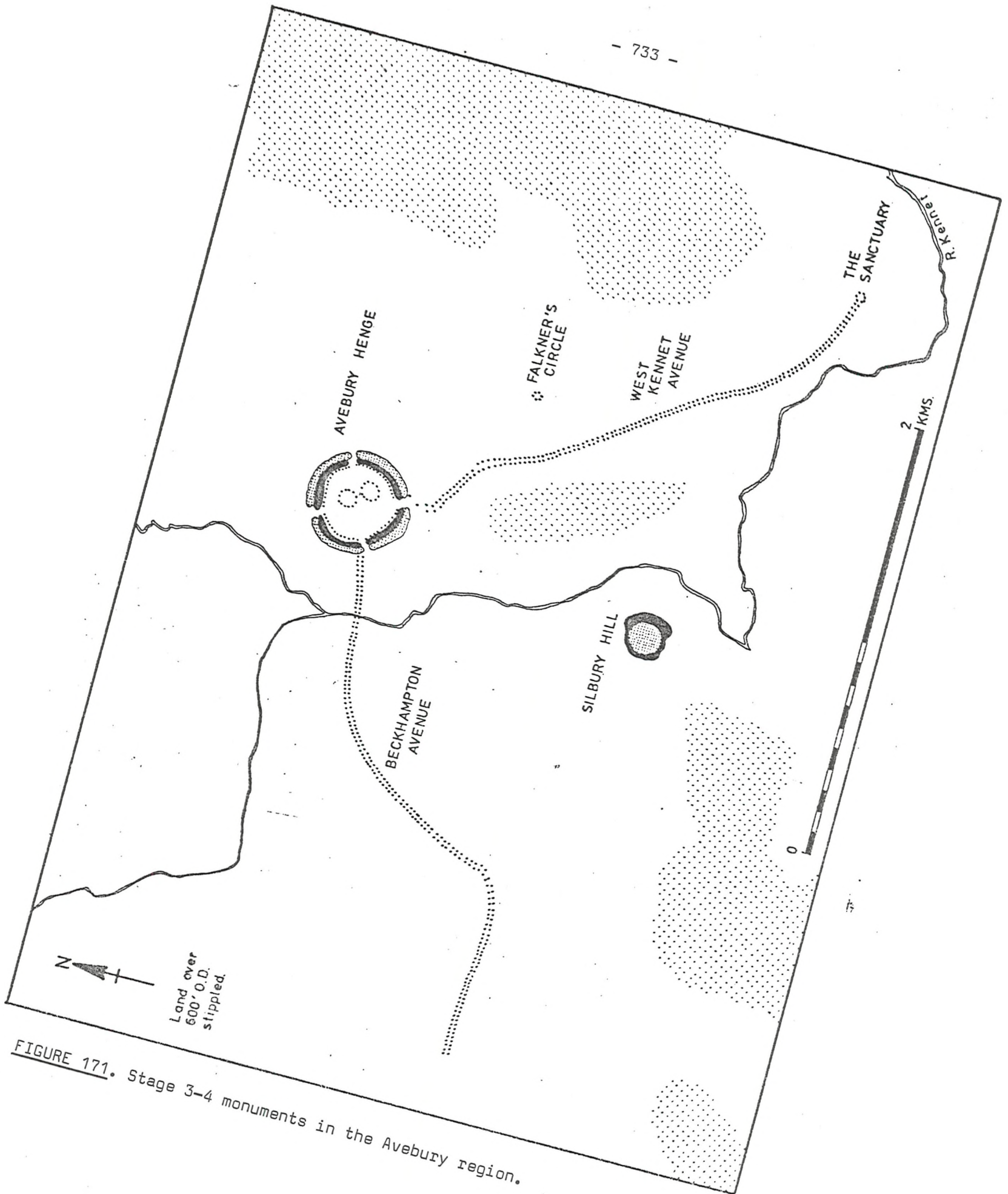


FIGURE 171. Stage 3-4 monuments in the Avebury region.

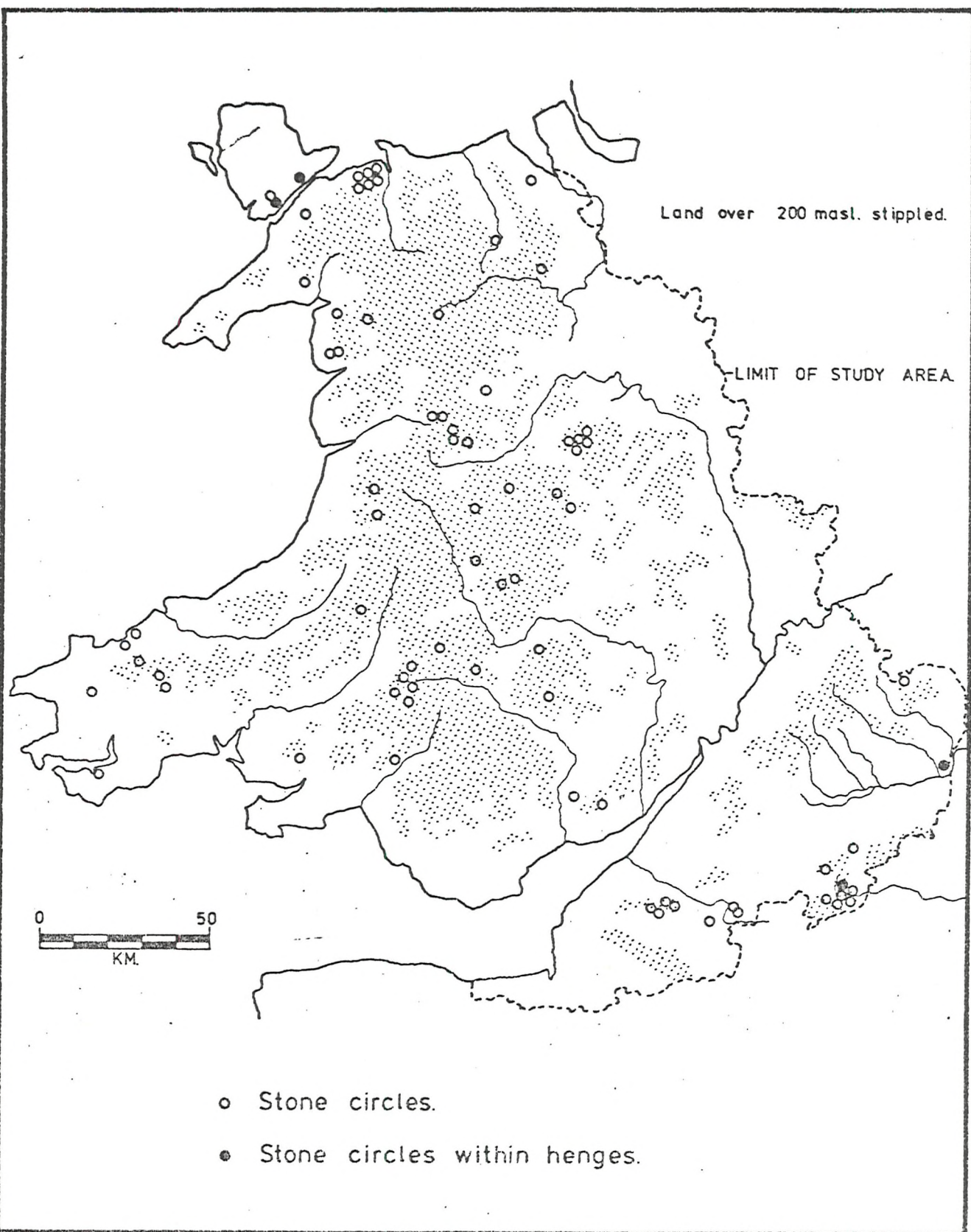


FIGURE 172. Distribution of recorded stone circles.

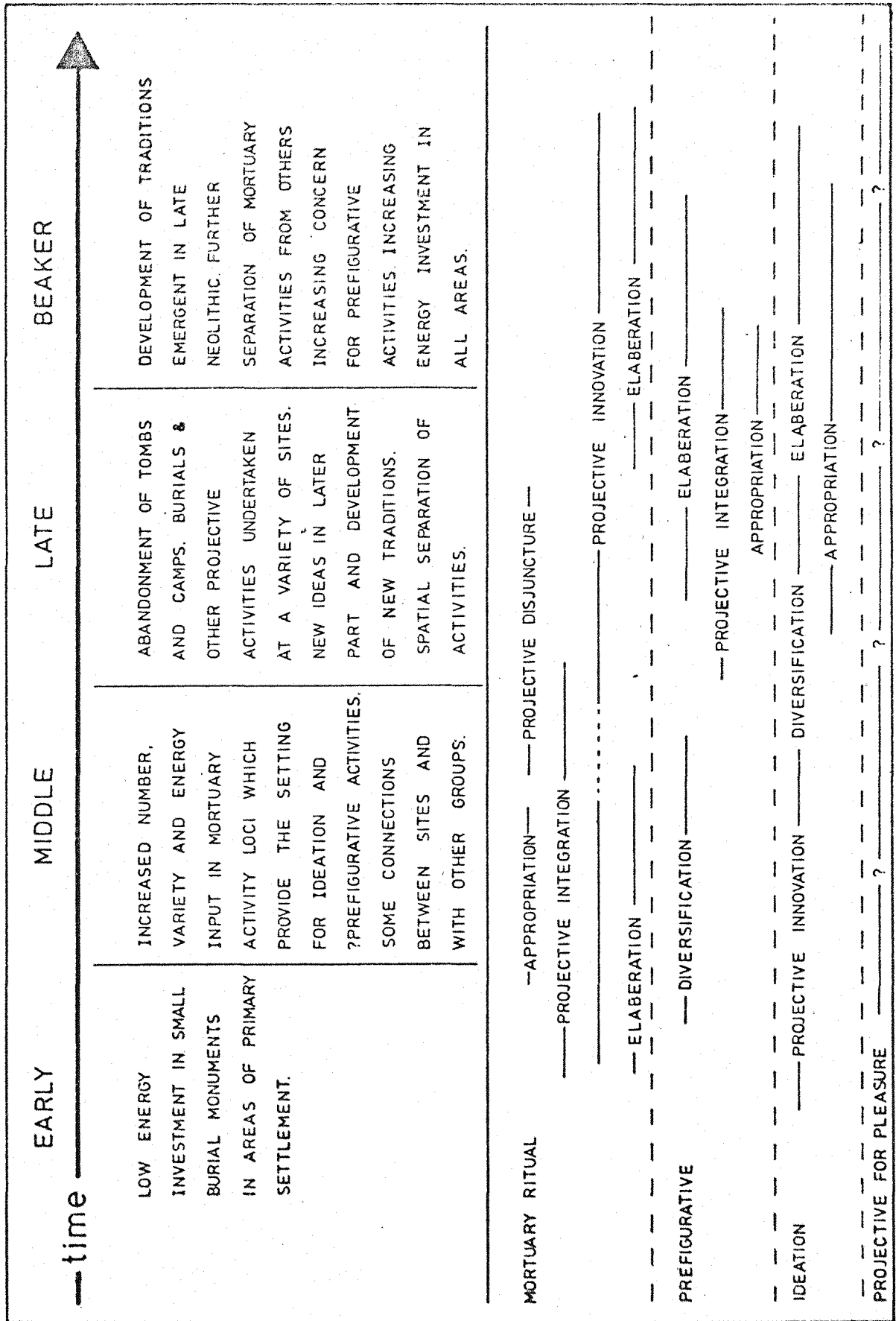


FIGURE 173. Summary of trajectory processes in the projective subsystem.

INTERACTION / EXCHANGE

- ▼ INTRODUCTION OF NEW INFORMATION.
- ▼ PRESTIGE ITEMS.
- ▲ OPPORTUNITY FOR EXCHANGE.

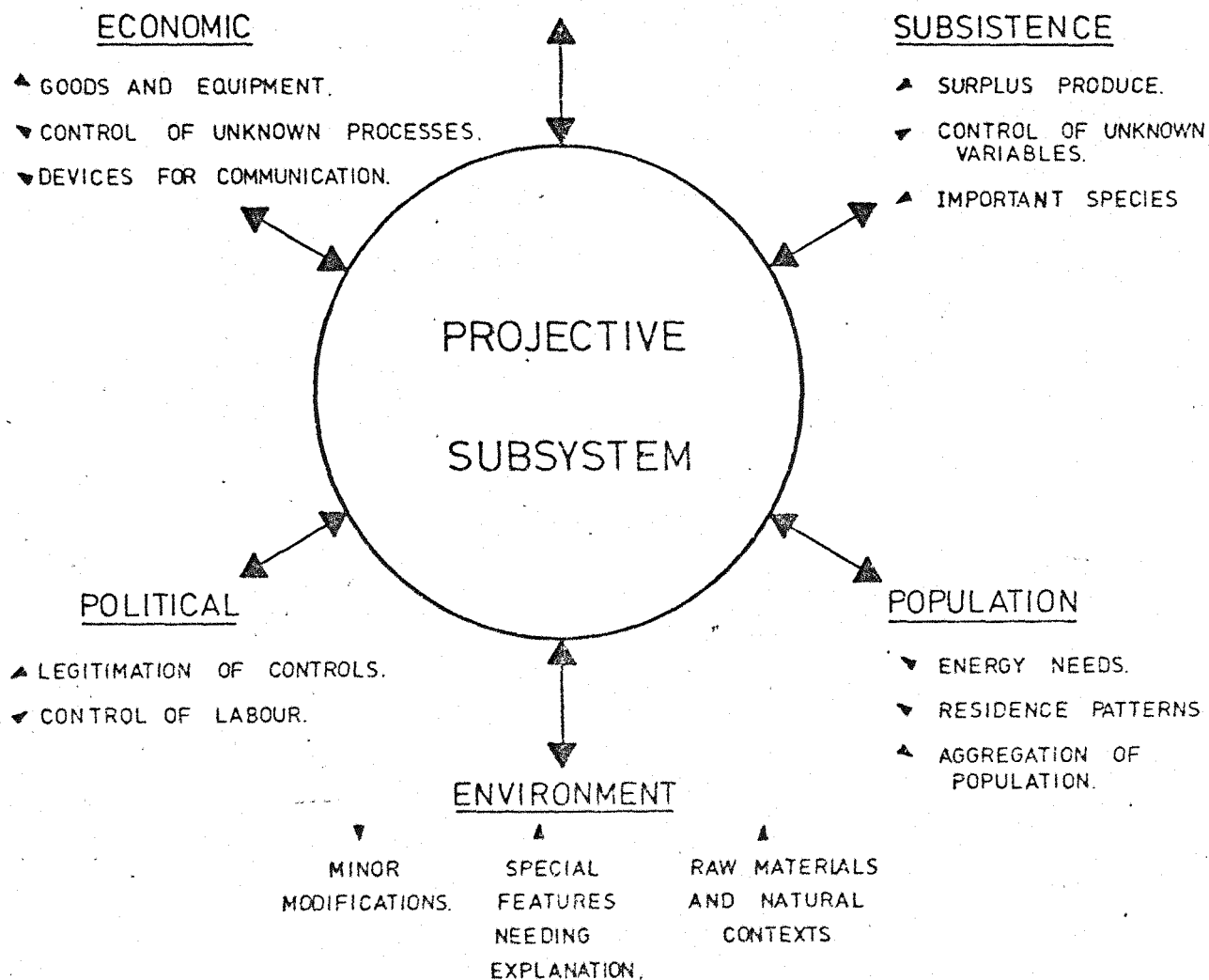


FIGURE 174. Summary of projective subsystem inputs and outputs.

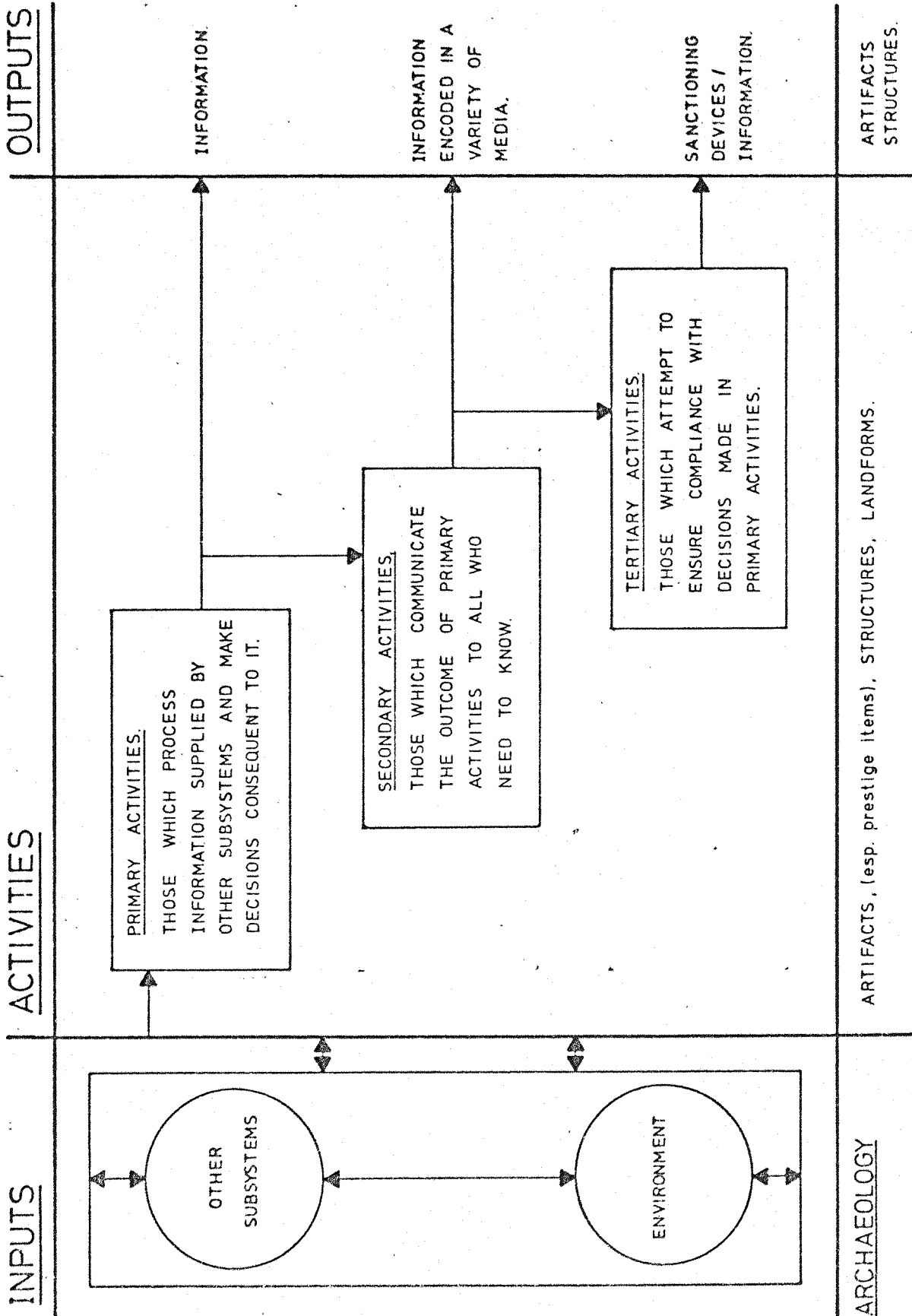


FIGURE 175. Schematic summary of the internal interactions within the political subsystem.

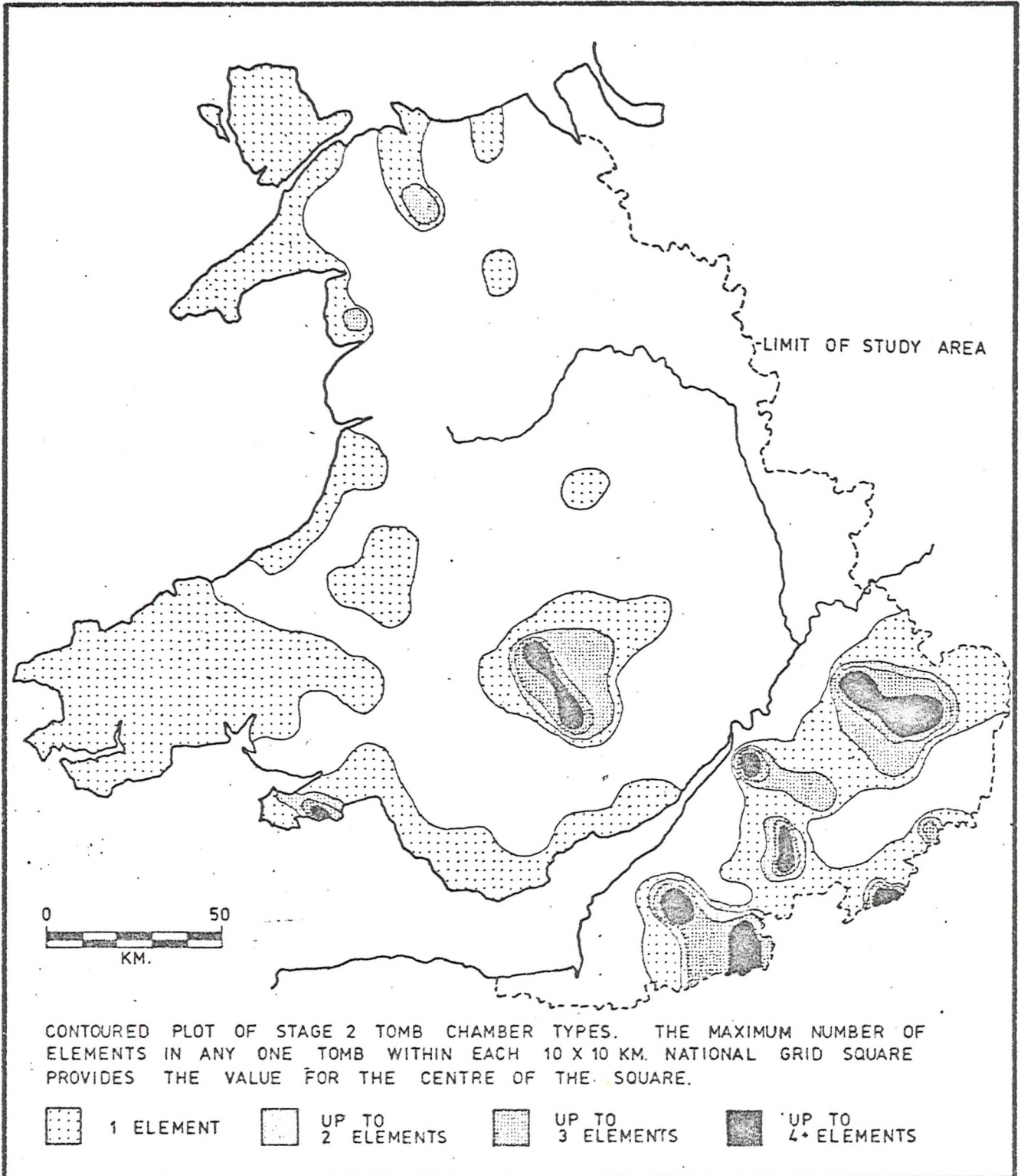


FIGURE 176. Patterns of tomb segmentation through the number of chamber elements present.

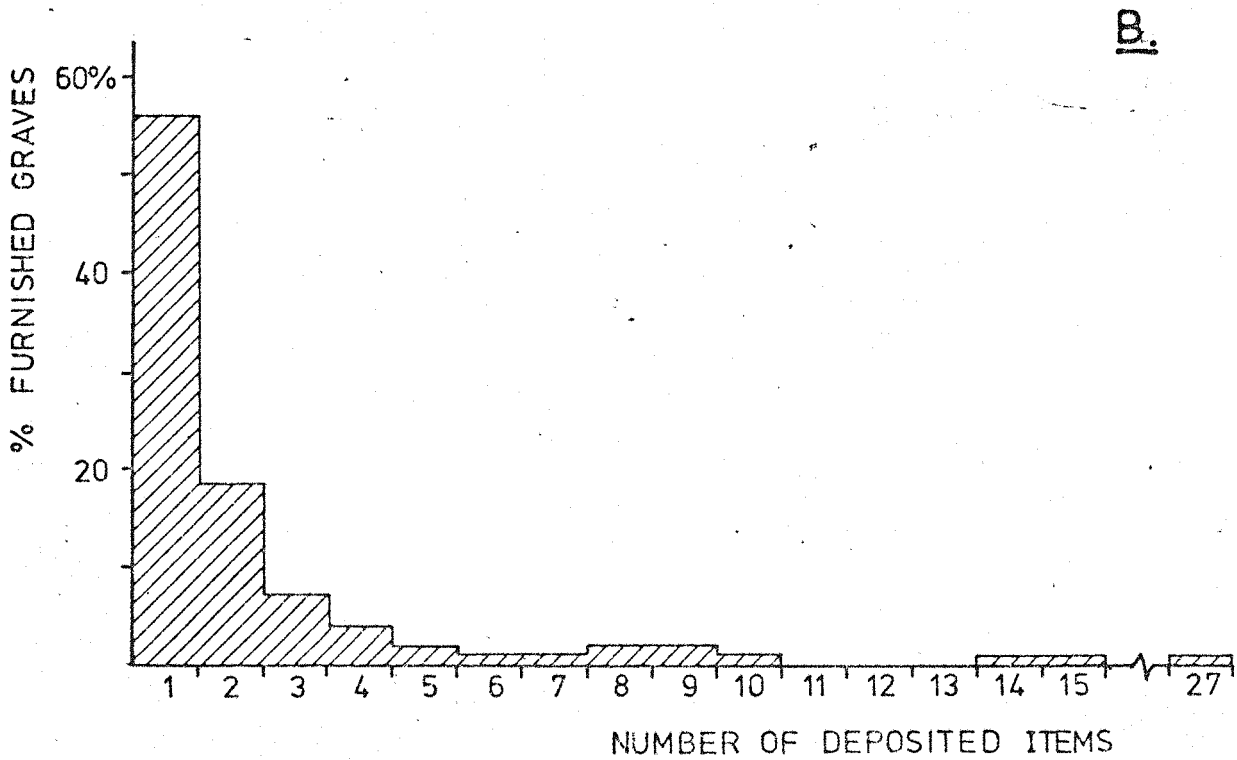
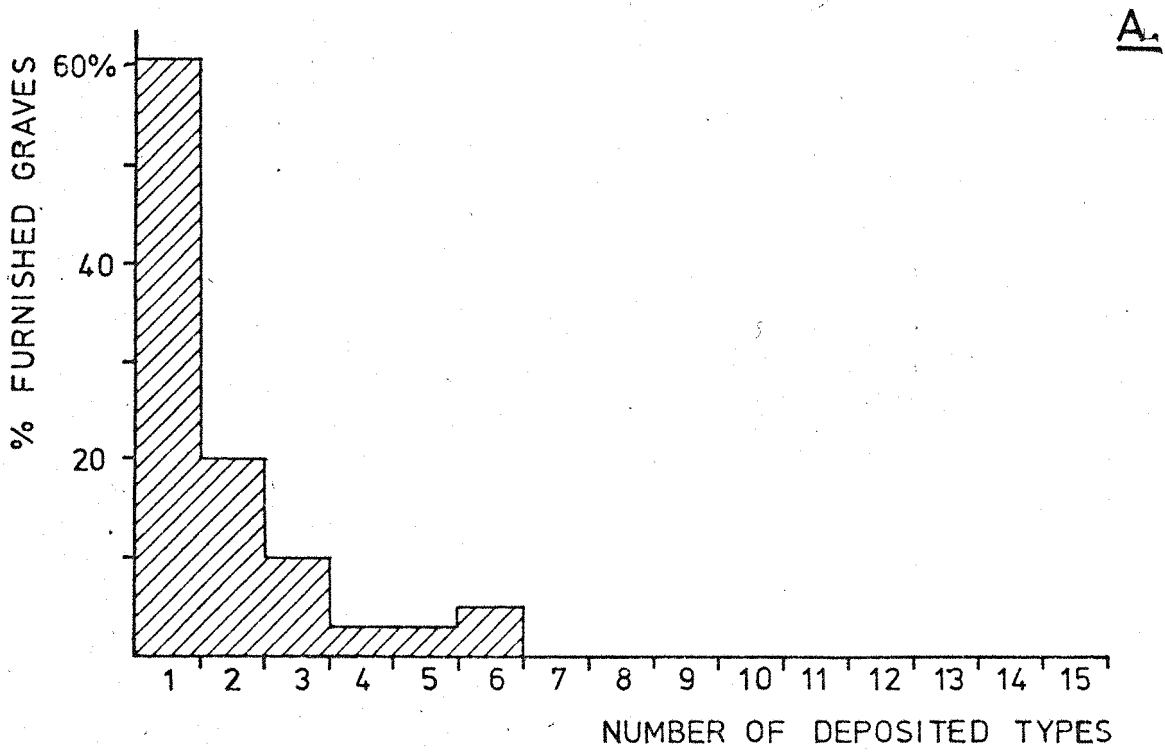


FIGURE 177. Frequency of grave good occurrence in stage 4 burials.

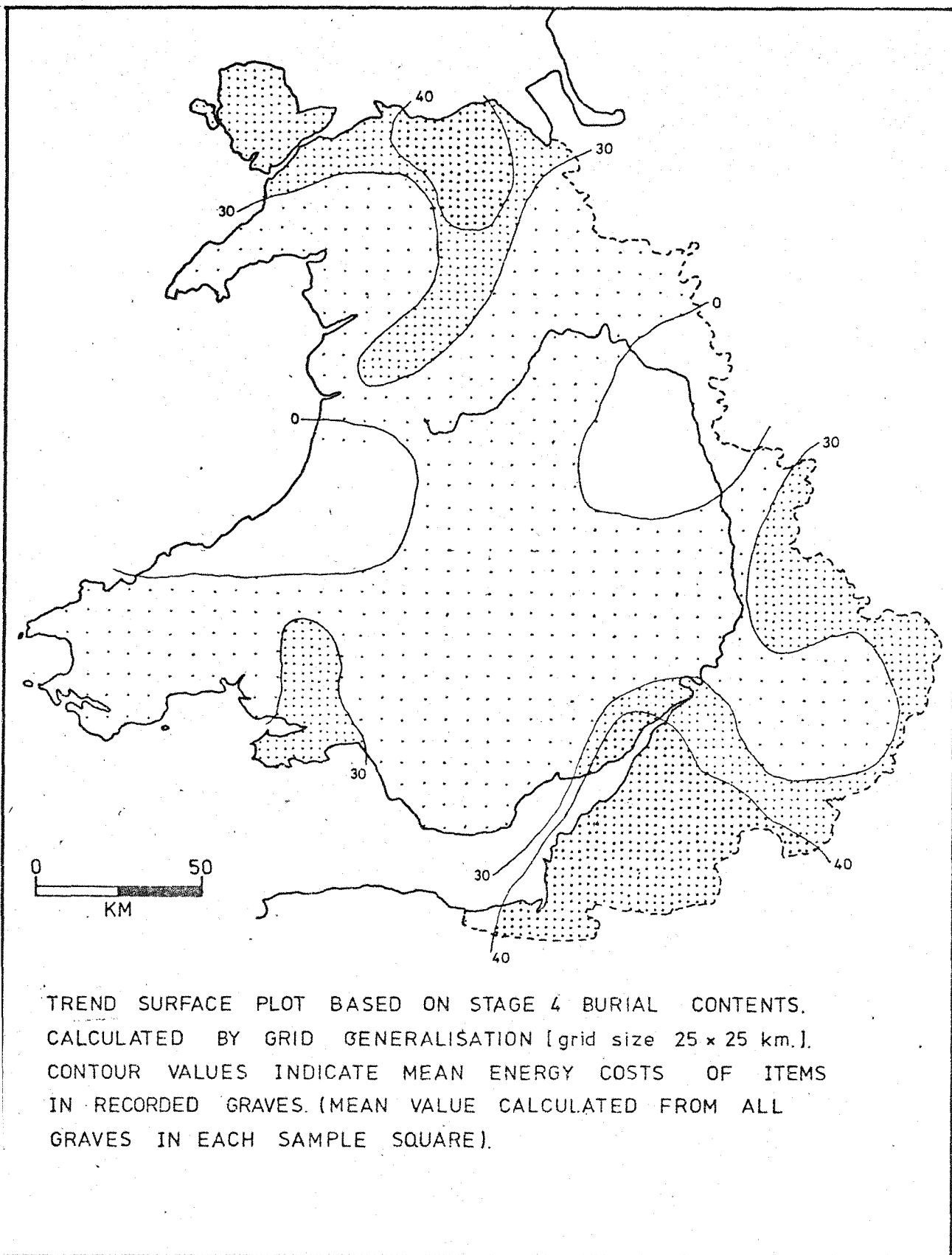


FIGURE 178. Trend surface plot showing distribution of energy investment in stage 4 graves.

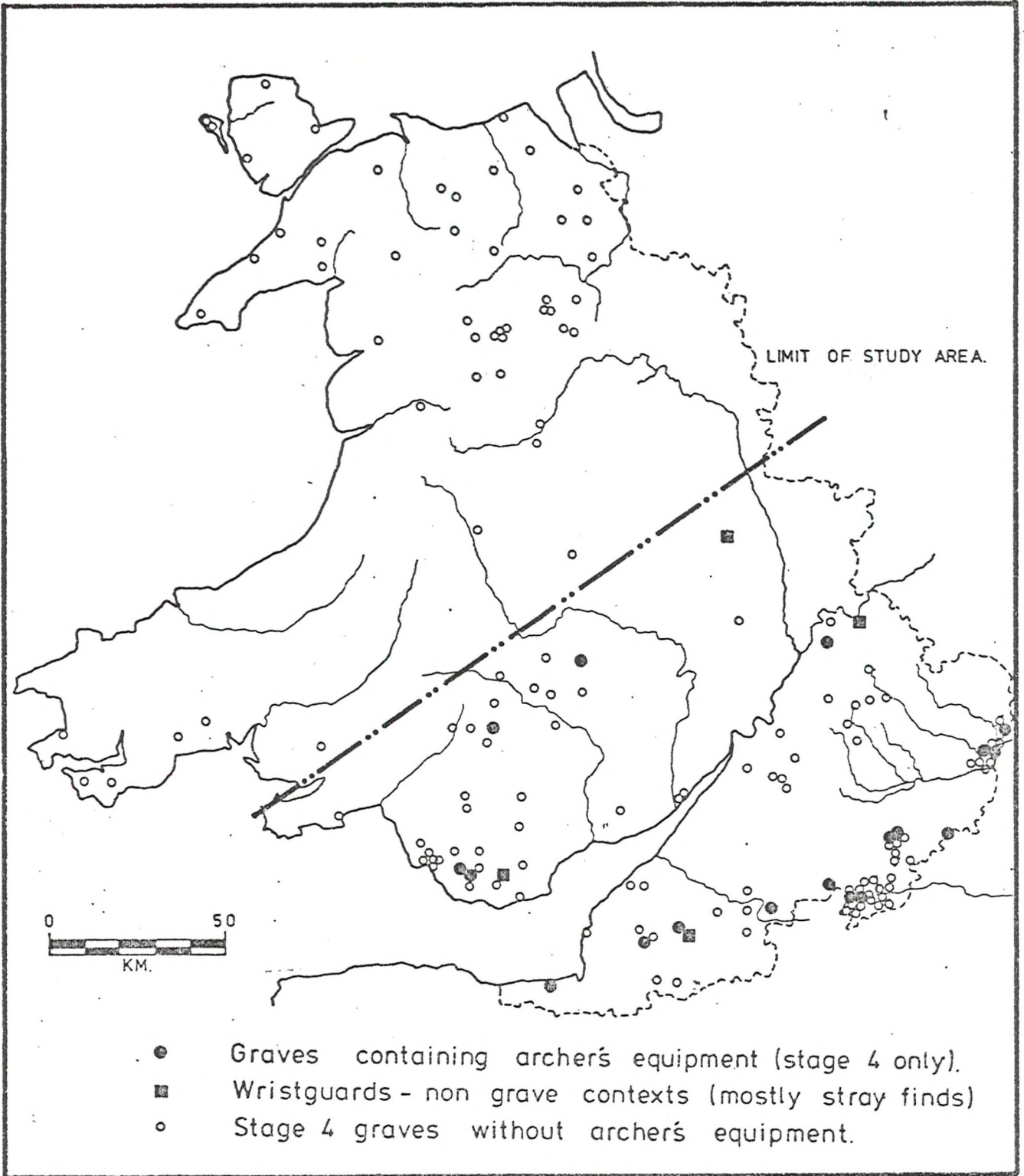


FIGURE 179. Distribution of stage 4 graves containing archer's equipment and stray finds of wristguards.

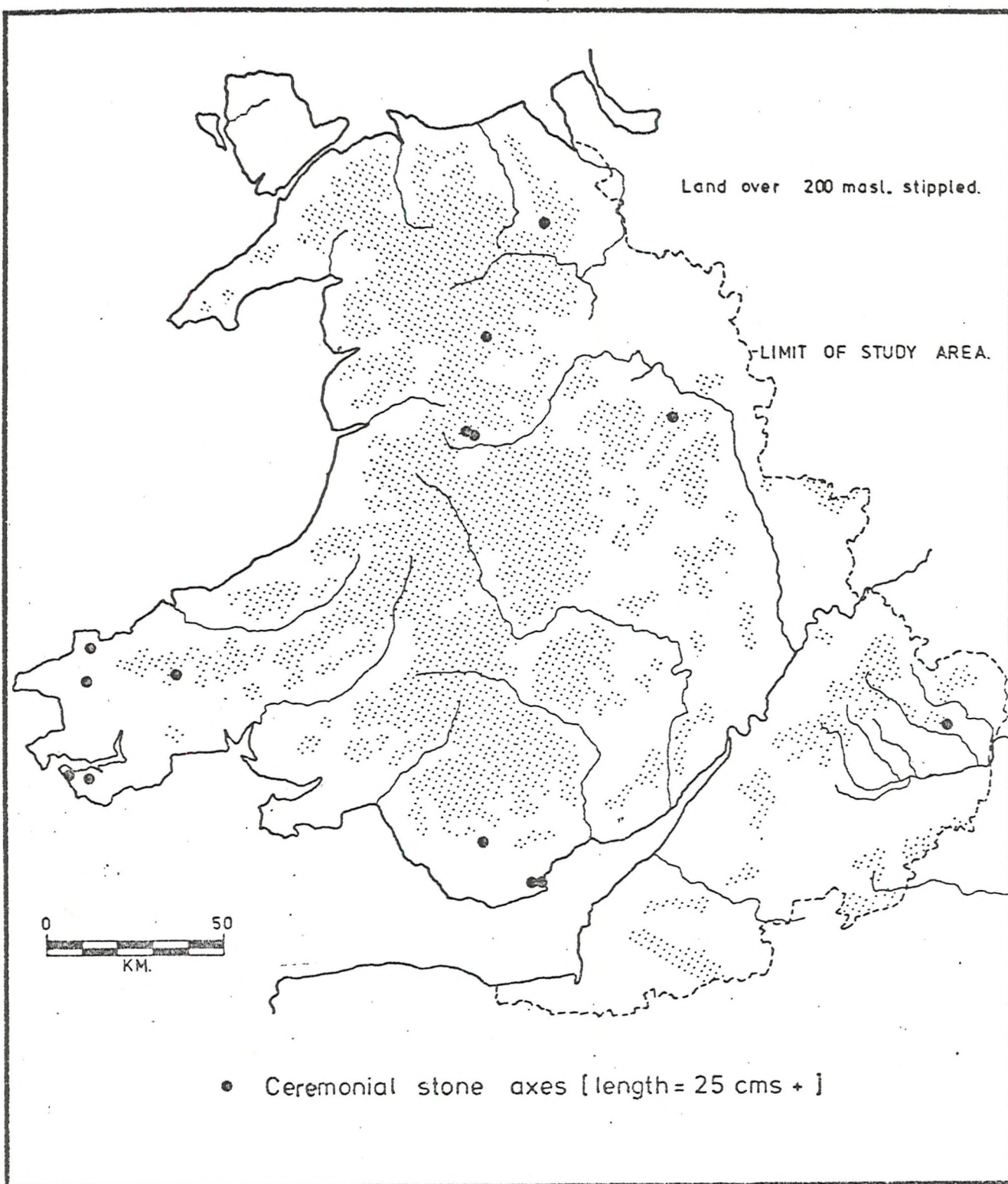


FIGURE 180. Distribution of "Ceremonial" type axes.

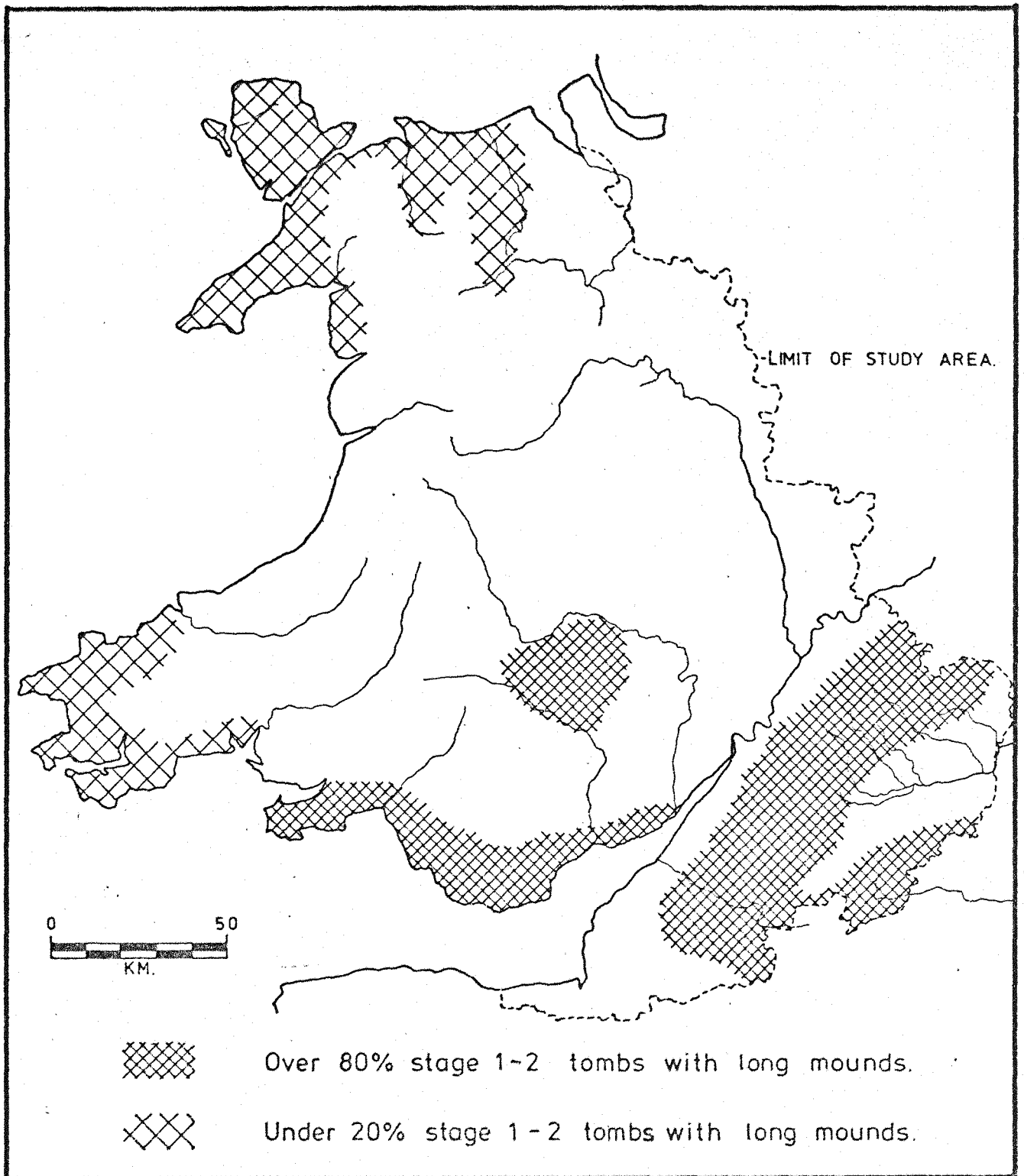


FIGURE 181. Distribution of long mounds added to chambered tombs.

A.

EARRINGS

PINS

BUTTONS

PINS

BUTTON CAPS

?DISCS

B.

PENDANTS

NECKLACES

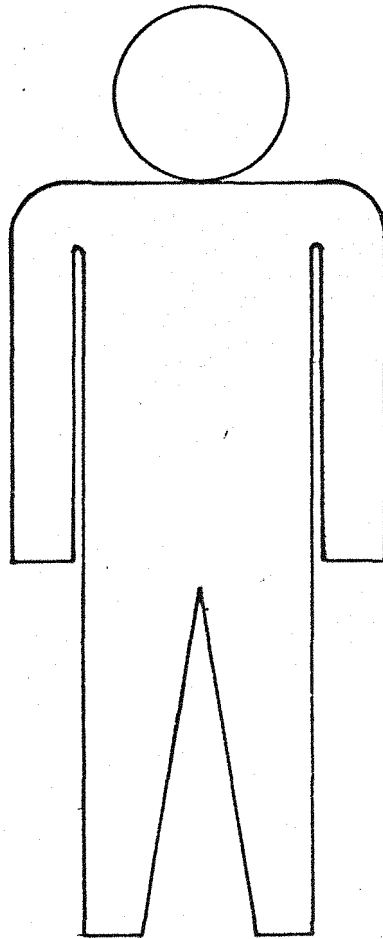
LUNULAE

CAPE

BEADS

BELT - TOGGLE

PULLEY - RINGS



GENERALISED.

SPECIFIC.

FIGURE 182. Postulated body positioning of stage 4 personal ornaments.

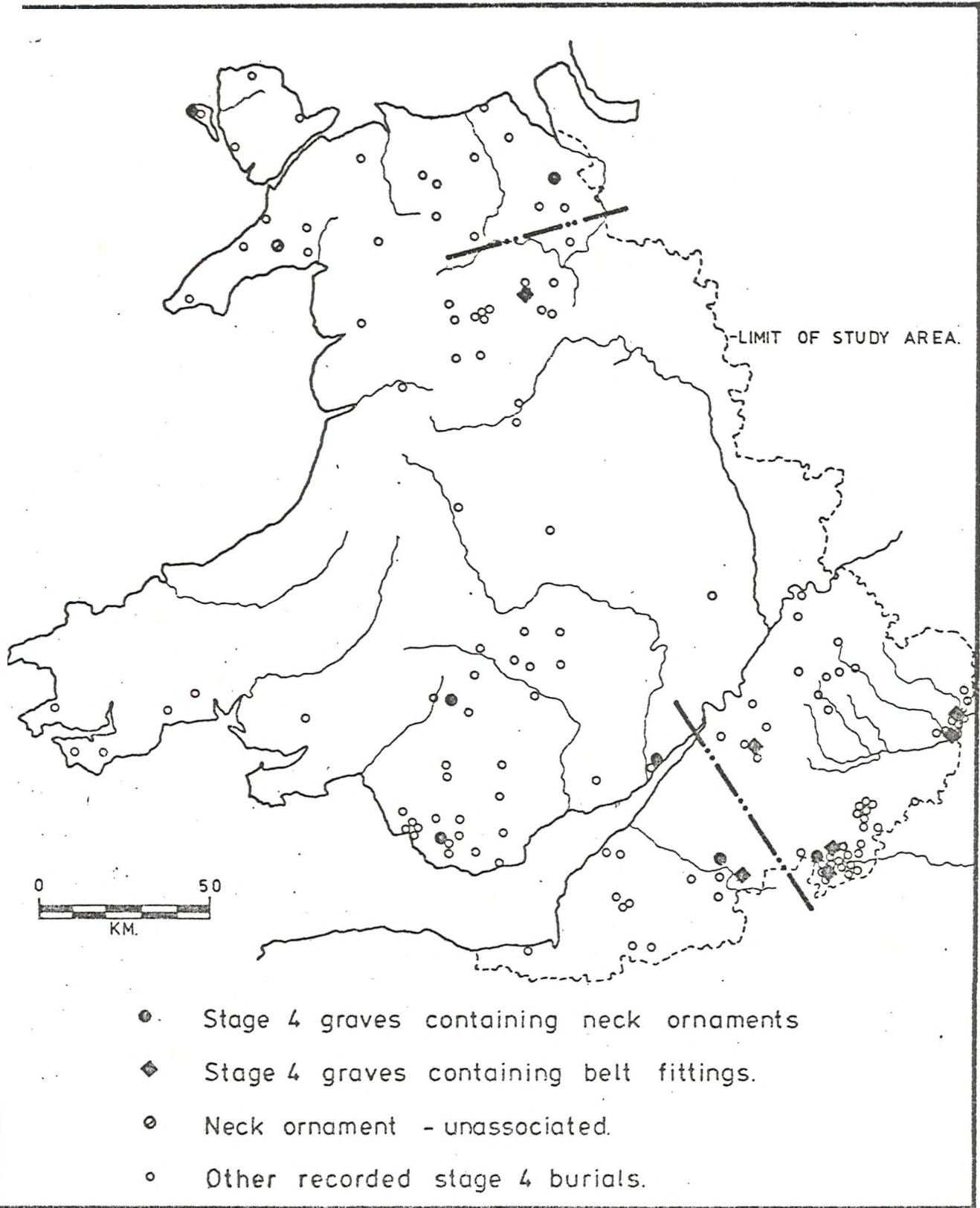


FIGURE 183. Distribution of stage 4 personal ornament types.

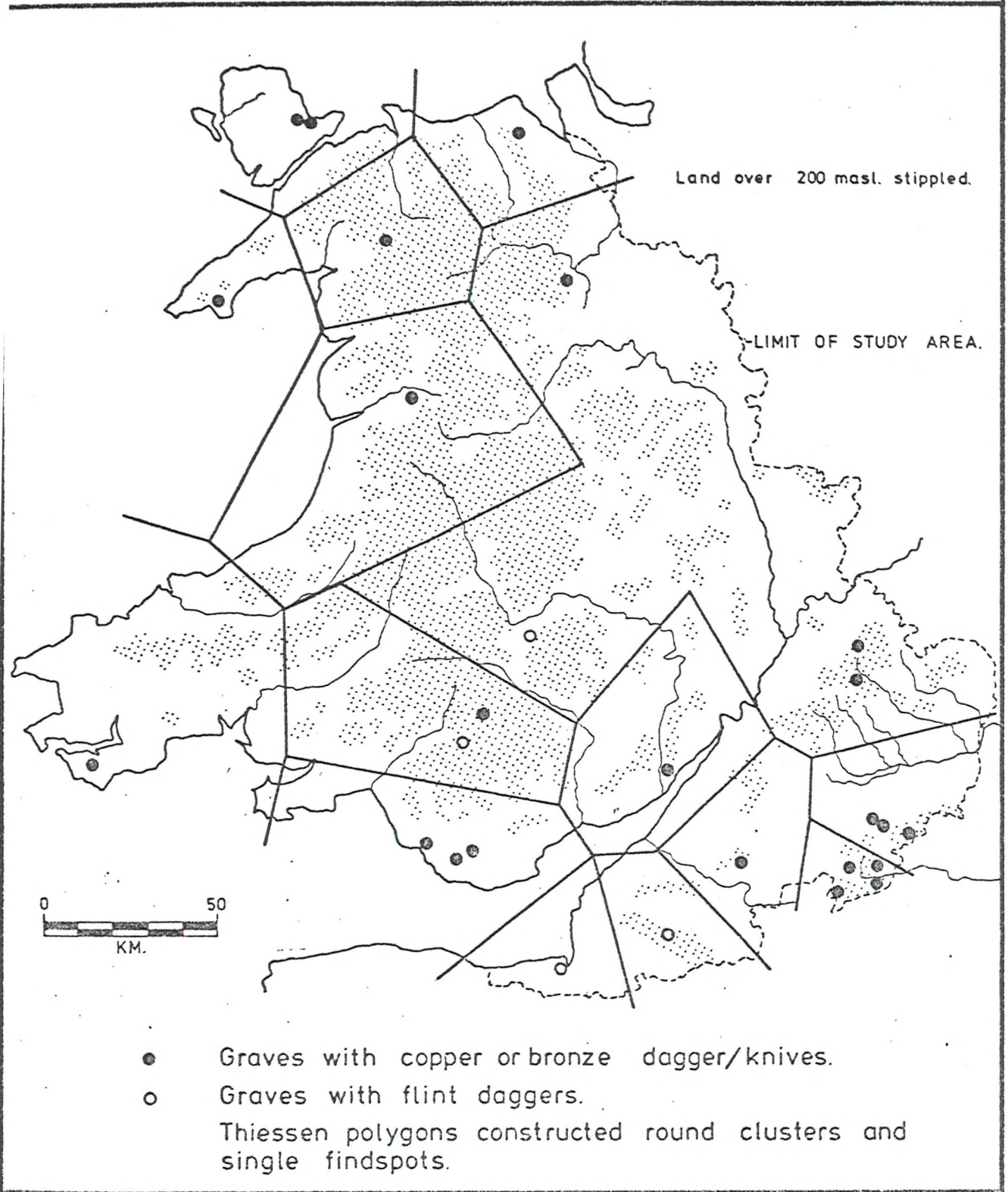


FIGURE 184. Distribution of stage 4 graves containing copper or bronze dagger/knives or flint daggers.

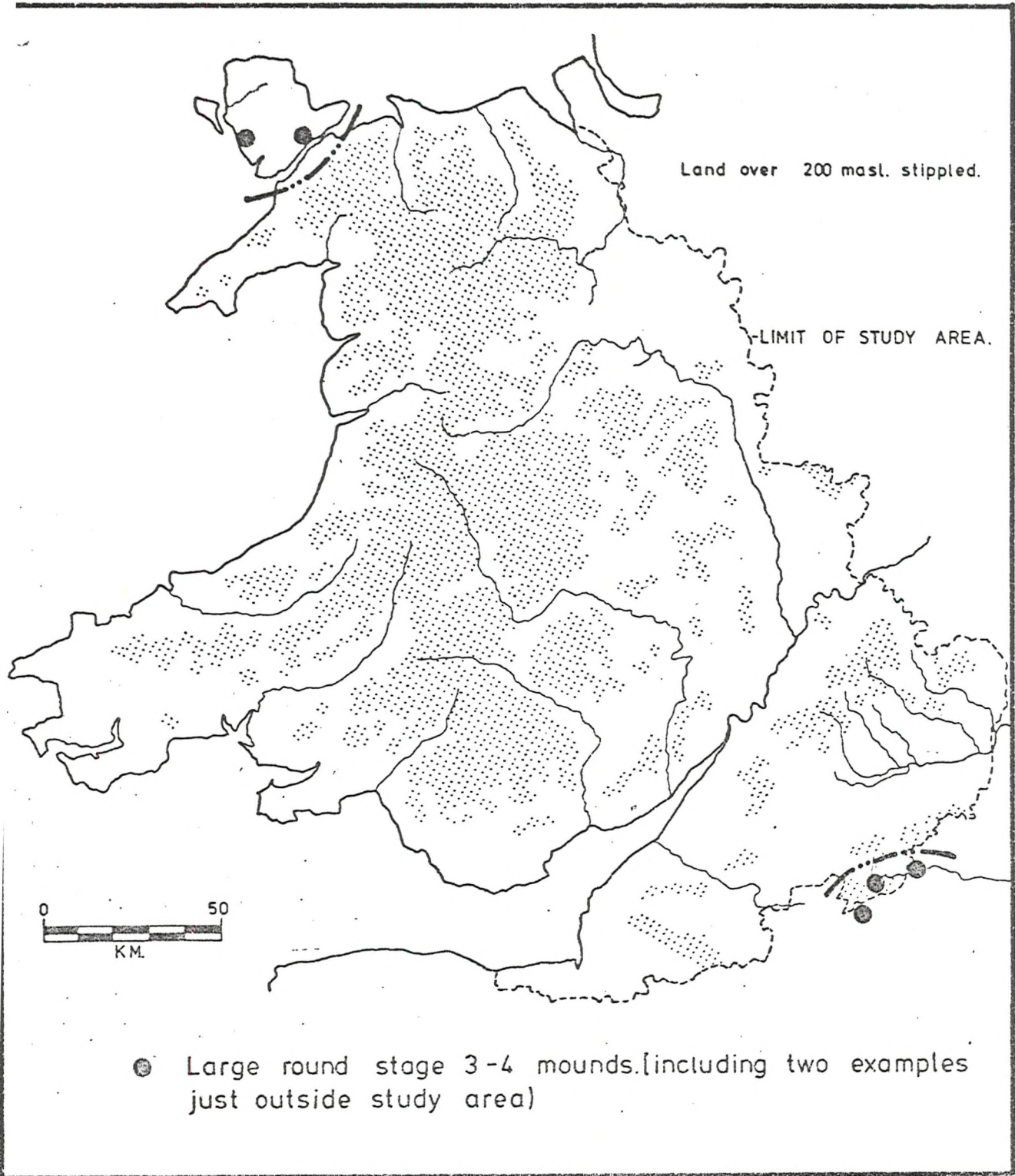


FIGURE 185. Distribution of stage 3-4 large round mounds.

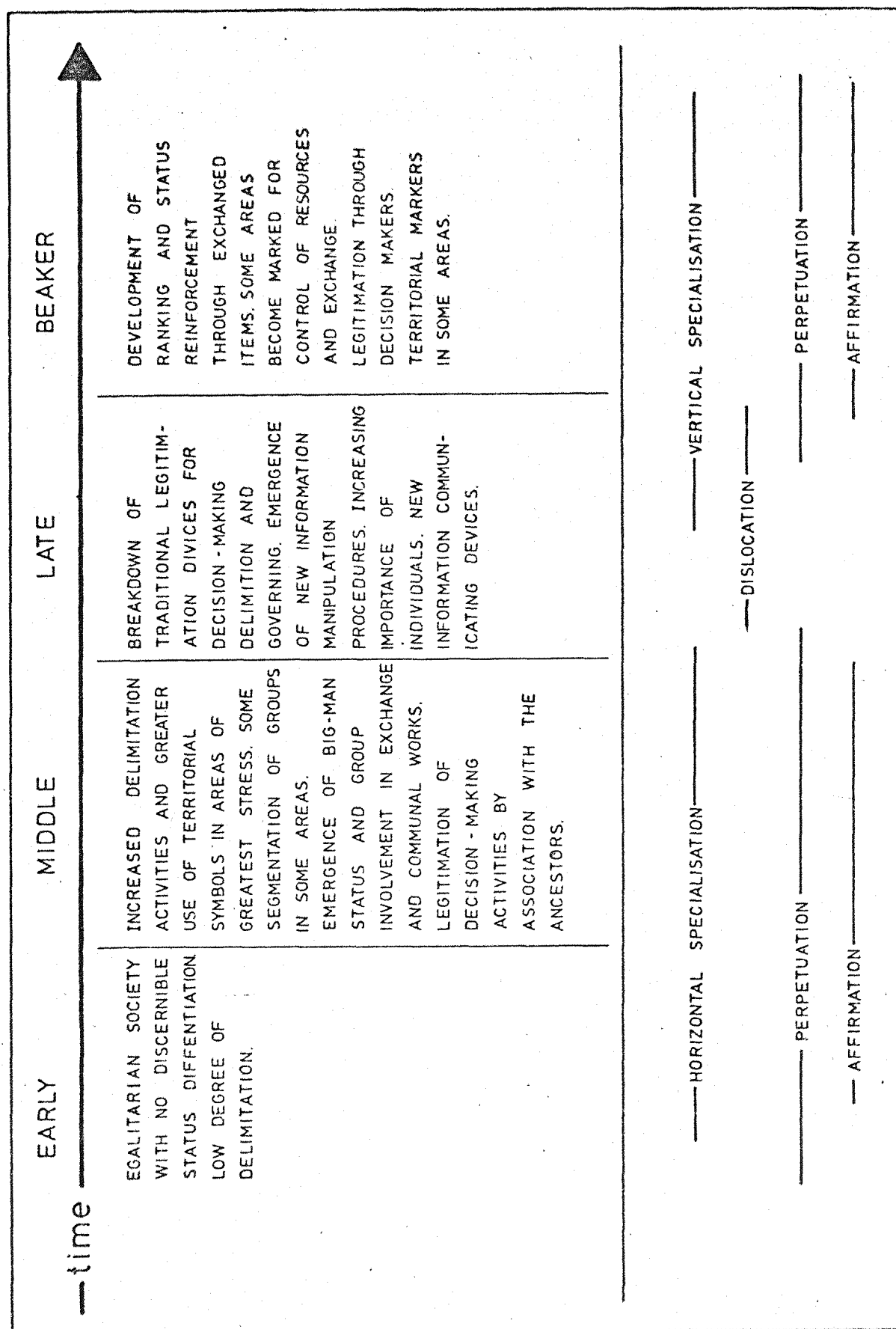


FIGURE 186. Summary of trajectory processes in the political subsystem.

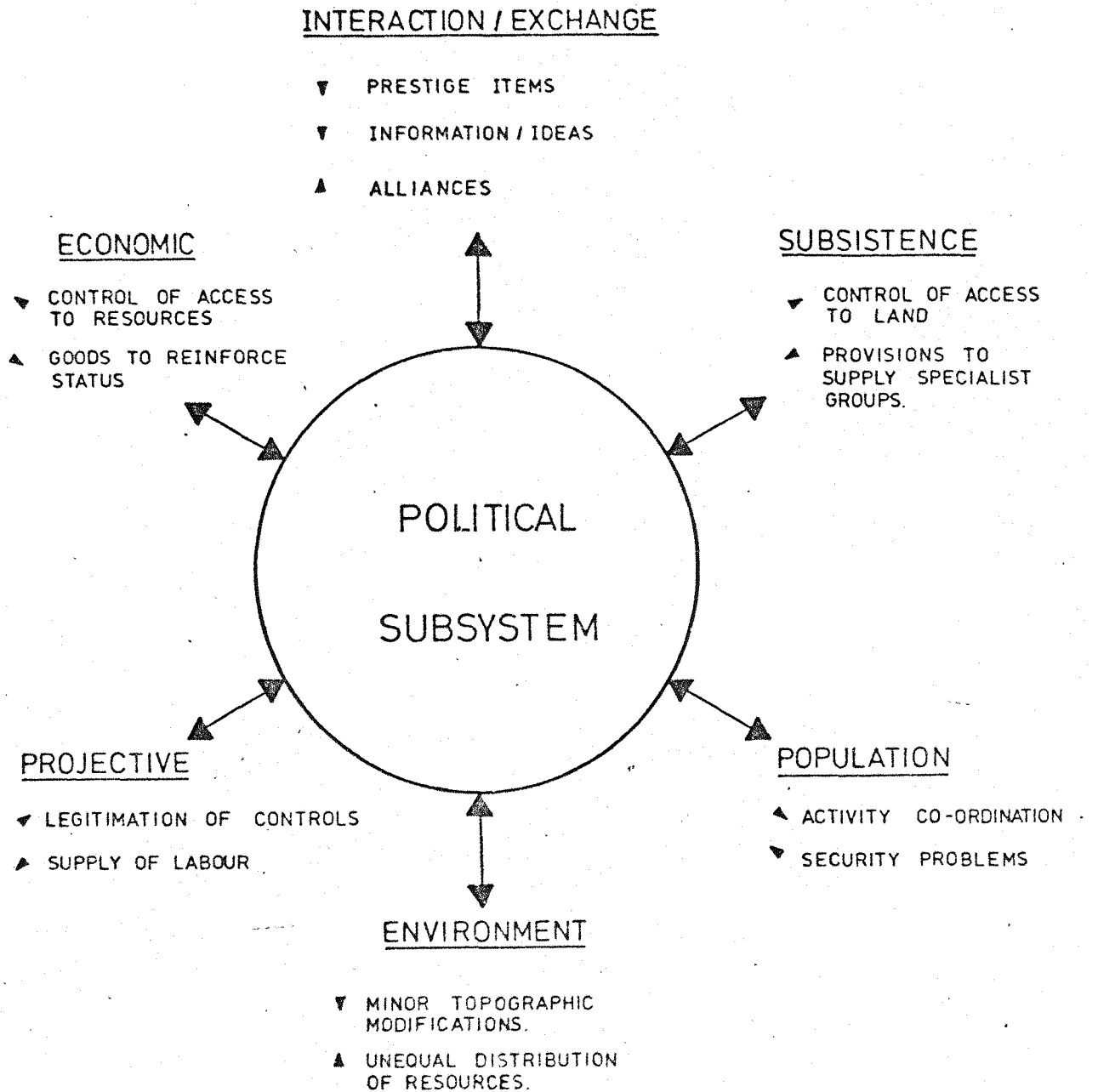


FIGURE 187. Summary of political subsystem inputs and outputs.

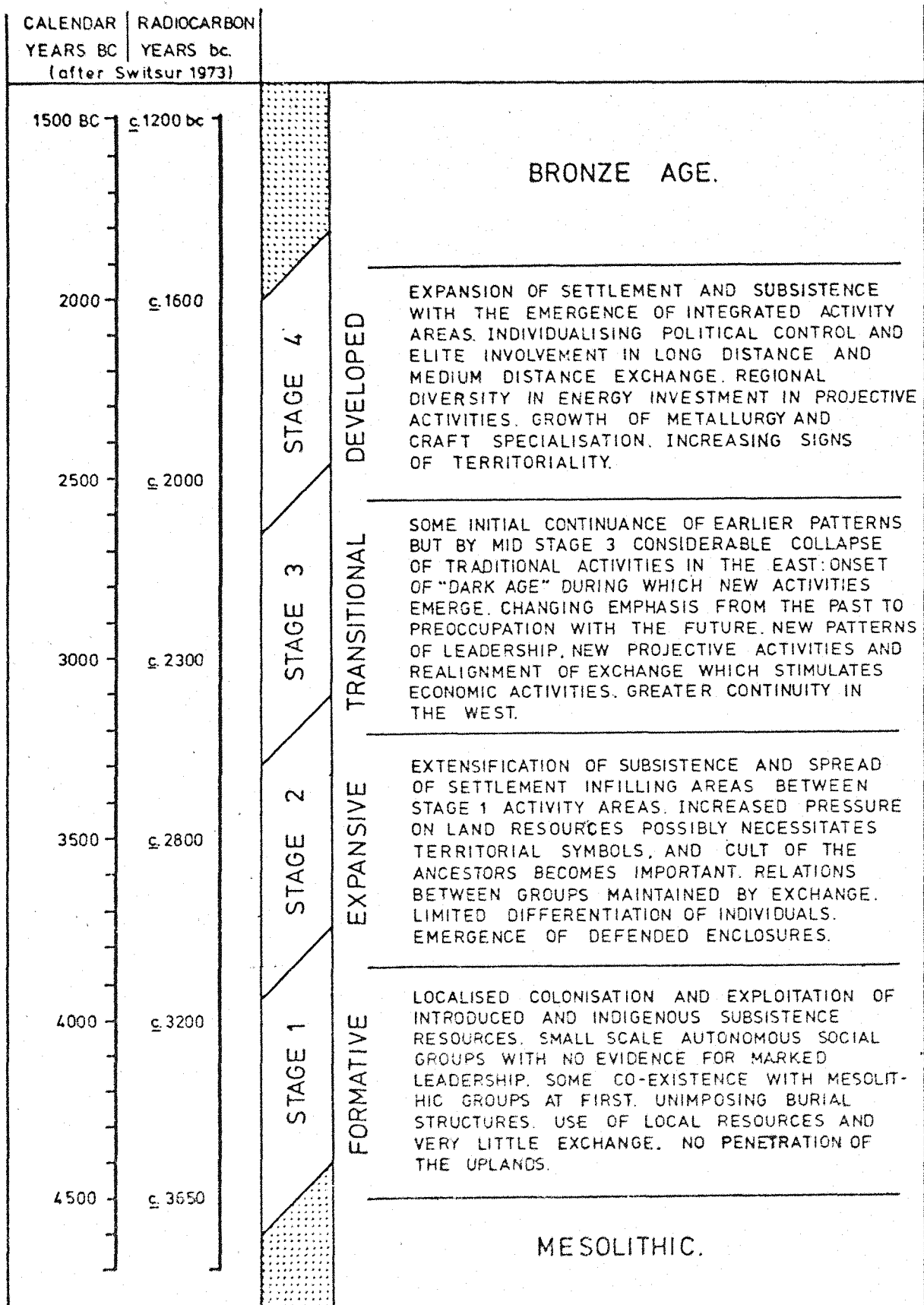


FIGURE 188. Summary of overall patterns of activity execution by stage.

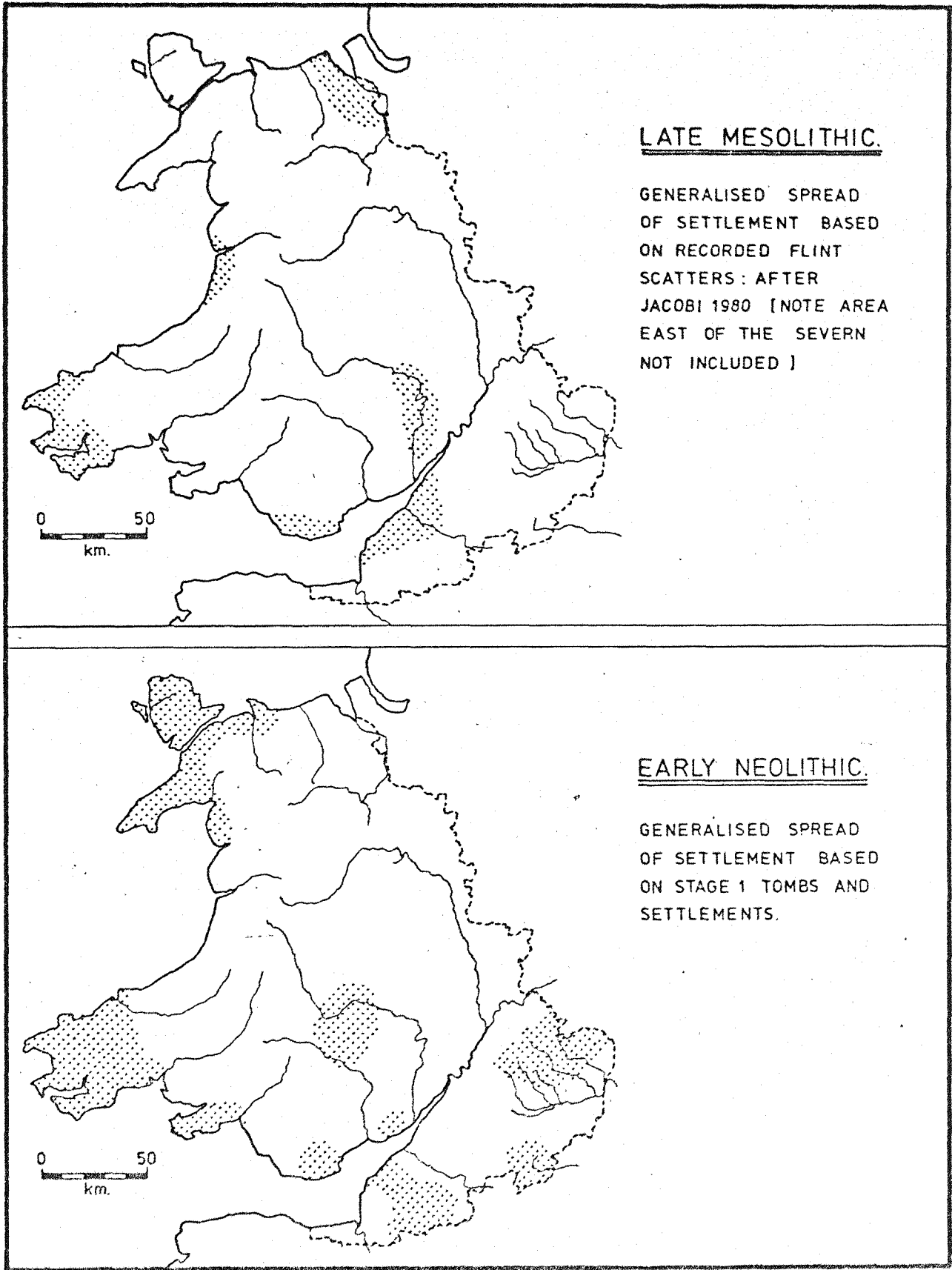


FIGURE 189. Distribution of early neolithic and mesolithic settlement.

LAND USE SPECTRA : 1941 - 1944.

(DATA FROM FIRST LAND UTILIZATION SURVEY)

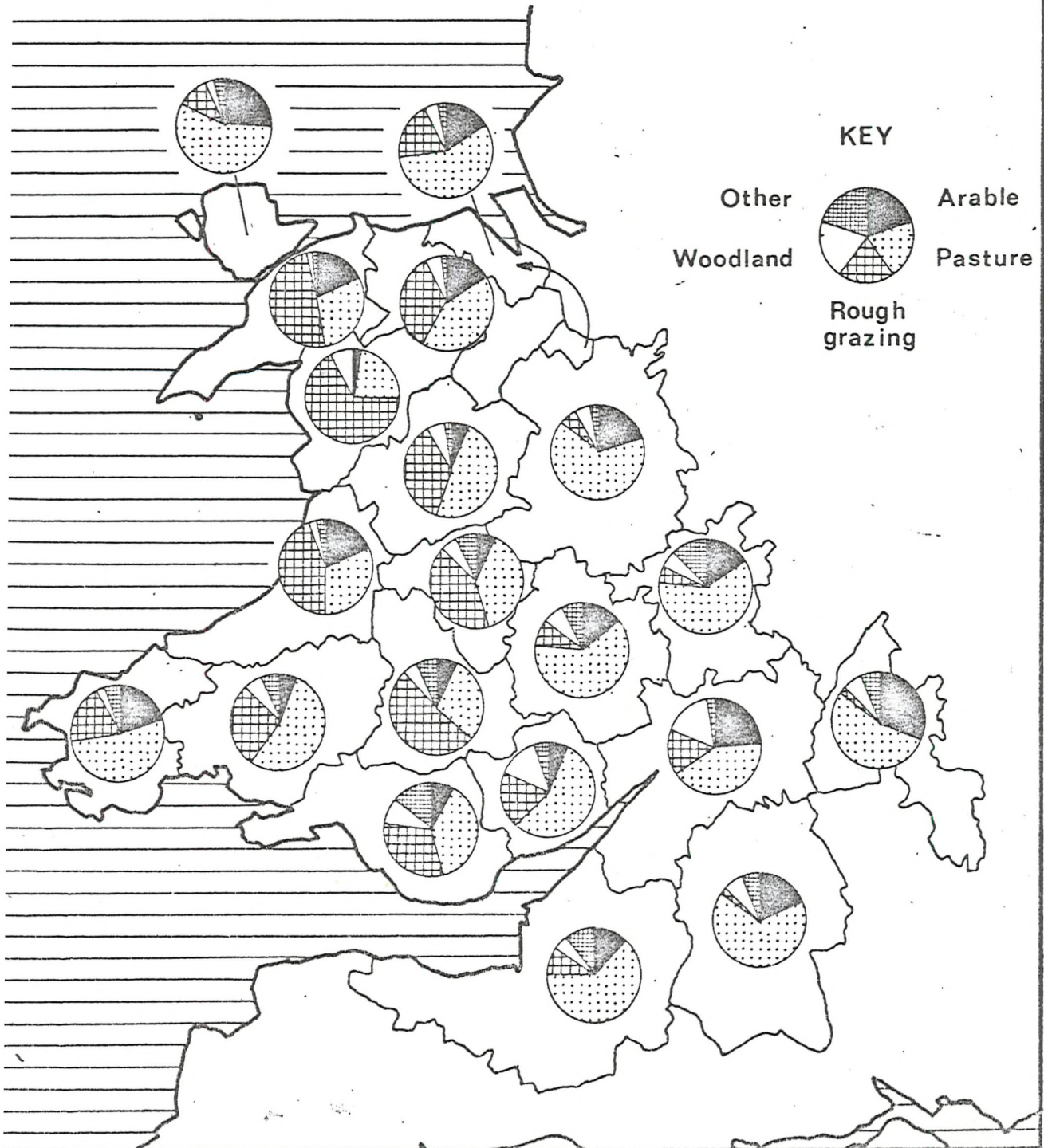


FIGURE 190. Land use spectra for counties in the study area.

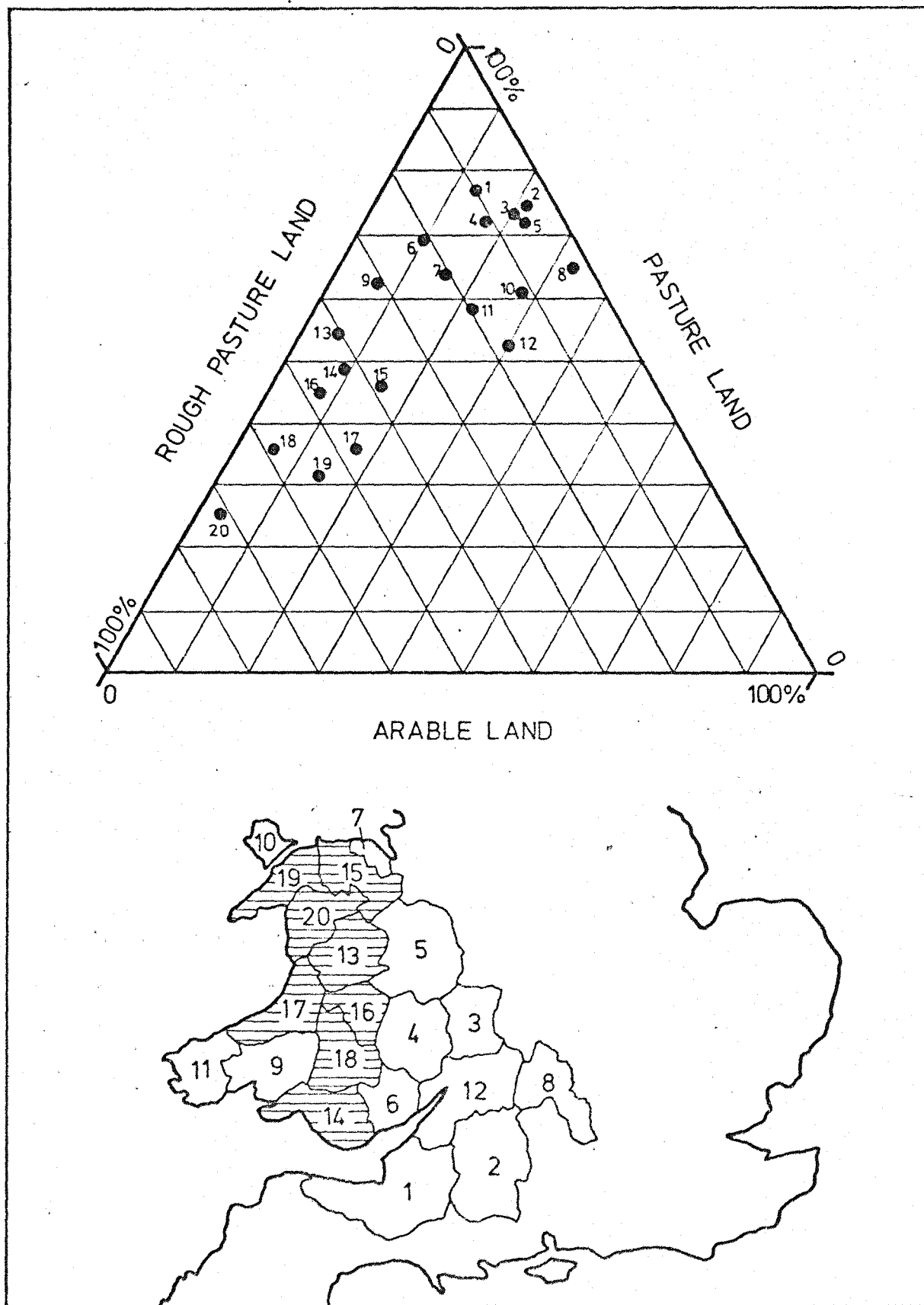


FIGURE 191. Subsistence strategy correlations and spatial spread of land Utilization groupings.

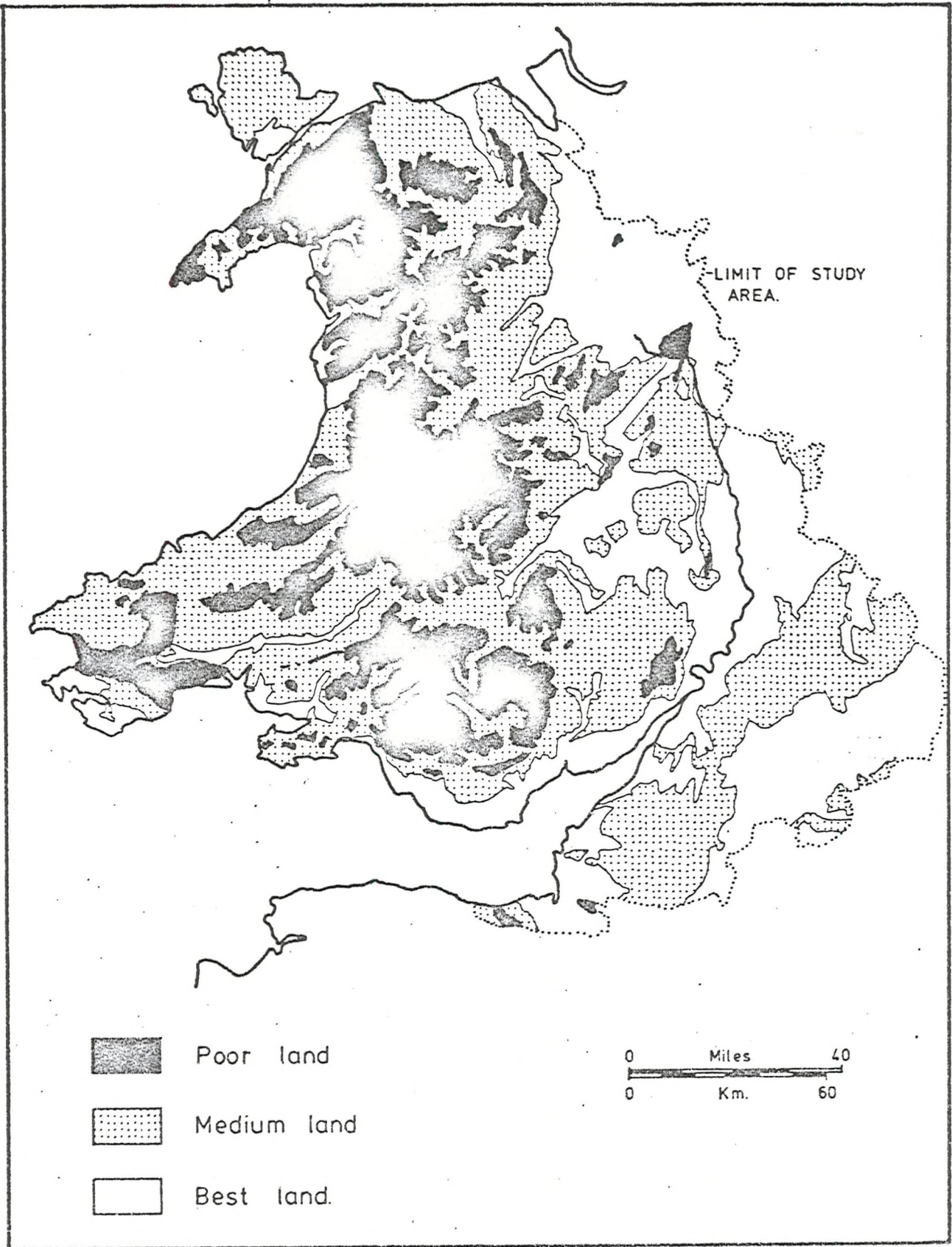


FIGURE 192. Generalised land classification in study area. (Sources: various)

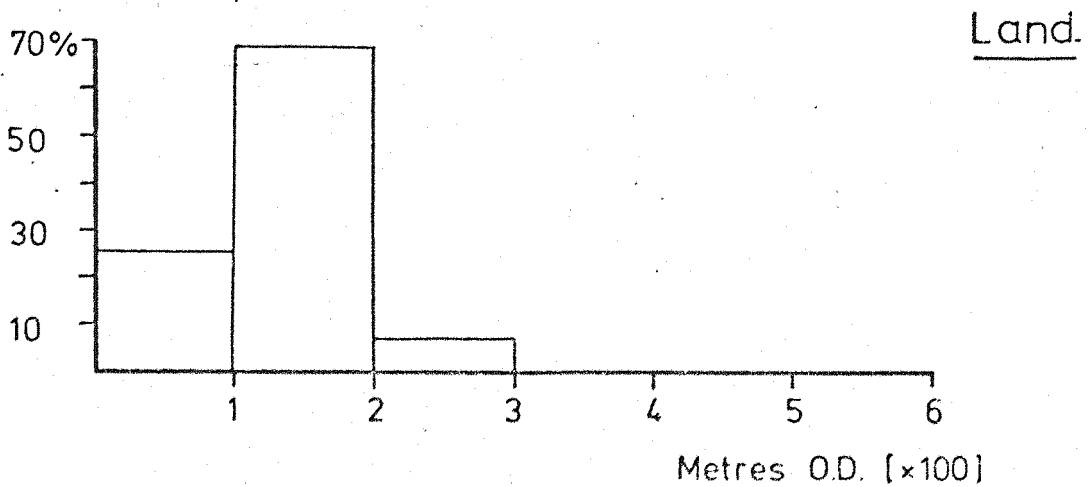
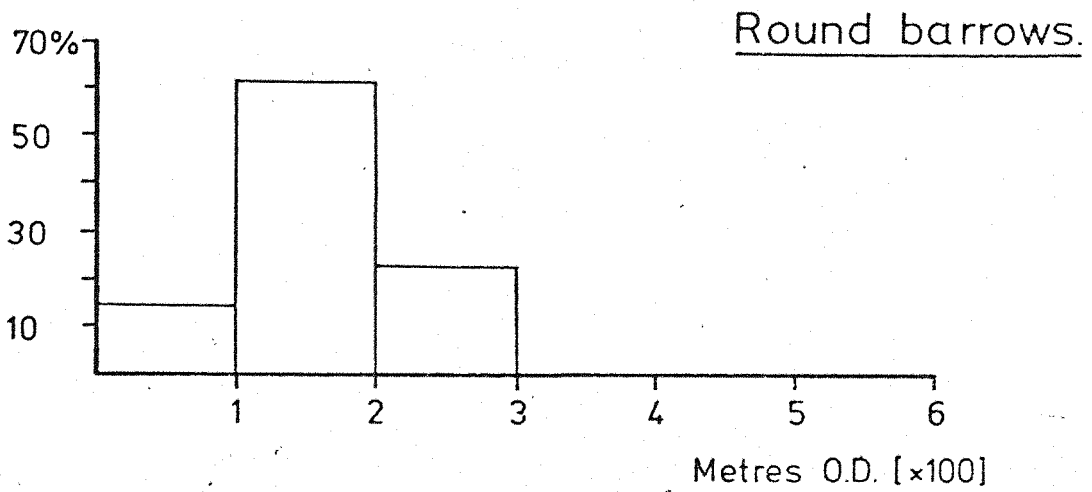
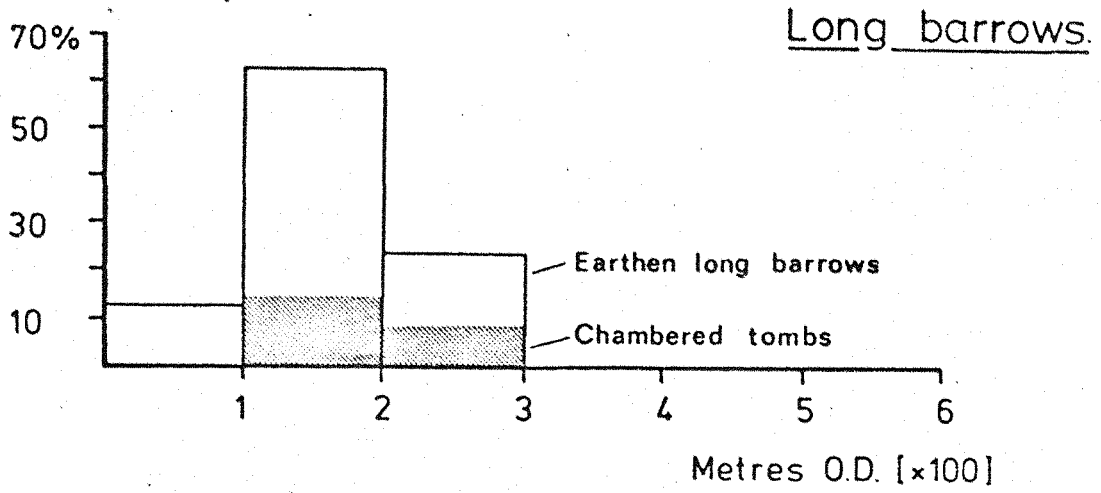


FIGURE 193. Barrow/land altitude distributions: Wiltshire.

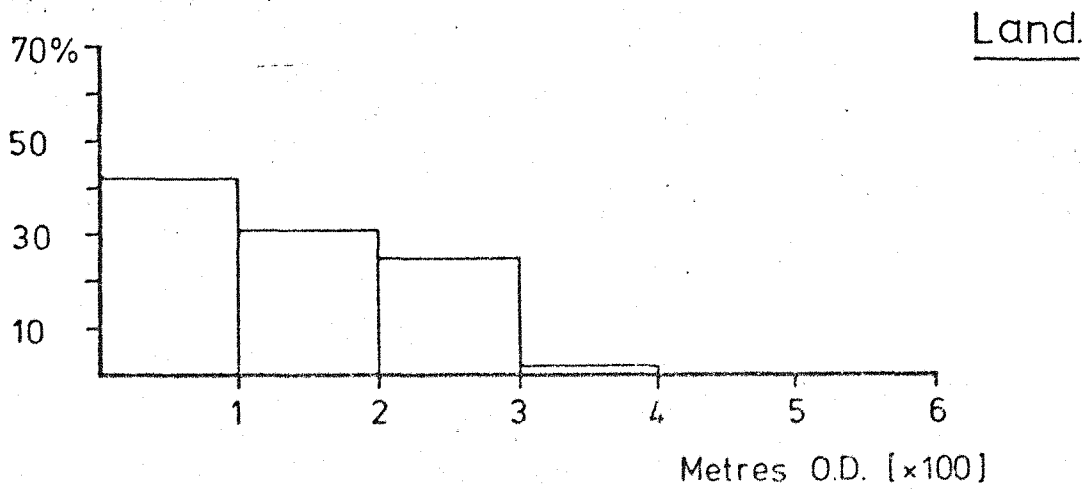
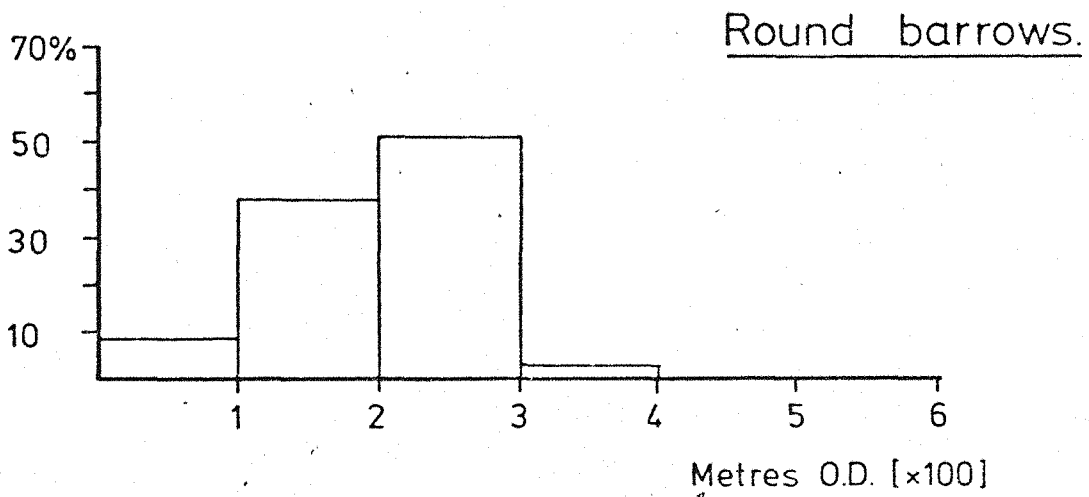
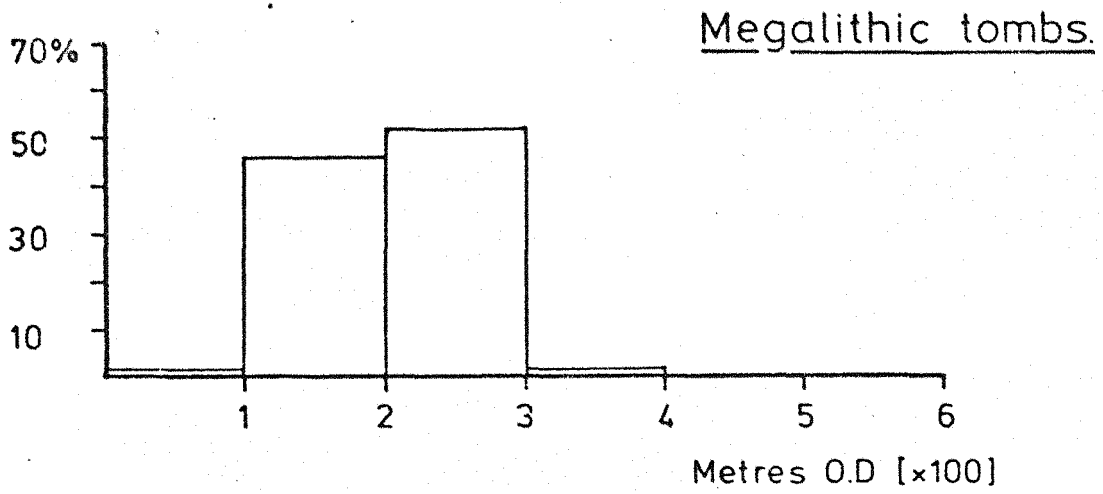


FIGURE 194. Barrow/land altitude distributions: Gloucestershire.

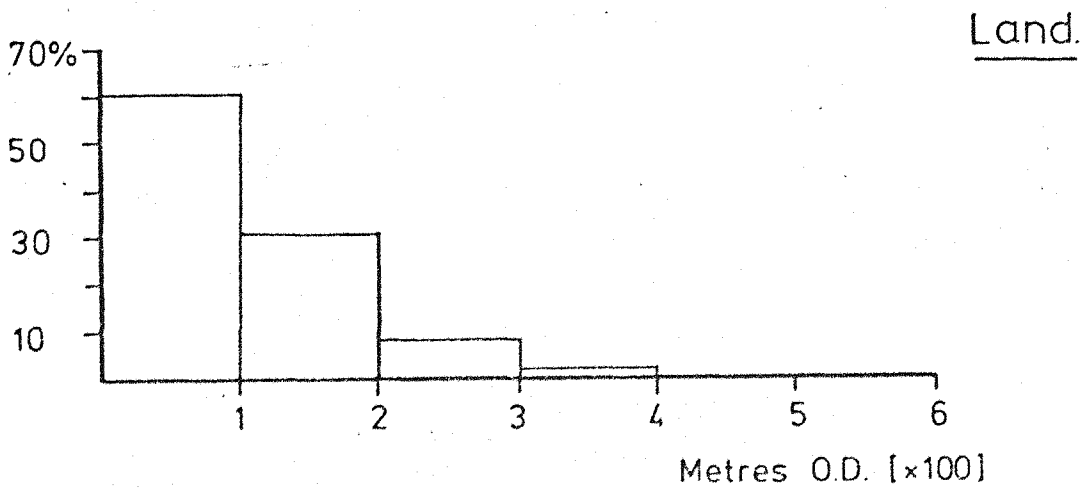
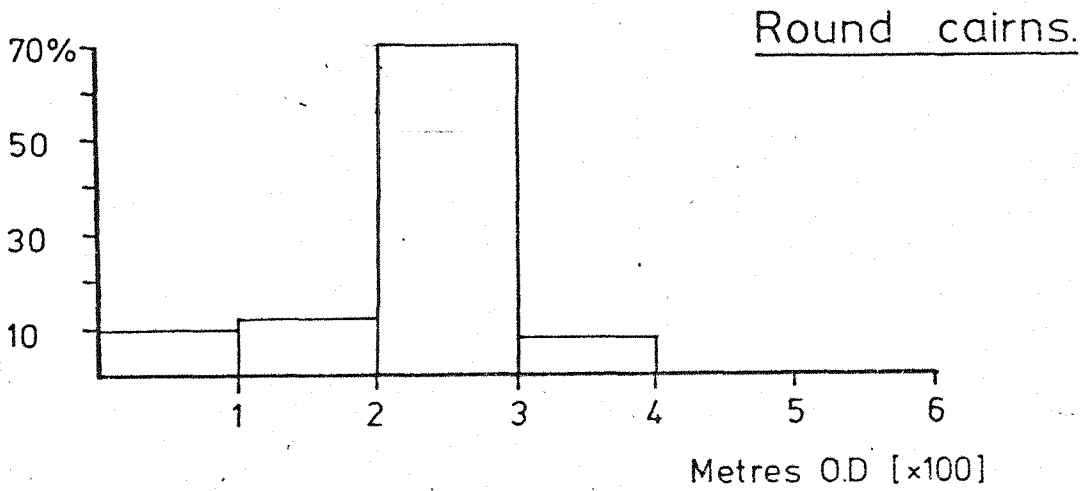
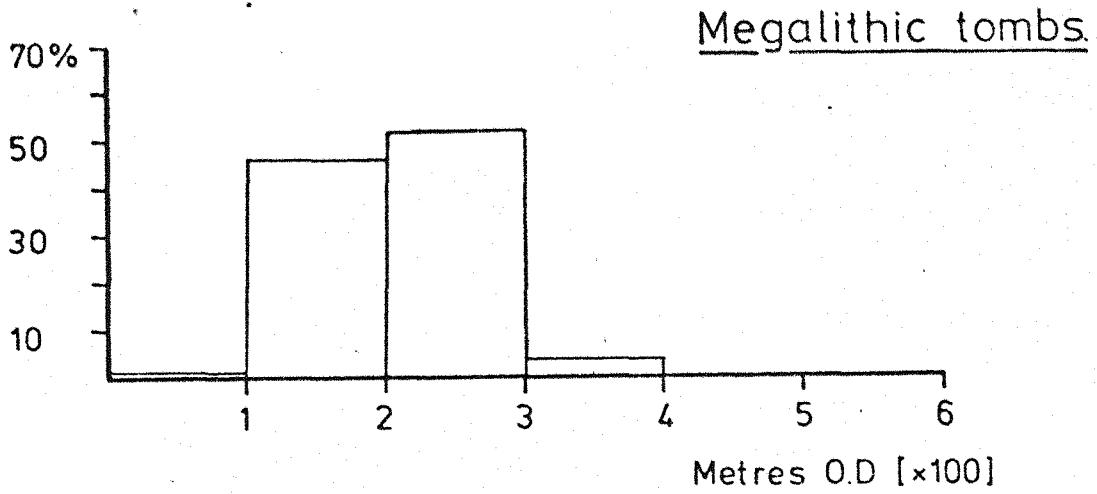


FIGURE 195. Barrow/land altitude distributions: Somerset (north and east).

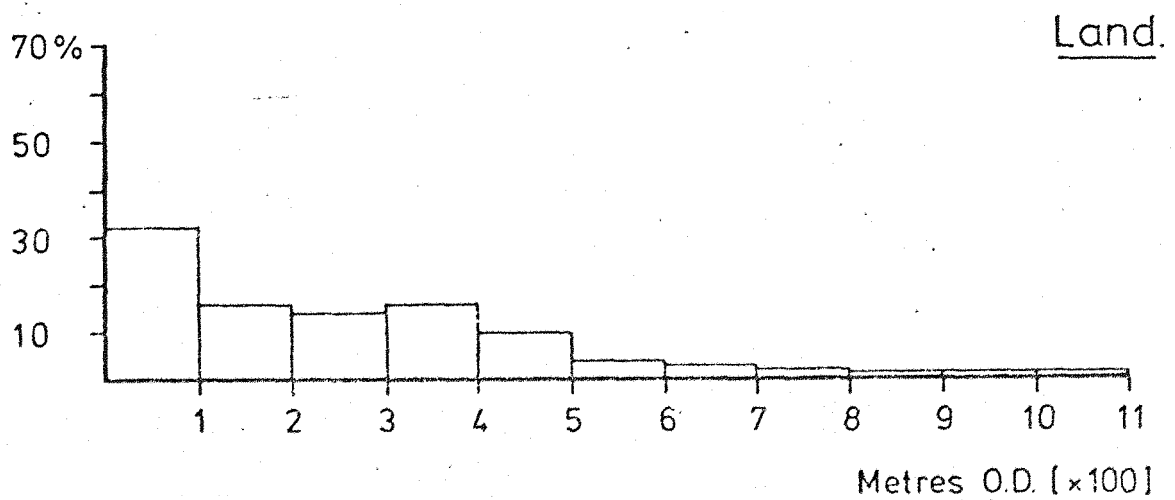
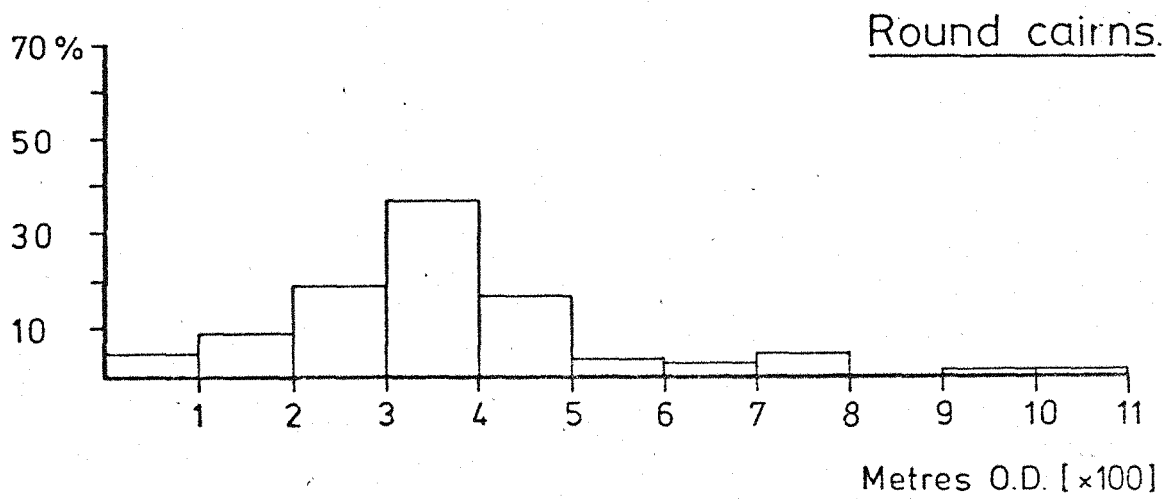
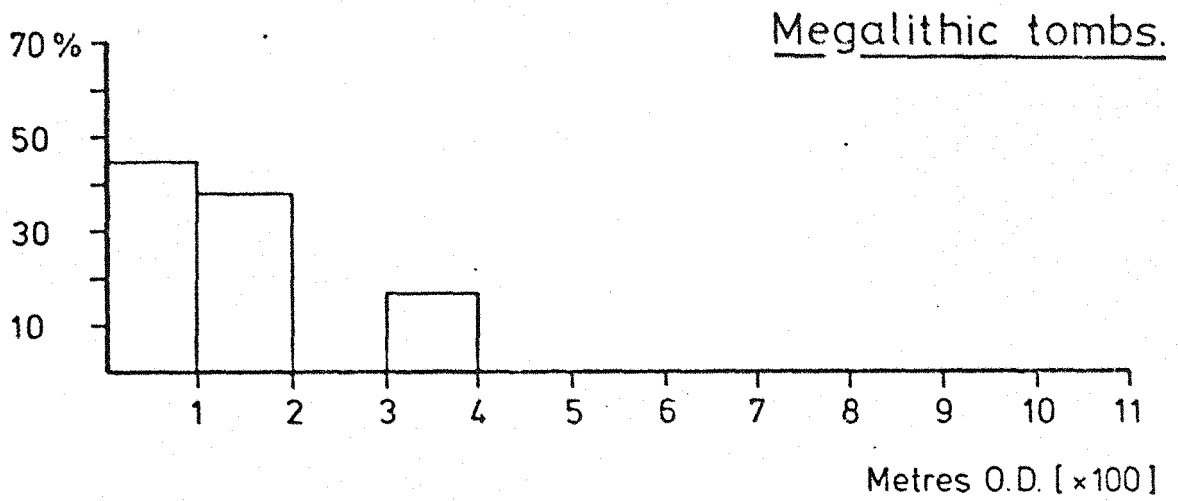


FIGURE 196. Barrow/land altitude distributions: Caernarvonshire.

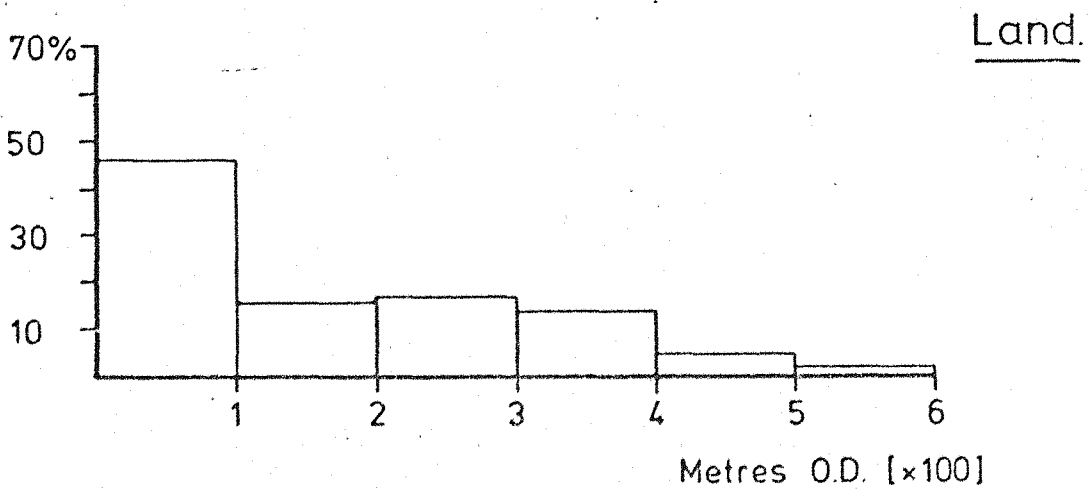
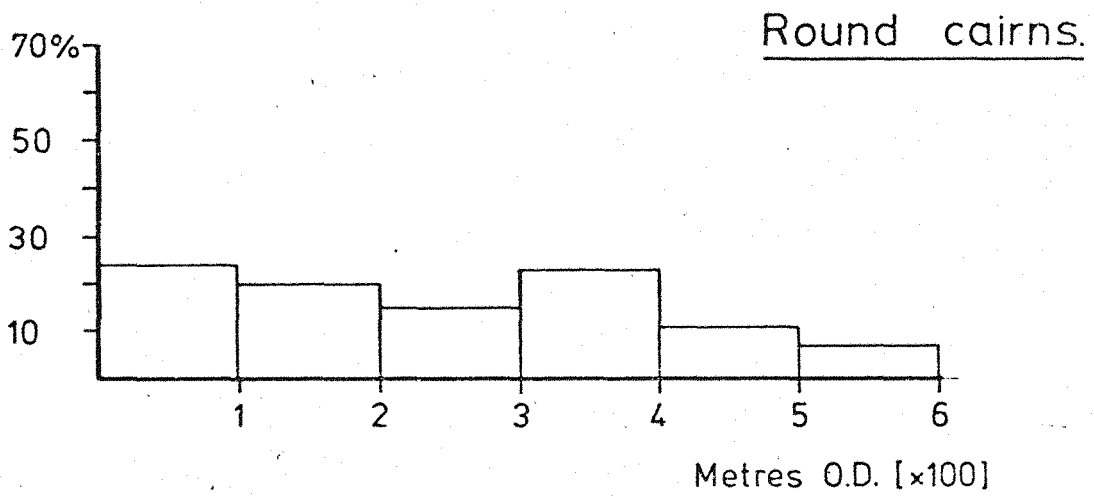
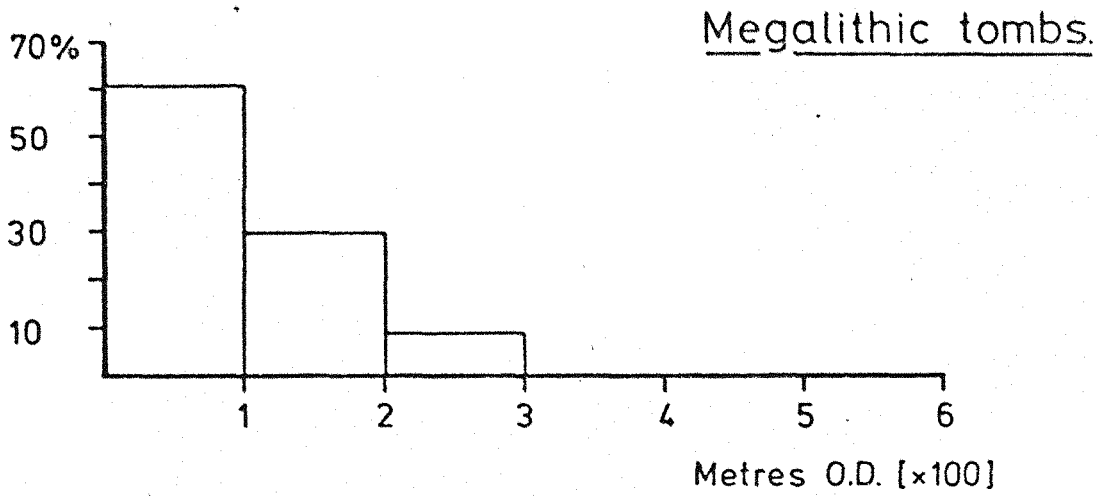


FIGURE 197. Barrow/land altitude distributions: Glamorgan.

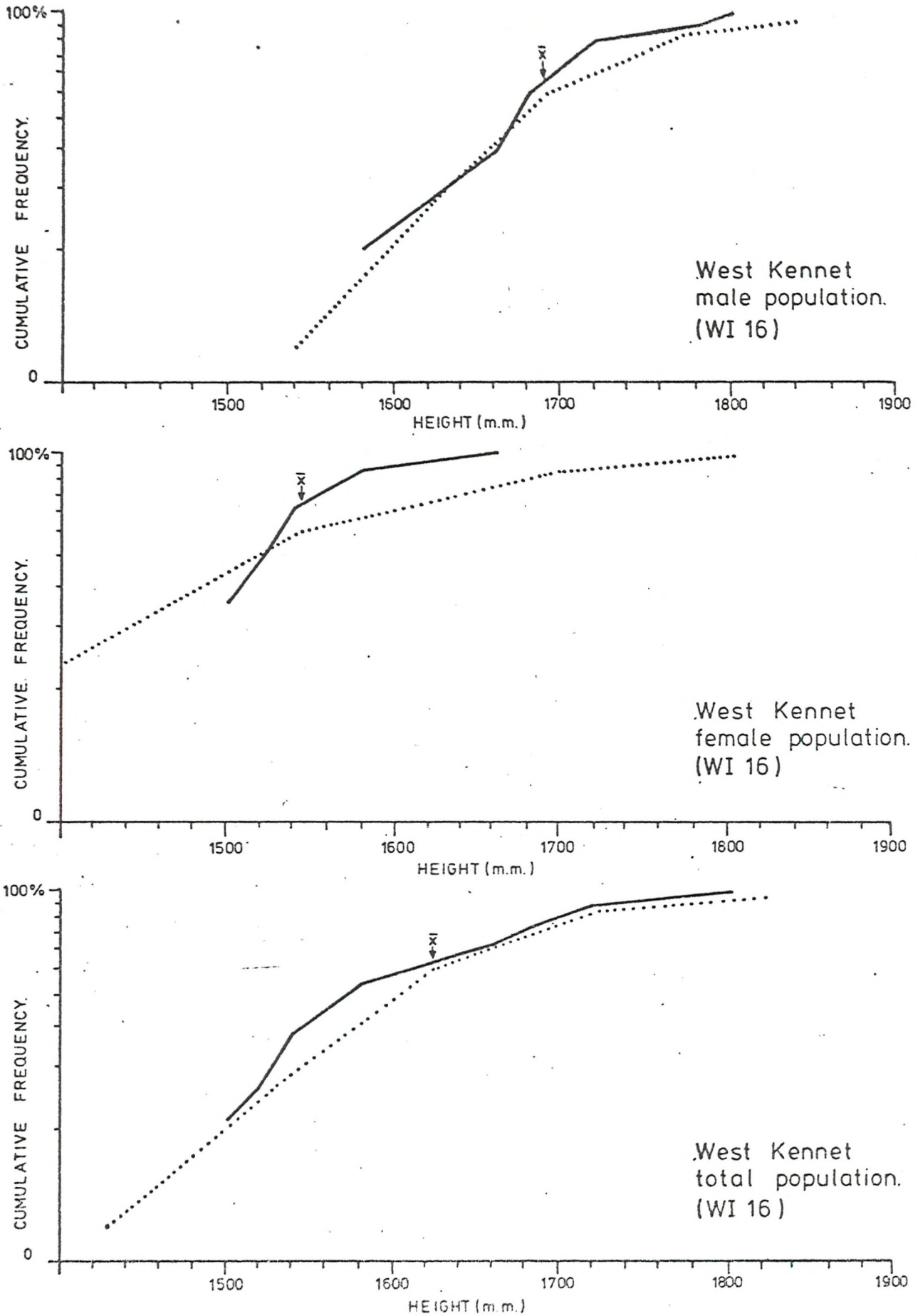


FIGURE 198. Curves showing the stature of the West Kennet (WI 16) neolithic population.

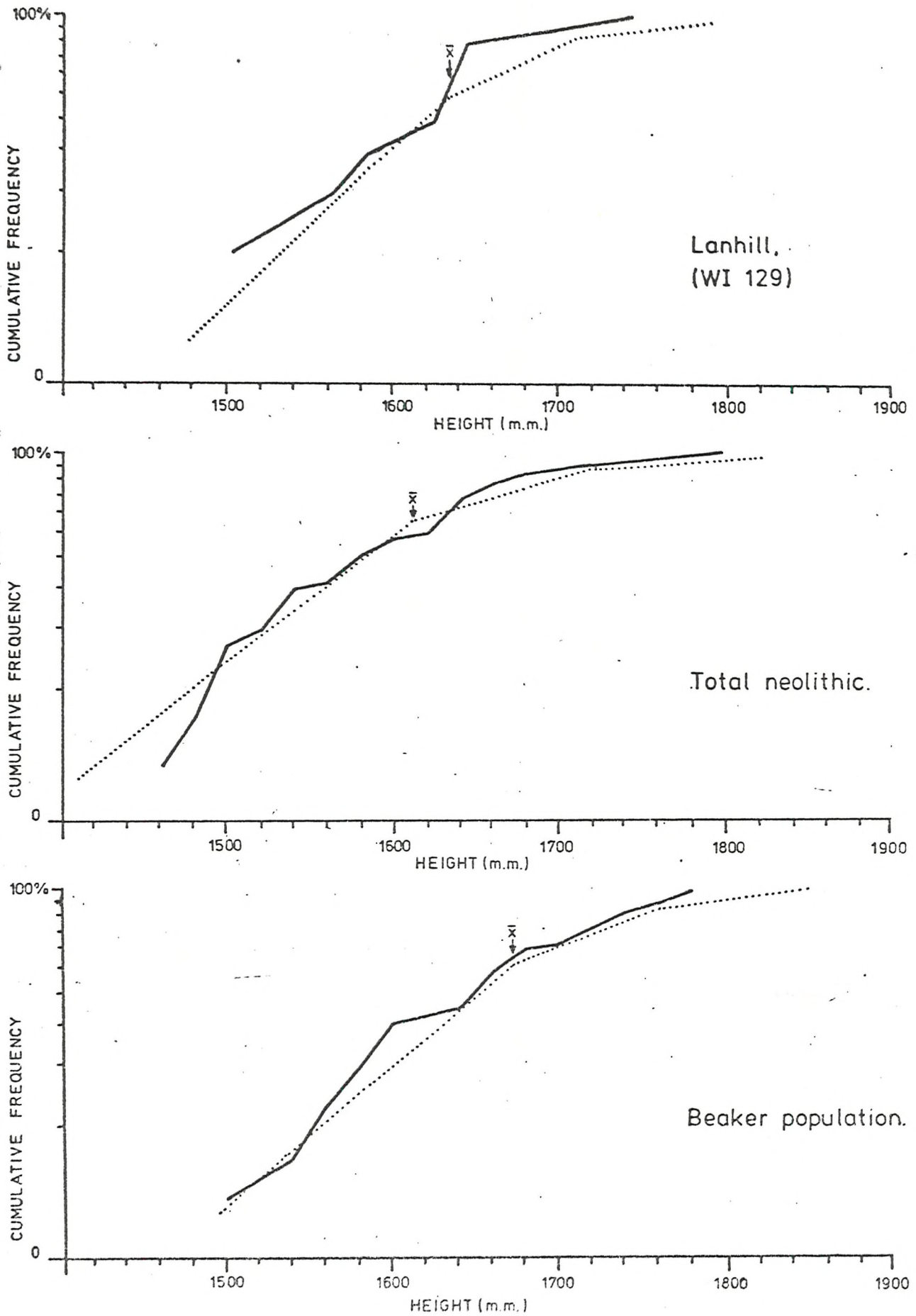


FIGURE 199. Graphs showing the stature of neolithic and early bronze age populations.

Weights standardized to height 1685 mm. for males, 1575 mm. for females.

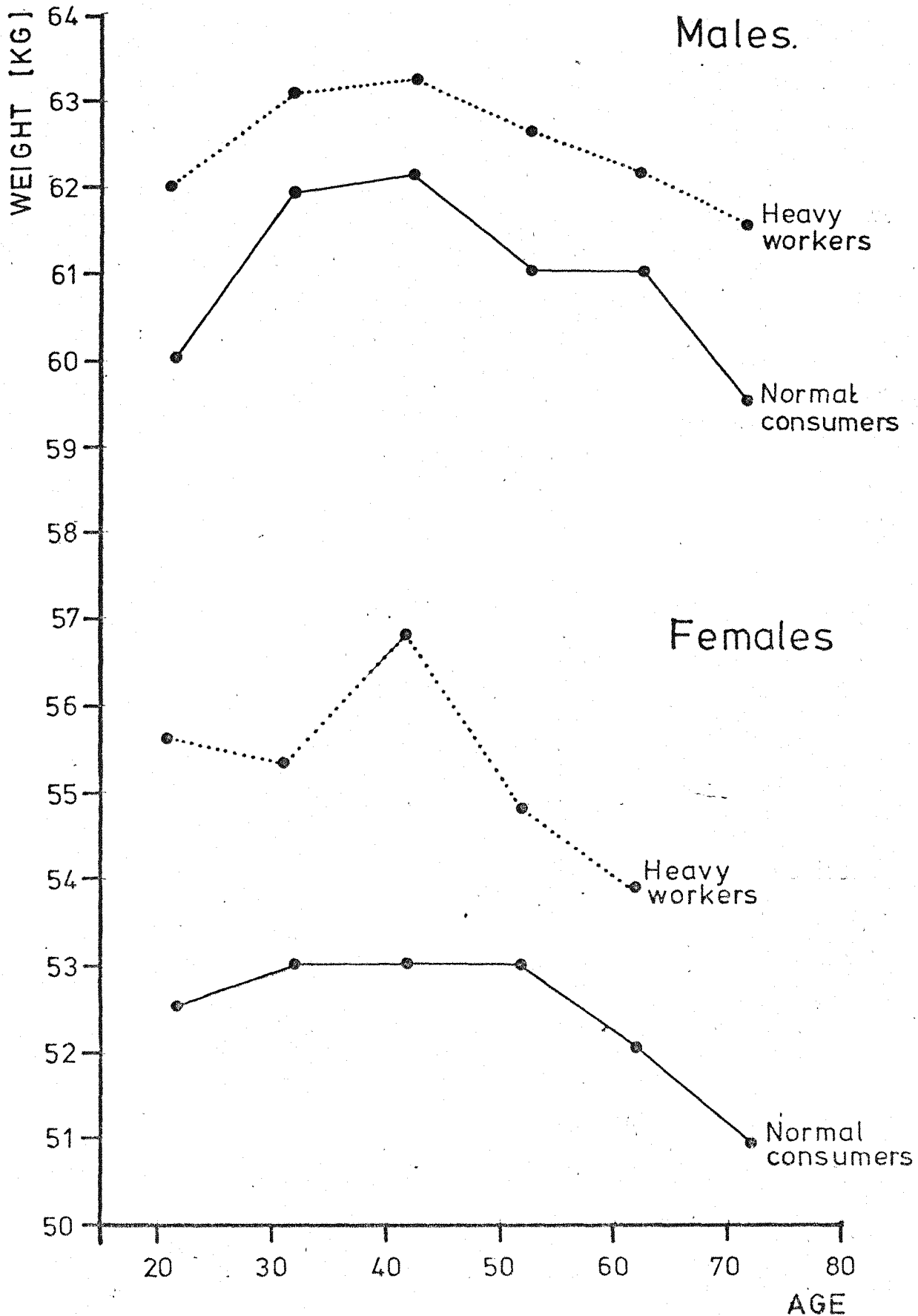


FIGURE 200. Graph showing correlation between age and weight.
(From Morant 1948)

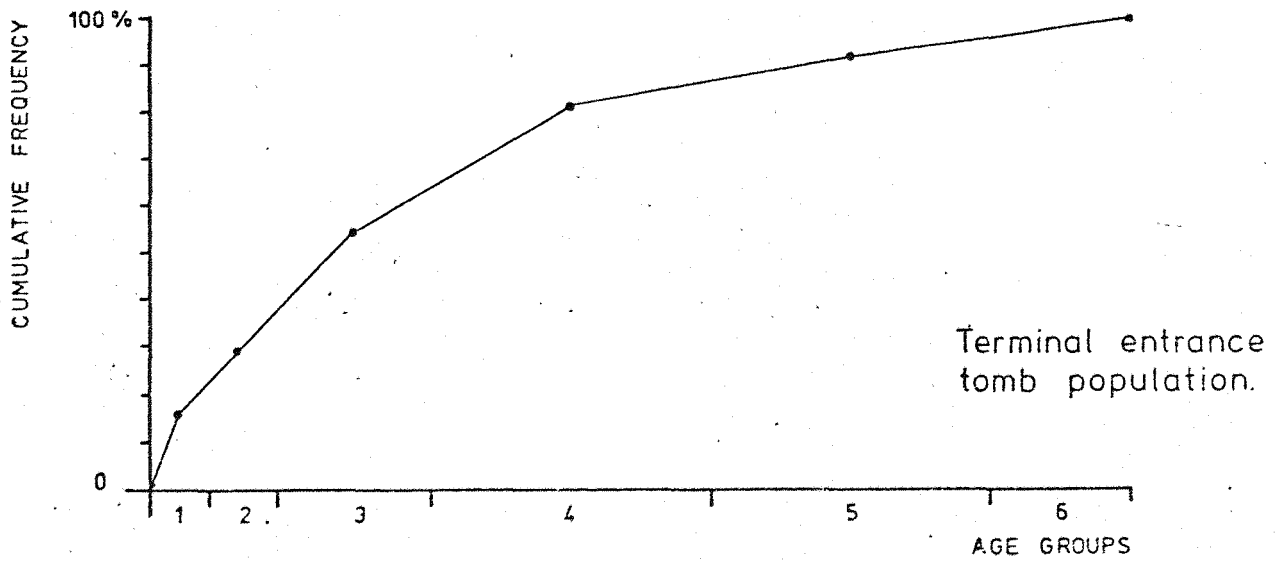
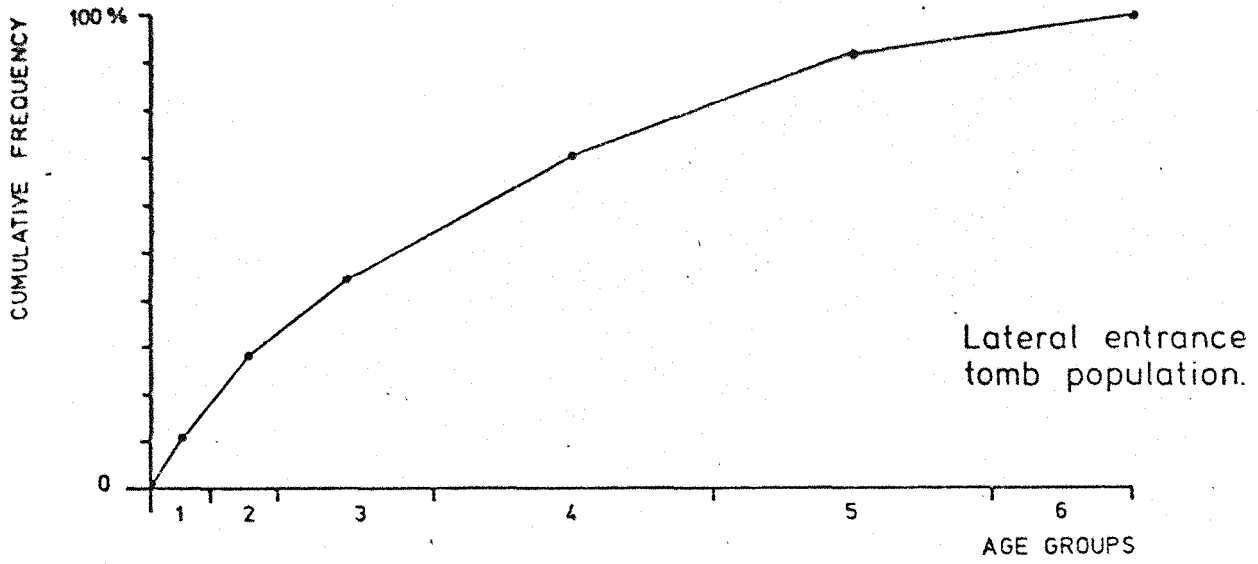


FIGURE 201. Age at death frequency curves for neolithic populations.

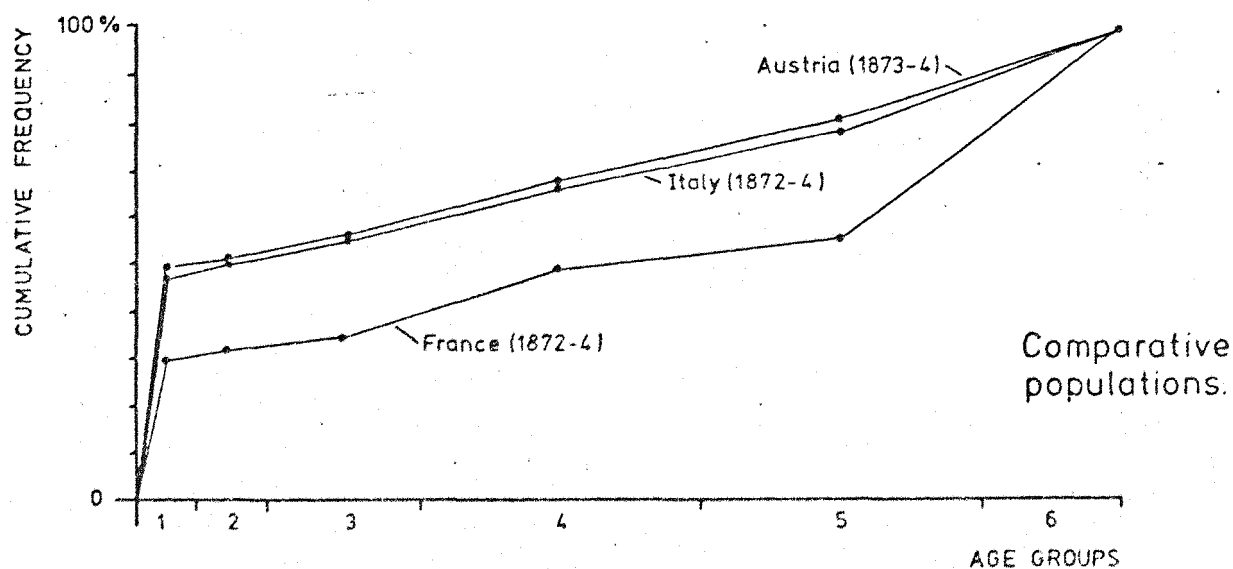
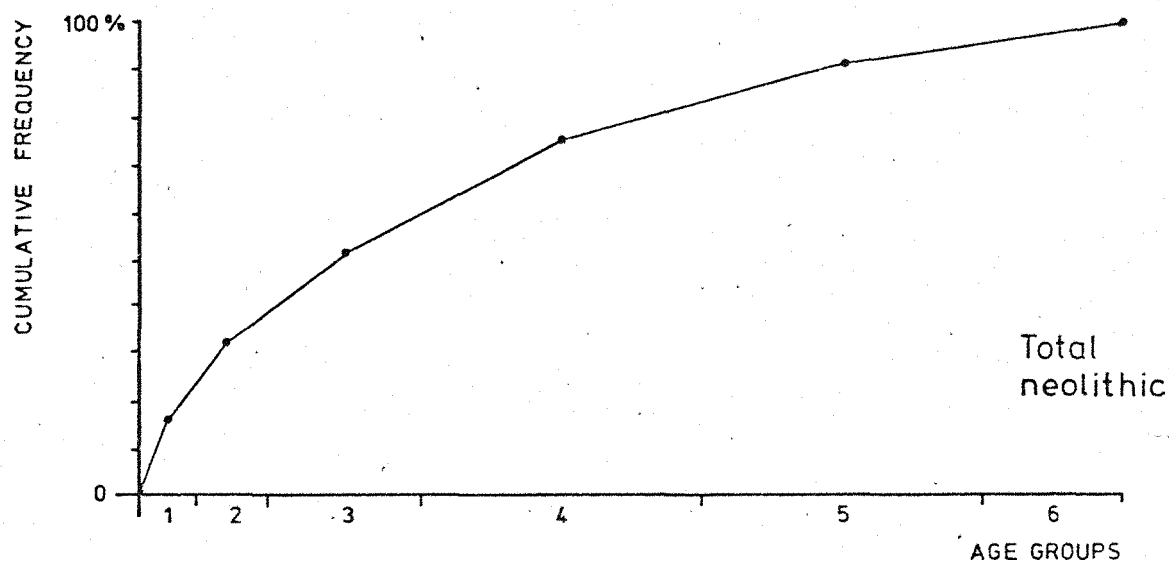
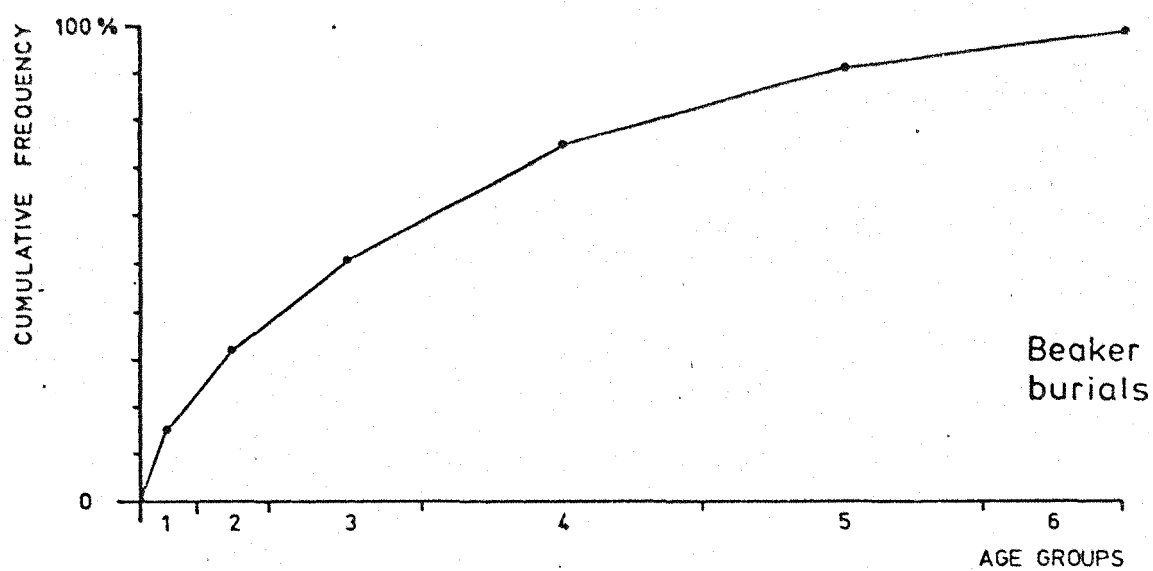


FIGURE 202. Age at death frequency curves for neolithic and comparative populations.

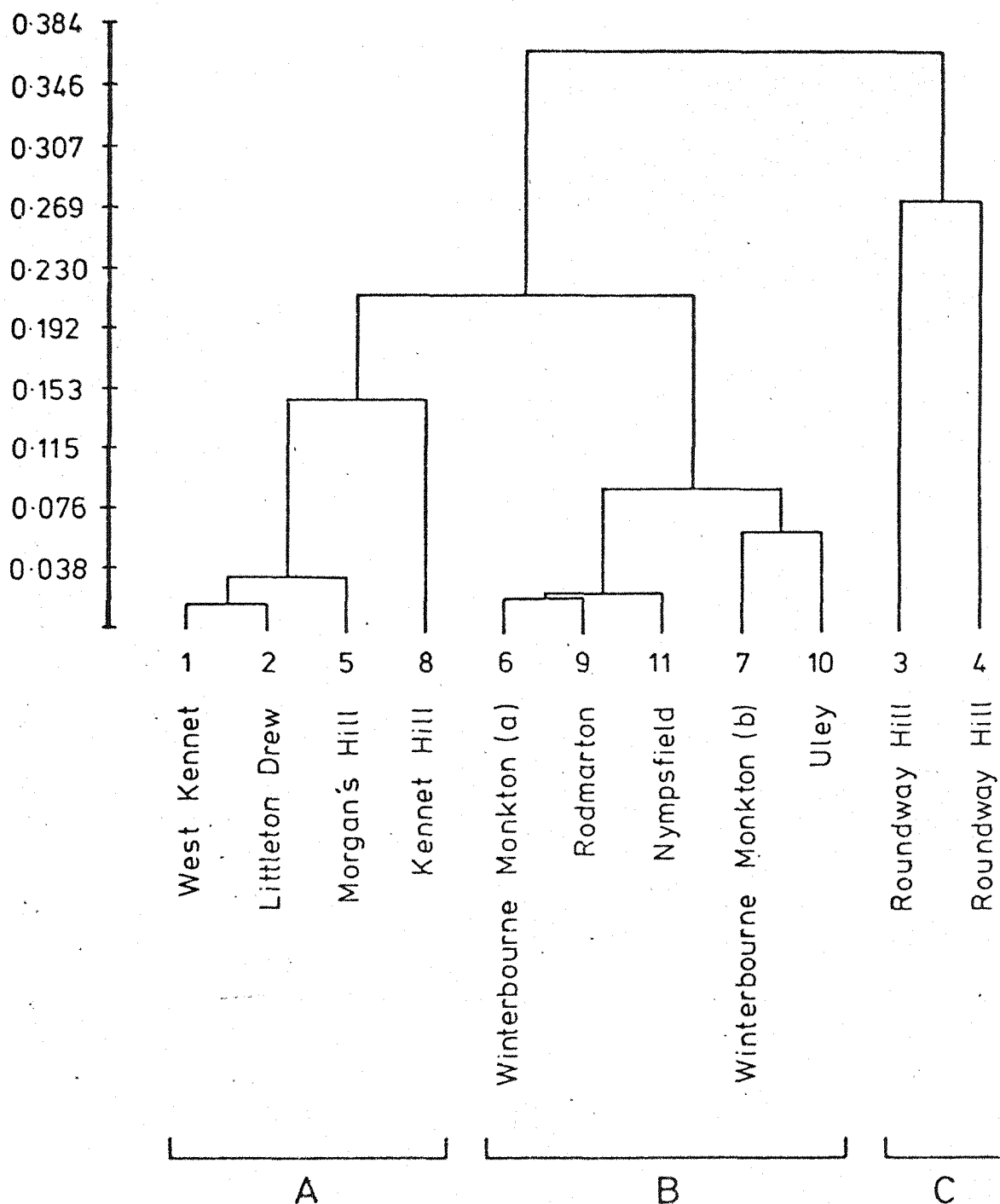
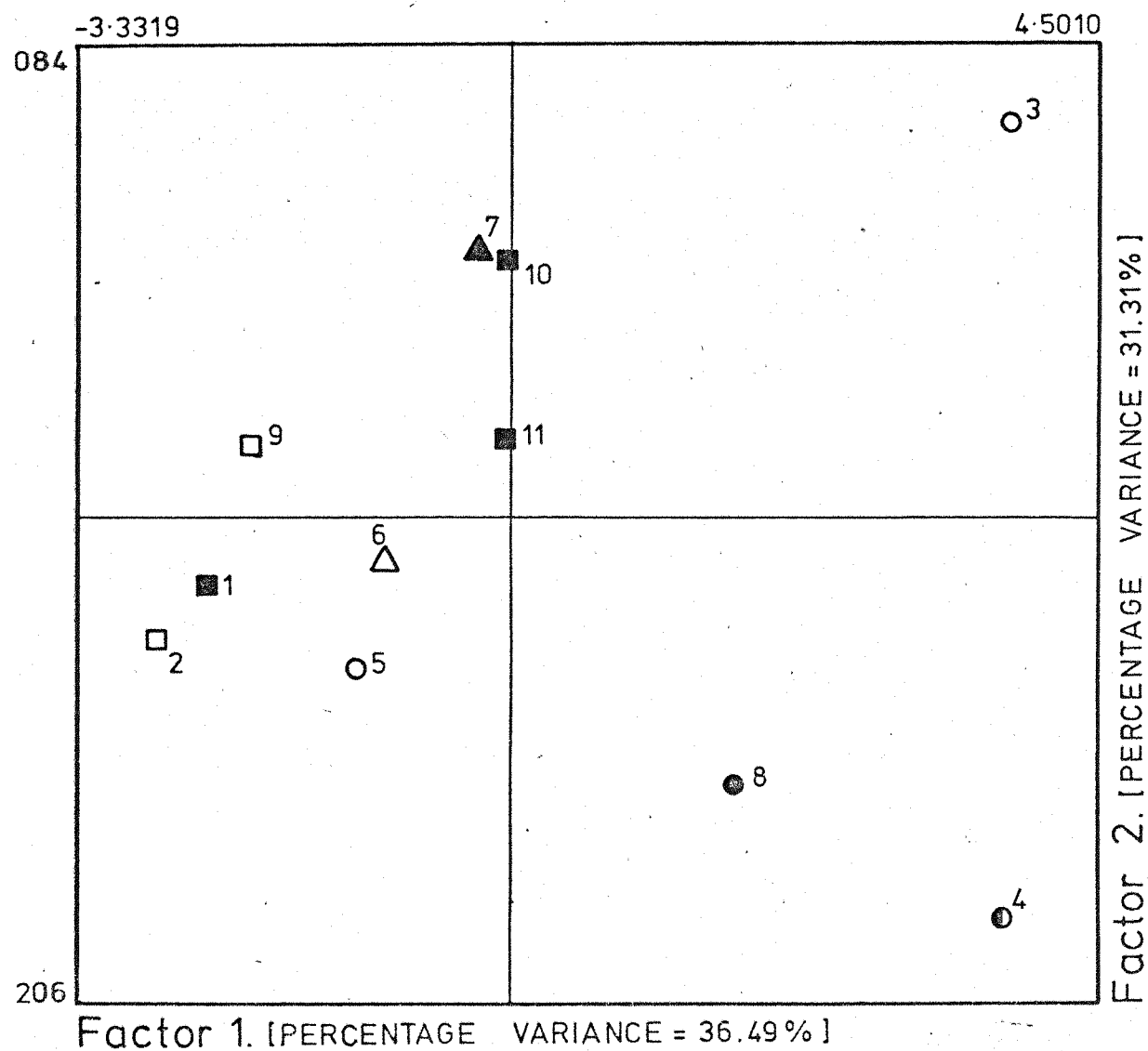


FIGURE 203. Dendrogram of neolithic and bronze age populations in north Wiltshire and south Gloucestershire.



ambered tombs -	lateral entrances	□
	terminal entrances	■
stone graves -	unaccompanied	△
	with beaker	▲
round barrows -	unaccompanied	○
	with beaker	●
	E.B.A. metalwork	●

FIGURE 204. Principal components plot of neolithic and bronze age populations in north Wiltshire and south Gloucestershire.

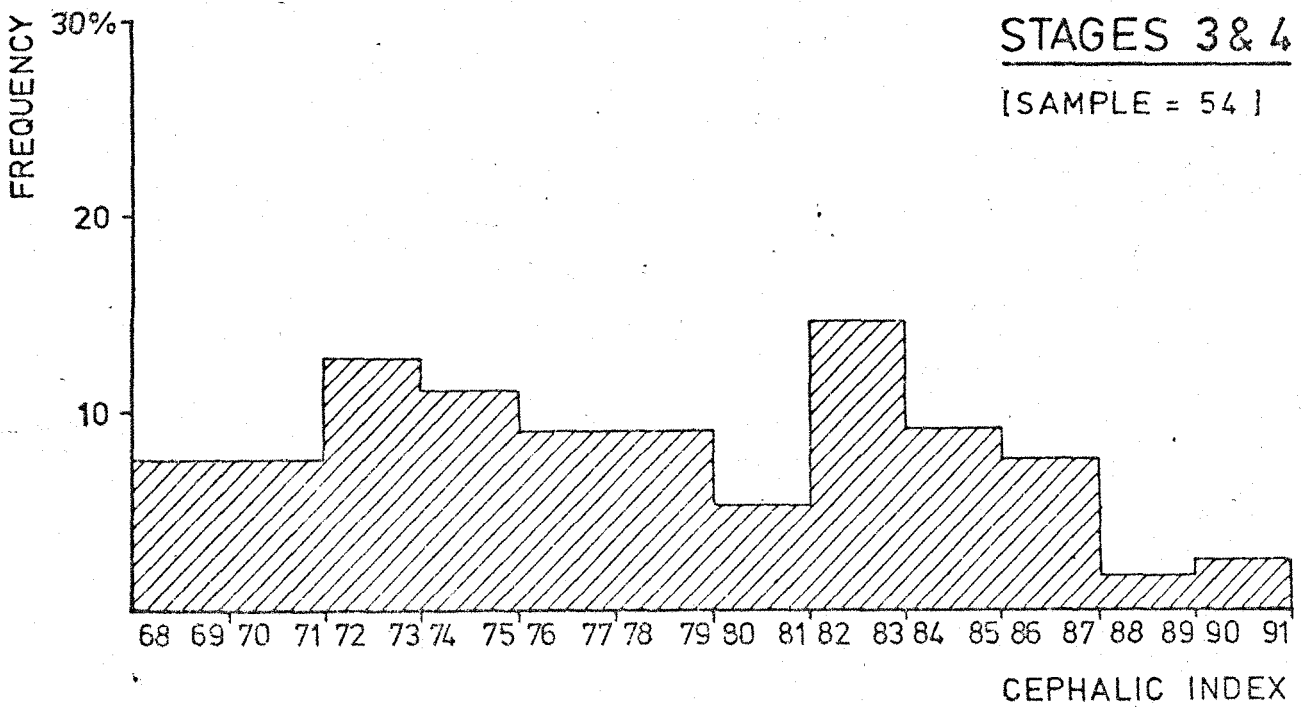
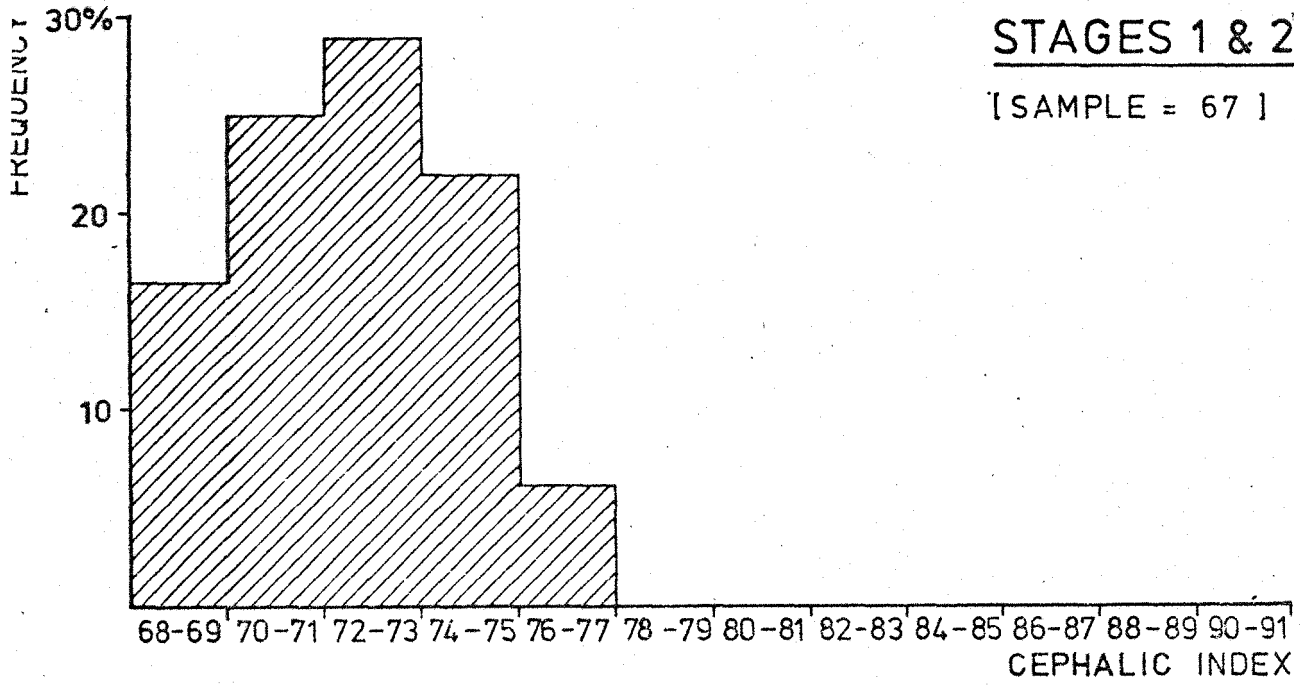
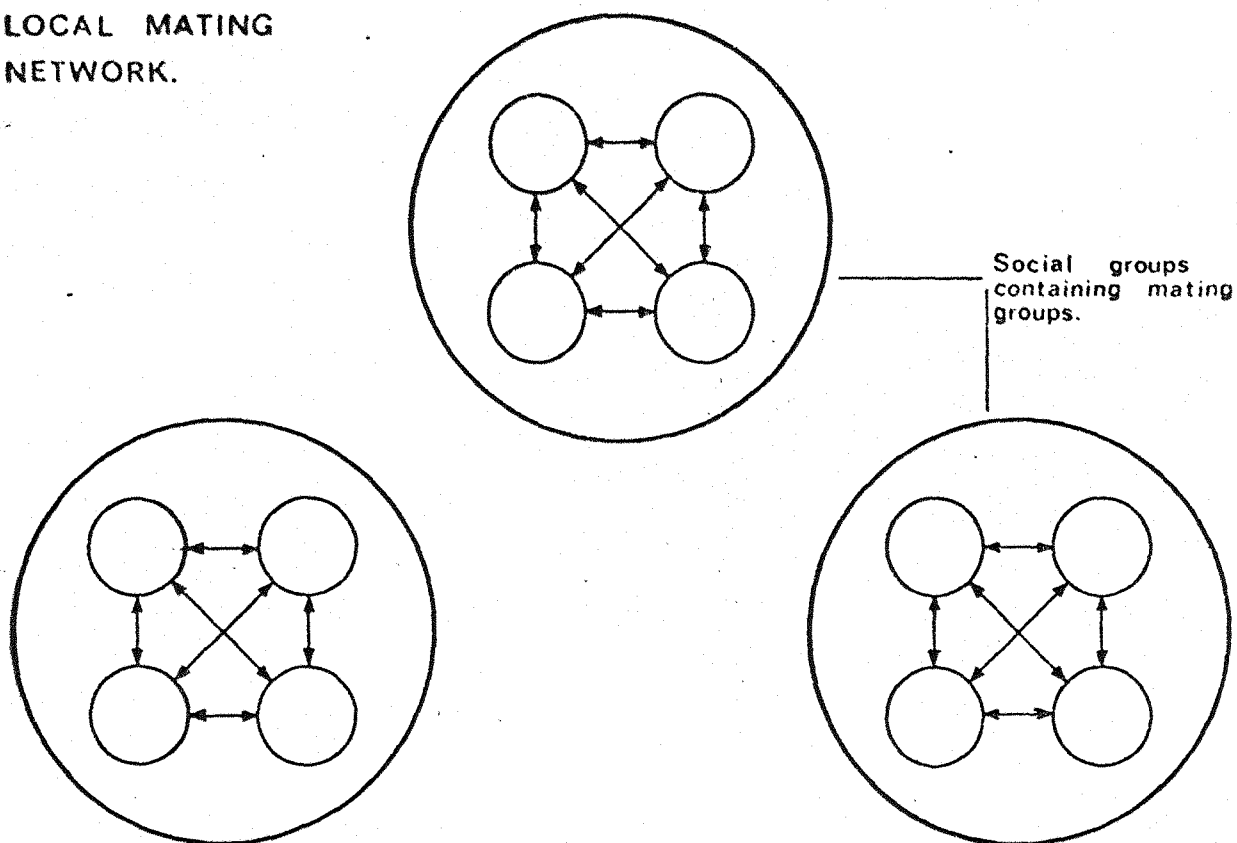


FIGURE 205. Frequency histograms showing the incidence of cephalic index for stage 1 and 2 and also stage 3 and 4 populations.

LOCAL MATING
NETWORK.



PANMIXIA MATING
NETWORK.

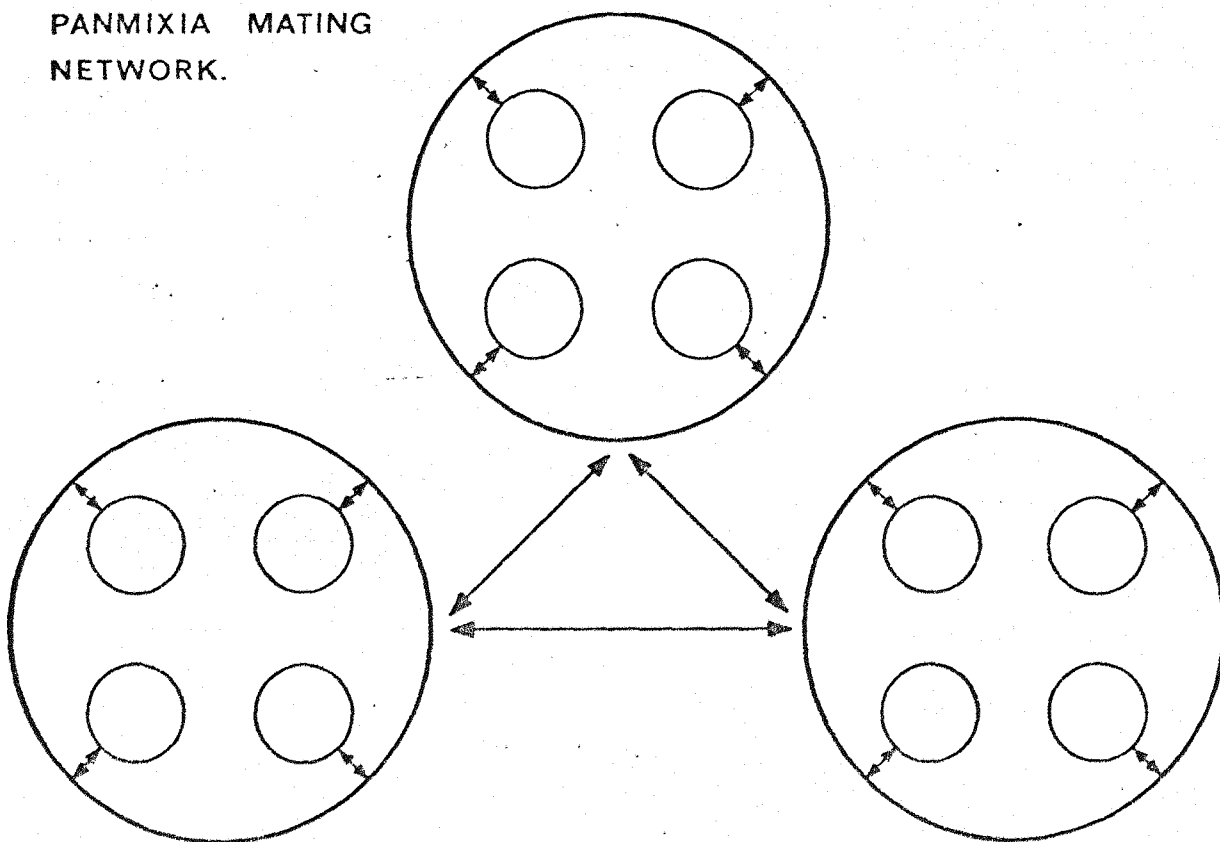


FIGURE 206. Diagram showing contrasting mating networks.

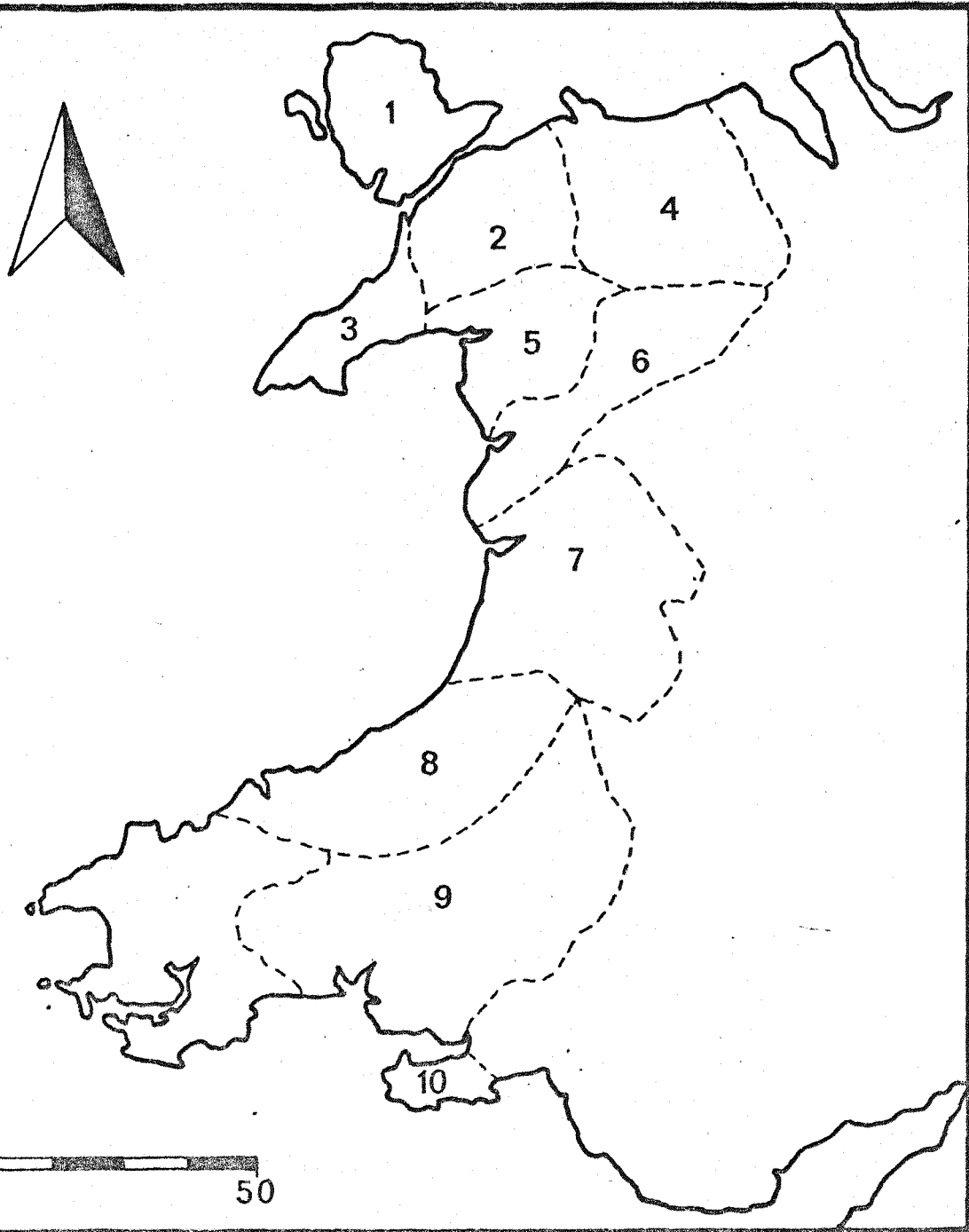


FIGURE 207. Map showing areas used in the study of Welsh population groupings.

- | | |
|-----------------------|---------------------|
| 1. Anglesey. | 6. Bala Cleft. |
| 2. Arfon. | 7. Plynluman. |
| 3. Llyn. | 8. Teifiside. |
| 4. Denbighshire. | 9. Carmarthenshire. |
| 5. Ardudwy & Eifioydd | 10. Gower. |

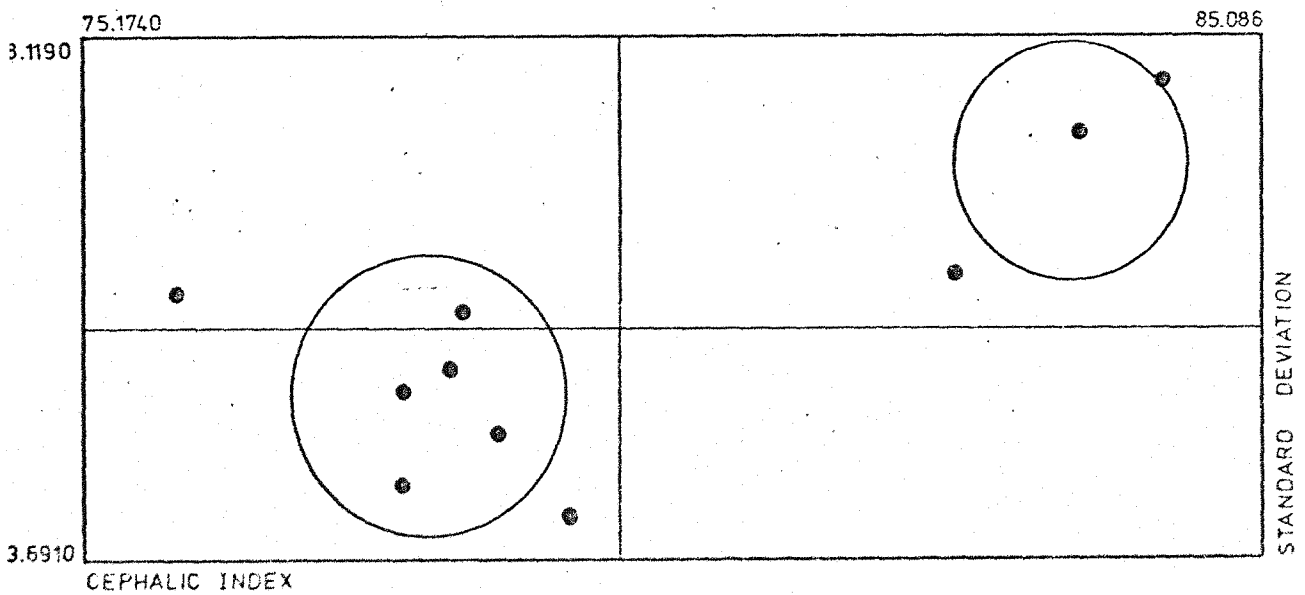
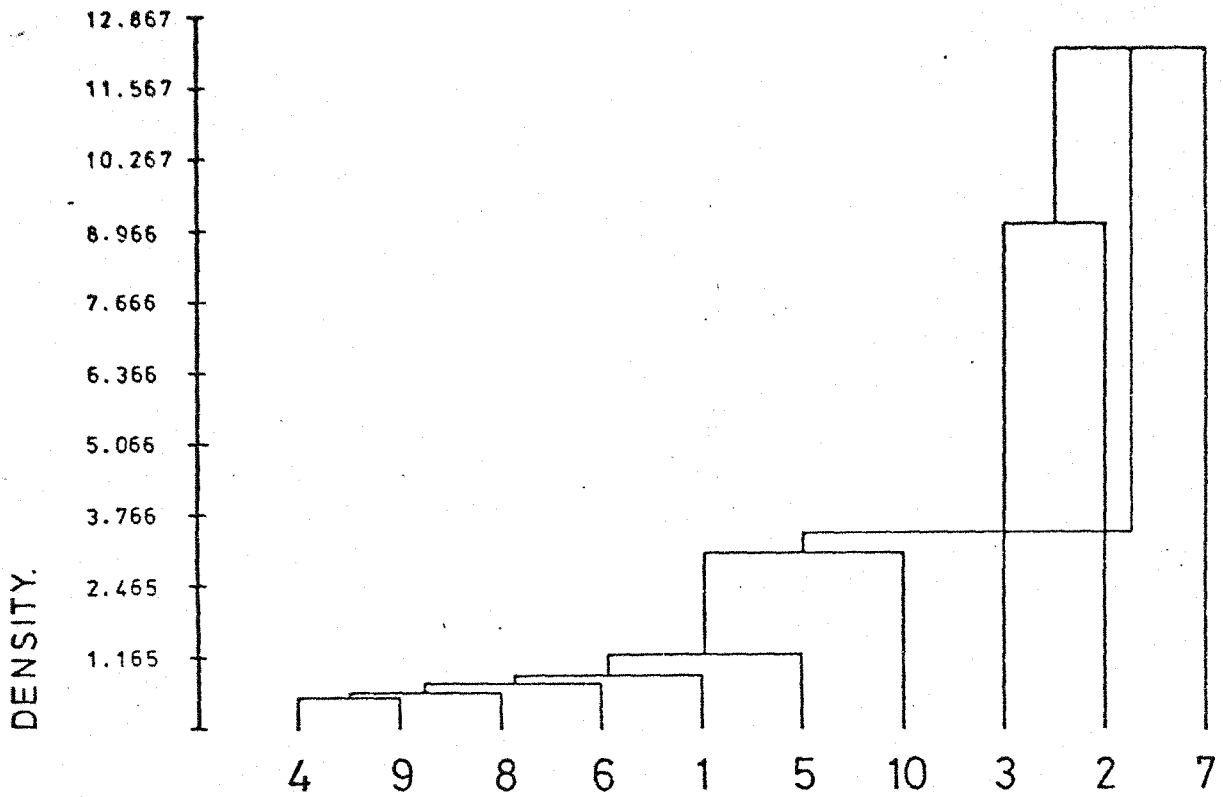


FIGURE 208. Dendrogram and scattergram resulting from analysis of Welsh cranial data.

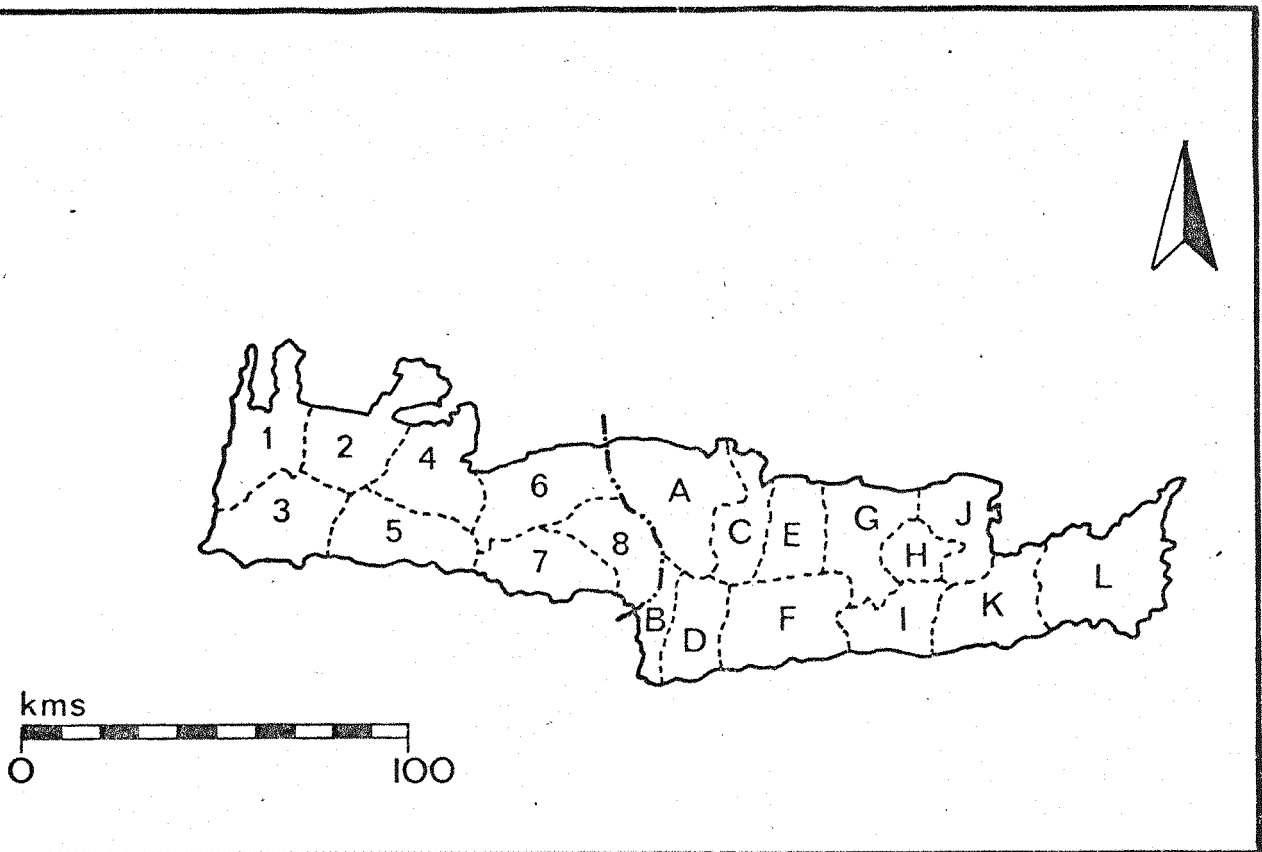


FIGURE 209. Map showing the areas used in the study of Cretan population groups.

Western Crete.

1. Kisamos.
2. Kidhonia.
3. Selinon.
4. Apohoronas.
5. Spakhia.
6. Rethimni.
7. Ayios Vasilios.
8. Amari.

Eastern Crete.

- A. Milopotamas.
- B. Piryiotissa.
- C. Malevizion.
- D. Kainourion.
- E. Temenos.
- F. Monofatsion.
- G. Pedhiadha.
- H. Lasithi.
- I. Viannos.
- J. Merabello.
- K. Ierapetra.
- L. Sitia.

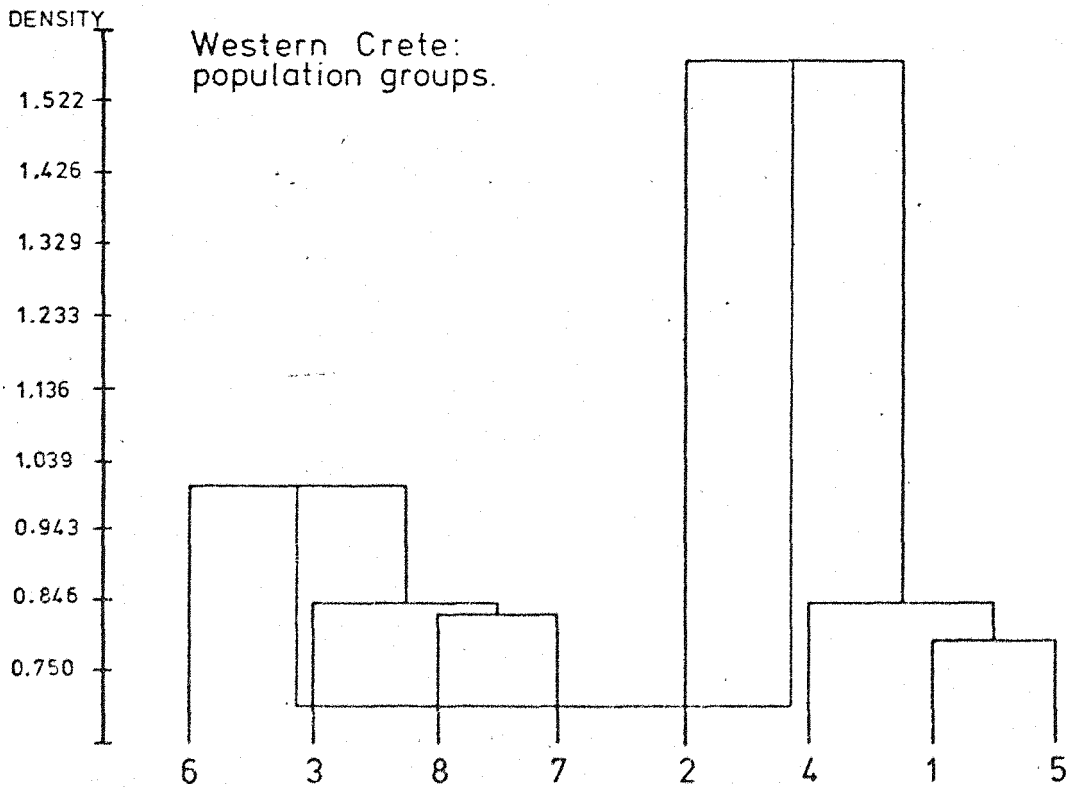
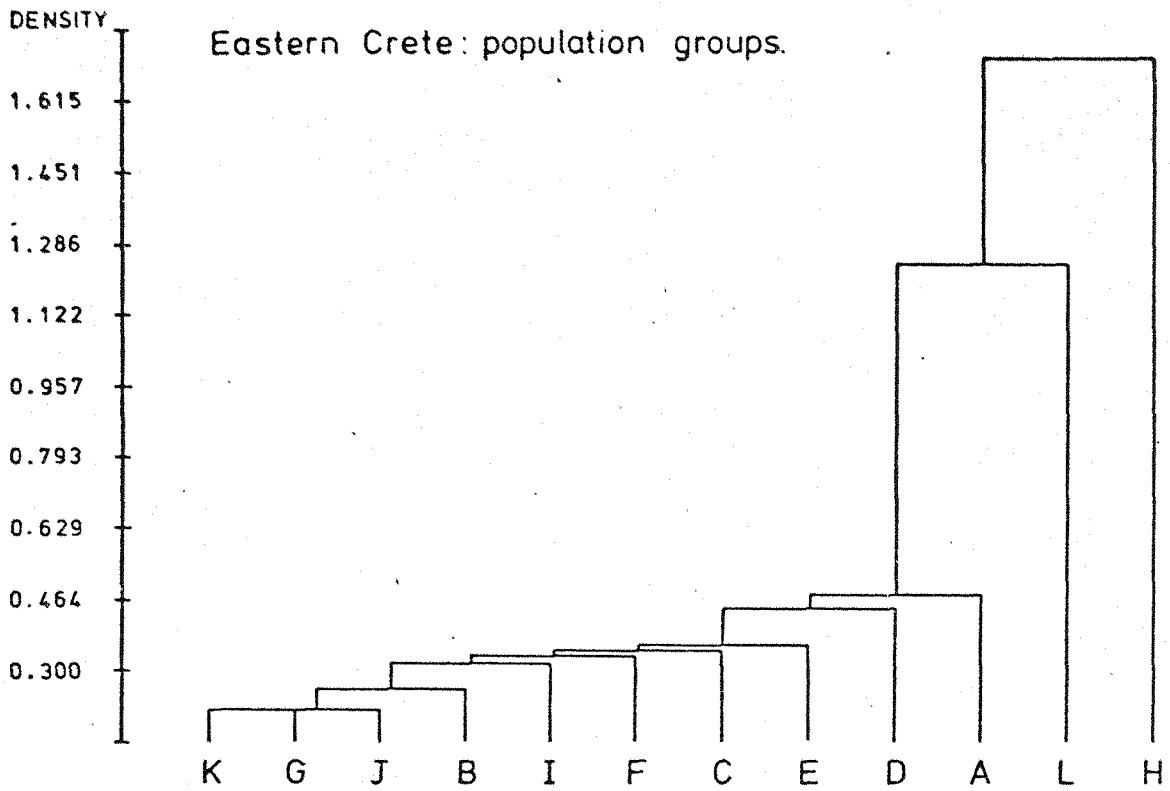
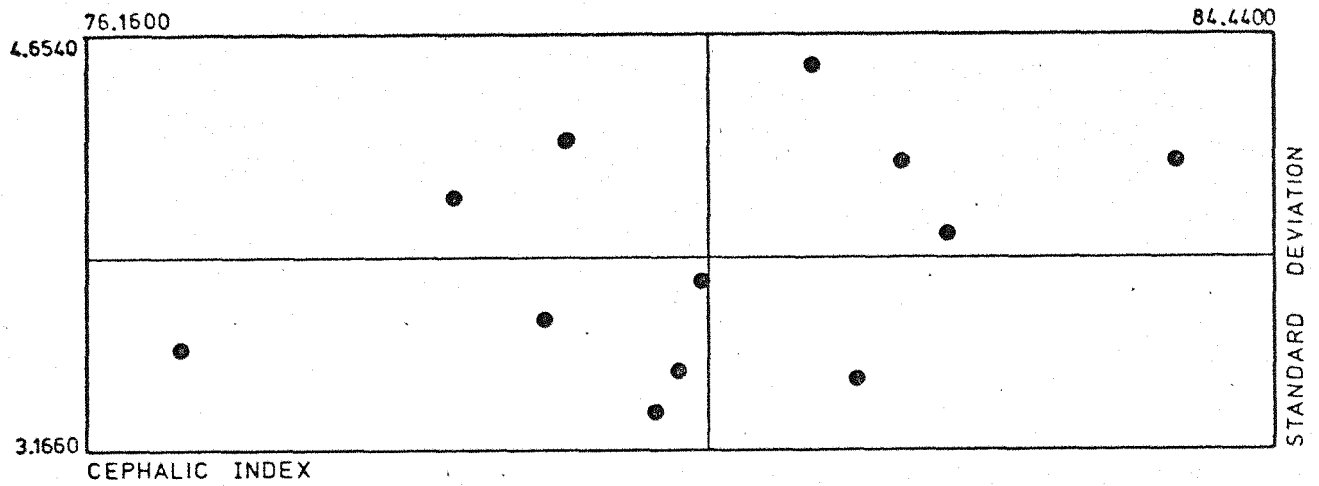


FIGURE 210. Dendrogram resulting from the analysis of Cretan cranial data.

Eastern Crete: population groups.



Western Crete: population groups.

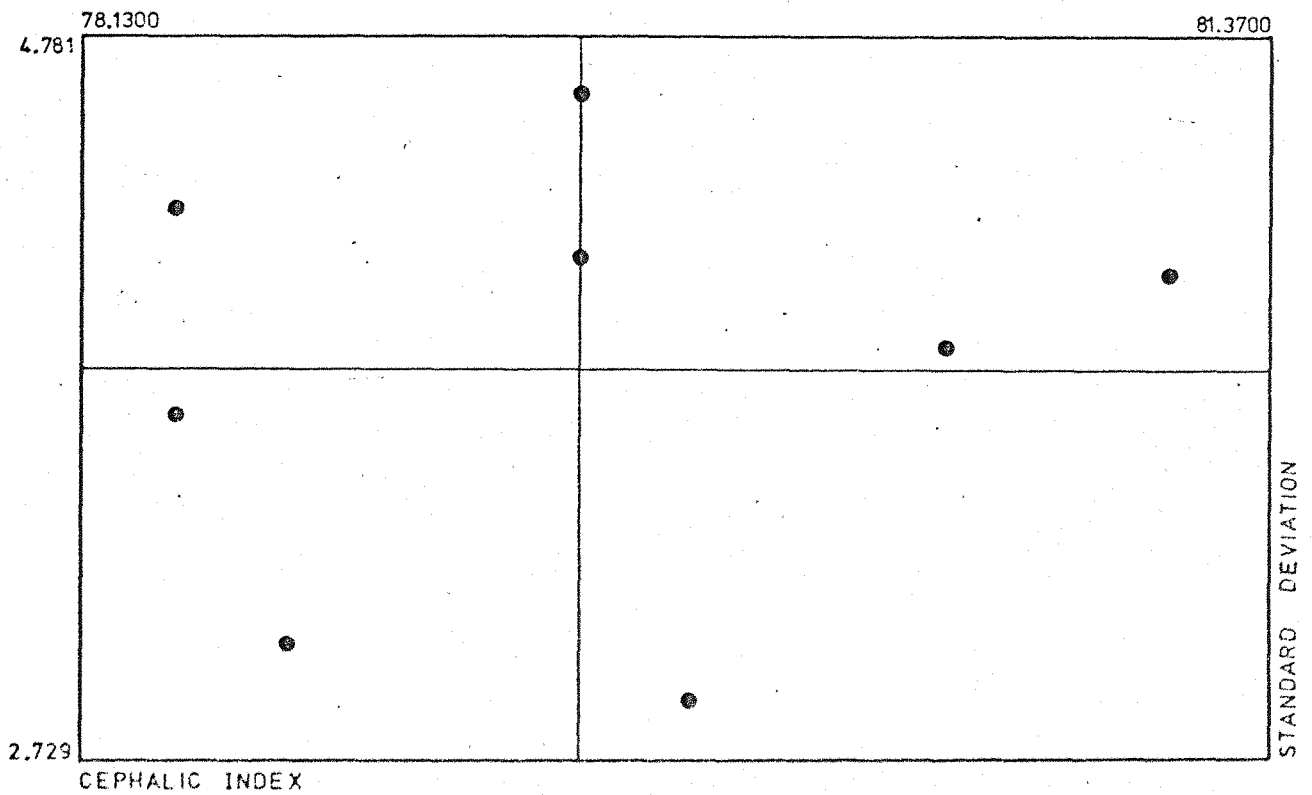


FIGURE 211. Scattergrams resulting from the analysis of Cretan cranial data.

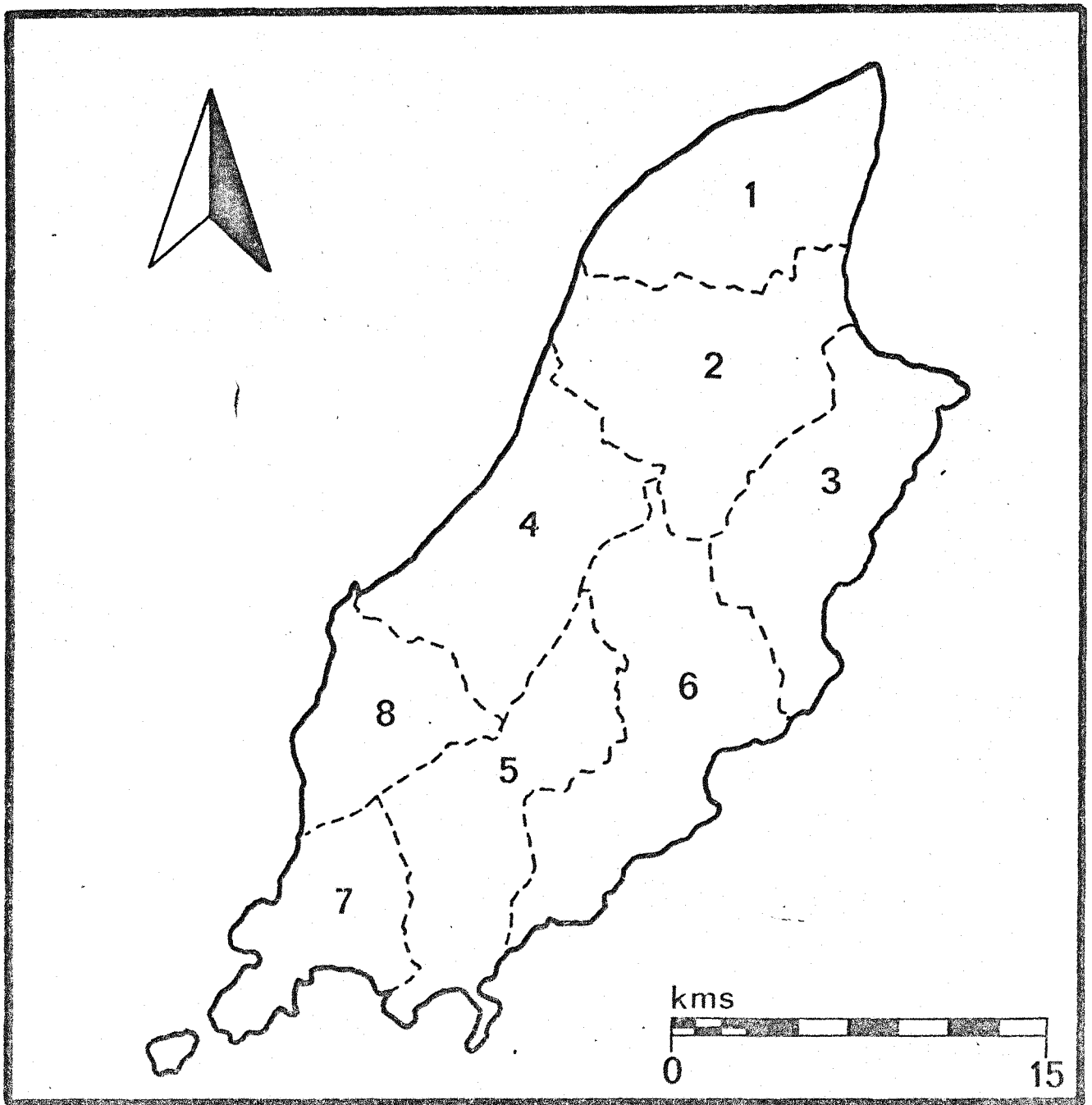
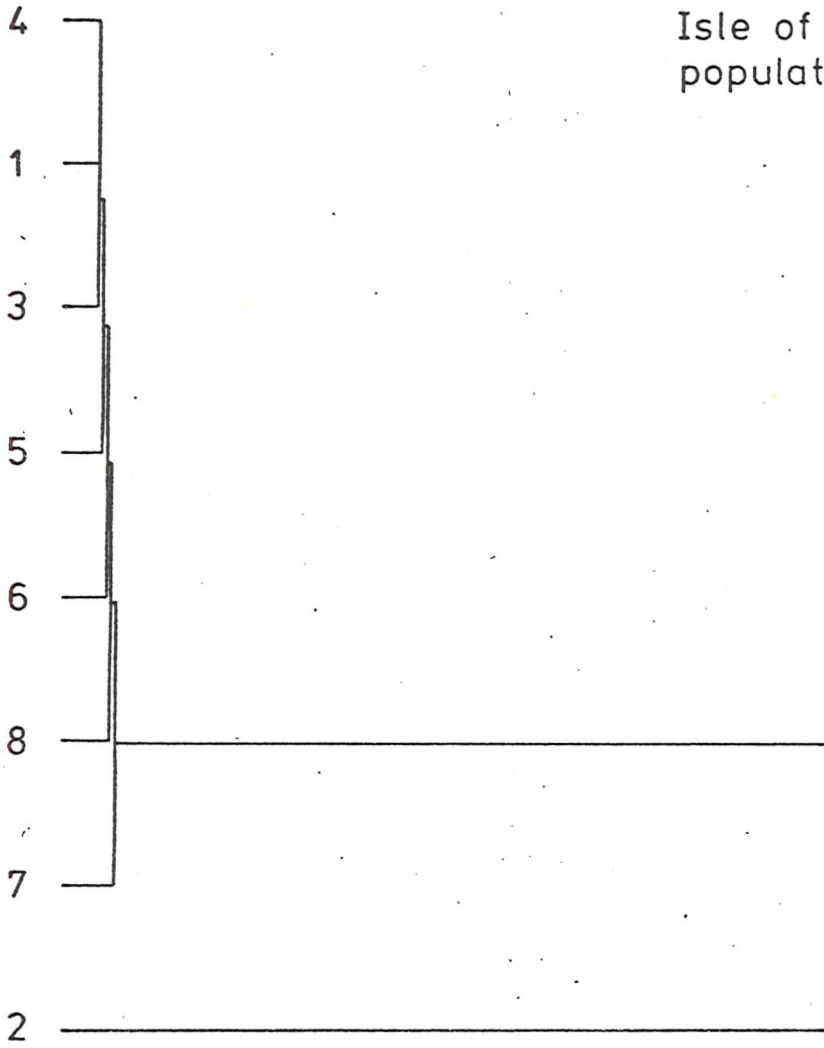
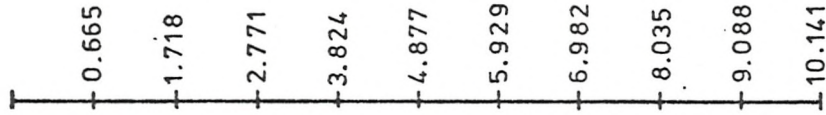


FIGURE 212. Map showing the areas used in the study of the Isle of Man Cranial data.

1. Andreas, Bride and Jurby
2. Ballaugh and Lezayre
3. Maughold and Lanan
4. Michael and German
5. Malew and Marown
6. Onchan, Braddan and Stanton
7. Rushen and Arbory
8. Patrick

Density.



Isle of Man:
population groups.

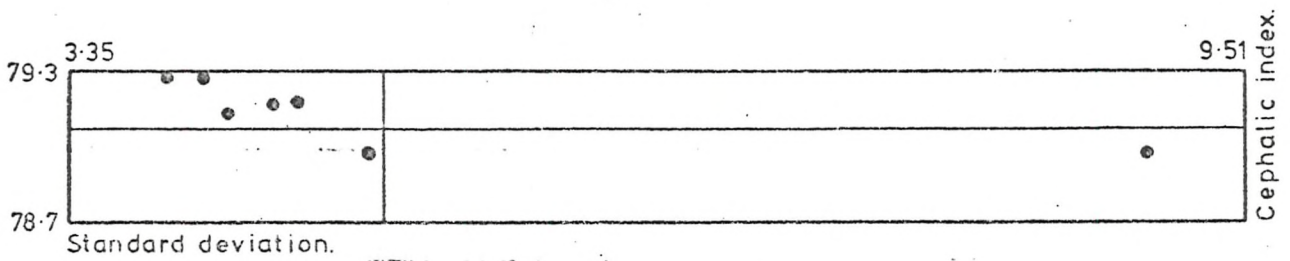


FIGURE 213. Dendrogram and scattergram resulting from analysis of the Isle of Man cranial data.

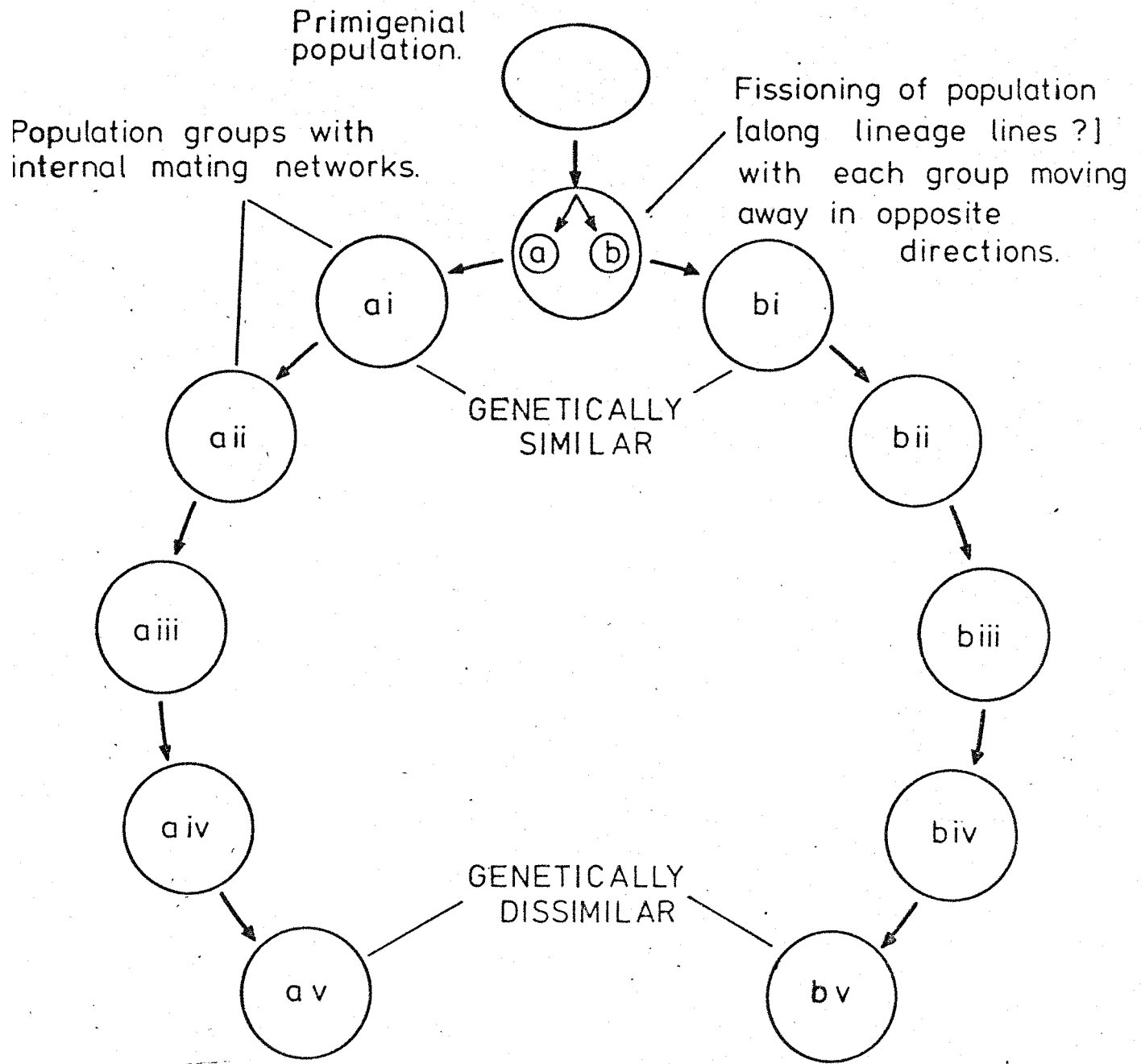


FIGURE 214. Diagrammatic portrayal of the operation of "ring-gene" movements.

TABLES

TABLE 1.

The abstraction of subsystems of society from the four-fold functional paradigm.

GENERAL THEORY OF ACTION	CONCEPTS WITH CONCRETE REFERENCE	SUBSYSTEMS OF ACTION	SUBSYSTEMS OF SOCIETY	ARCHAEOLOGICAL ACTIVITY SET SUBSYSTEMS
(A) ADAPTATION	Behavioural organism	Organismic subsystem	Economic subsystem	ECONOMIC SUBSISTENCE EXCHANGE
(G) GOAL ATTAINMENT	Personality	Personality subsystem	Political subsystem	POLITICAL
(I) INTEGRATION	Society	Social subsystem	Societal community subsystem	POPULATION
(L) PATTERN MAINTENANCE	Culture	Cultural subsystem	Socialisation subsystem	POLITICAL PROJECTIVE

TABLE 2.

Summary of recorded sites, monuments and findspots by county.

COUNTY	SITES & MONUMENTS		STRAY FINDS*		TOTAL	AREA*	OVERALL DENSITY **
	number	density	number	density			
Avon (AV)	57	0.042	103	0.076	160	1345	0.118
Clwyd (CL)	44	0.017	103	0.041	147	2476	0.059
Dyfed (DY)	188	0.032	217	0.037	405	5767	0.070
Glamorgan (GL)	63	0.028	103	0.045	166	2250	0.073
Gloucestershire (GLE)	140	0.052	185	0.069	325	2642	0.123
Gwent (GWT)	16	0.011	47	0.034	63	1376	0.045
Gwynedd (GWD)	142	0.034	220	0.054	362	4059	0.089
Hereford & Worc. (HW)	55	0.014	123	0.031	178	3926	0.045
Oxfordshire (OX)	80	0.083	69	0.071	149	962	0.154
Powys (PO)	69	0.013	134	0.026	203	5077	0.039
Shropshire (SH)	37	0.010	166	0.047	203	3490	0.058
Somerset (SO)	75	0.075	69	0.069	144	990	0.145
Wiltshire (WI)	142	0.113	112	0.089	254	1256	0.202
UNLOCATED	---	-----	11	-----	11	-----	-----
T O T A L S	1108	0.031 ⁱ	1664	0.046 ⁱ	2772	35616	0.077 ⁱ

* In square kilometres (KM²).

** Sites per KM².

i Calculated from relevant totals (ie. not summations).

TABLE 3.

Summary of ceramic assemblages available by county.

COUNTY	Sites with known ceramic associations.	Sites with single vessels only.	Sites with undistinctive pottery or poorly recorded associations.	Sites with pottery not able to be assessed.	Total number of sites with pottery.
Avon (AV)	3 (4)*	2	6	0	11
Clwyd (CL)	4 (4)	5	8	1	18
Dyfed (DY)	6 (6)	14	3	1	24
Glamorgan (GL)	4 (6)	16	5	0	25
Gloucestershire (GLE)	7 (8)	21	19	4	51
Gwent (GWT)	0 (0)	1	1	0	2
Gwynedd (GWD)	7 (7)	17	10	0	34
Hereford & Worc. (HW)	2 (2)	5	5	1	13
Oxfordshire (OX)	10 (10)	18	9	0	37
Powys (PO)	4 (5)	8	4	2	18
Shropshire (SH)	1 (2)	0	1	2	4
Somerset (SO)	4 (5)	9	9	1	23
Wiltshire (WI)	12 (15)	31	14	1	58
T O T A L S	64 (74)	147	94	13	318

* Figures in brackets indicate the total number of associated groups from the sites in the left hand column.

TABLE 4

Unordered contingency table of percentile incidence indices of neolithic ceramics.

SITES	TYPES																			
	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U
AV 75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
AV 75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	80	0
AV 117	40	20	0	0	20	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
AV 118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	60	0	0
CL 31	22	0	0	0	0	0	0	11	34	22	11	0	0	0	0	0	0	0	0	0
CL 53	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	50	0	0	0	0
CL 95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
CL 108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
DY 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	0
DY 28	0	0	0	50	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0
DY 158	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
DY 326	10	0	8	8	5	10	25	10	12	12	0	0	0	0	0	0	0	0	0	0
DY 365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	42	50	0
DY 366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
GL 96	50	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0
GL 136	0	0	0	0	0	0	0	0	0	0	0	0	50	10	0	0	30	10	0	0
GL 136	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
GL 136	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
GL 139	20	0	20	0	40	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
GL 149	80	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0
GLE 47	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
GLE 57	0	0	0	0	0	0	0	0	0	0	0	0	40	60	0	0	0	0	0	0
GLE 141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	75	0
GLE 150	0	0	0	0	0	34	0	0	0	0	0	66	0	0	0	0	0	0	0	0
GLE 177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
GLE 177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	70	0
GLE 178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
GLE 200	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
GWD 67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
GWD 98	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
GWD 150	0	0	0	0	0	0	80	20	0	0	0	0	0	0	0	0	0	0	0	0
GWD 187	0	0	0	25	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0
GWD 200	0	0	0	25	0	0	0	0	0	0	25	0	50	0	0	0	0	0	0	0
GWD 220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
GWD 286	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
HW 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	34	0	0	0	0
HW 76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0
OX 2	37	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0
OX 28	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
OX 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
OX 33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	60	0
OX 34	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
OX 36	0	0	0	0	0	0	0	0	0	0	0	0	67	0	0	0	33	0	0	0
OX 63	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0
OX 64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	50
OX 128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
OX 129	0	0	0	0	0	0	0	0	0	0	0	75	25	0	0	0	0	0	0	0
PO 39	60	0	0	10	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
PO 39	0	0	0	0	50	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0
PO 88	67	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0
PO 166	50	0	10	0	0	0	0	0	20	20	0	0	0	0	0	0	0	0	0	0
PO 183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	20	0	0	0	0
SH 32	0	0	60	0	0	0	0	20	0	0	20	0	0	0	0	0	0	0	0	0
SH 32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0
SO 14	15	0	40	15	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0
SO 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
SO 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
SO 60	0	0	0	33	0	0	67	0	0	0	0	0	0	0	0	0	0	0	0	0
SO 98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WI 7	20	0	20	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WI 11	0	20	30	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WI 11	34	7	19	5	3	6	1	3	3	5	10	4	0	0	0	0	0	0	0	0
WI 11	0	0	0	0	0	0	0	0	0	0	0	0	11	7	10	0	12	0	60	0
WI 16	37	0	25	0	0	0	0	0	25	0	13	0	0	0	0	0	0	0	0	0
WI 16	0	0	0	0	0	0	0	0	0	0	10	19	19	13	10	5	5	19	0	0
WI 17	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0
WI 18	0	12	13	0	0	0	25	0	25	0	0	0	0	0	0	0	0	0	25	0
WI 20	0	0	0	0	0	0	0	0	0	0	0	0	0	25	50	0	25	0	0	0
WI 24	33	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	0
WI 25	29	14	29	0	0	14	0	0	14	0	0	0	0	0	0	0	0	0	0	0
WI 74	20	0	60	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
WI 87	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
WI 226	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0
WI 250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0

TABLE 5A.

Key to numbering of assemblages on Figure 30.

Number.	Site.	Number.	Site.	Number.	Site.
1	WI 17	26	WI 11 (c)	51	DY 365
2	GWD 98	27	WI 25	52	PO 166
3	GLE 266	28	SO 14 (d)	53	SO 14 (i)
4	DY 158	29	DY 326	54	CL 108
5	GWD 150	30	SH 32 (e)	55	CL 98
6	GWD 187	31	WI 87	56	SO 98
7	SO 60	32	GWD 200	57	OX 36
8	OX 2	33	GL 136	58	GL 136 (j)
9	PO 88	34	WI 16 (f)	59	GL 136 (k)
10	PO 39	35	OX 33	60	GLE 47
11	GL 149	36	DY 27	61	OX 63
12	GL 96	37	HW 20	62	OX 129
13	PO 166	38	WI 18	63	GLE 157
14	WI 74	39	GLE 177	64	OX 28
15	CL 31	40	GLE 141	65	OX 32
16	WI 16 (a)	41	WI 11 (g)	66	WI 226
17	WI 24	42	AV 75	67	WI 20
18	CL 53	43	AV 118	68	HW 20
19	AV 117	44	GWD 67	69	PO 183
20	DY 28	45	HW 76	70	OX 29
21	PO 39	46	OX 64	71	GWD 220
22	GLE 150	47	SH 32 (h)	72	GLE 117
23	WI 11 (b)	48	OX 128	73	GLE 178
24	GL 139	49	GWD 286	74	AV 75
25	WI 7	50	DY 366		

- (a) Pre-filling contexts
- (b) Lower ditch fill
- (c) Pre-enclosure phase
- (d) Layer IV (neolithic floor)
- (e) Neolithic pit
- (f) Tomb filling context

- (g) Upper ditch fill
- (h) Beaker contexts
- (i) Layer III (Beaker floor)
- (j) Lower surface
- (k) Upper surface (some residual ?)

TABLE 5B.

Key to symbols used on Figure 30.

- Circles - sites with > 50% pottery types A-F and H-K.
- Squares - sites with > 50% pottery type G.
- Triangles - sites with > 50% pottery of types L-N.
- Hexagons - sites with > 50% pottery type O.
- Lozenges - sites with > 50% pottery types P-Q.
- Ovals - sites with > 50% pottery types R-U.

TABLE 6.

Activity types comprising subsistence activity sets.

ACTIVITY SETS	PRIMARY ACTIVITIES	SECONDARY ACTIVITIES	TERTIARY ACTIVITIES
AGRICULTURE	harvesting collecting	sowing weeding field clearance ploughing soil preparation	threshing grinding winnowing storage
ANIMAL HUSBANDRY	animal slaughter milking bleeding	animal management fodder collection	butchery curing storage skin cleaning
HUNTING & GATHERING	trapping collecting animal slaughter	(no secondary activities)	butchery storage skin cleaning curing
MARINE RESOURCE EXPLOITATION	fishing shell fish collecting	?sailing	storage extraction of meat drying smoking gutting

TABLE 7.

Subsistence activities and equipment requirements.

ACTIVITIES	REQUIREMENTS*
Animal hunting	weapons, traps
Animal slaughter	weapons/tools
Collecting plantstuffs	containers, knives, cutting tools
Harvesting	cutting tools, sickles, containers
Milking/bleeding	containers, knives
Fishing	hooks, nets, traps, weights, floats, lines, fish throttles
Marine shell gathering	scrapers/scoops
Trapping	traps, snares
Butchery	choppers, knives, levers
Fodder collection	knives, axes, containers
Animal management	pens, fences, folds, droves, hurdles
Soil clearance	axes, digging sticks, spades
Soil preparation	digging sticks, hoes, ards
Sowing	containers
Weeding	hoes, digging sticks, spade
Primary processing (animal)	skin cleaners, hair removers
Primary processing (plant)	flails, querns, rubbers, pounders
Primary processing (marine shells)	pickers, pounders
Storage	silo pits, barns, jars, racks
Preserving	racks, smoking pits

* not all necessary requirements.

TABLE 8.

Archaeological evidence for subsistence activities.

EVIDENCE TYPE	EXAMPLES*
ARTIFACTS (ie. equipment requirements)	sickle blades digging sticks axes arrowheads archery equipment fishing weights fish throttles antler combs scrapers bone chisels knives querns rubbers containers
LANDFORMS	pits shellfish middens preserved soils ard marks
PRODUCE RESIDUES	animal bones cereal remains cereal impressions plant residues marine resource residues
ENVIRONMENTAL INDICATORS	pollen spectra molluscan sequences soil profiles

* not an exhaustive selection

TABLE 9.

Species of plant remains from neolithic contexts.
(After A.G.Smith 1981)

I Cereal crops.

1. Emmer wheat*	Triticum dicoccum
2. Spelt wheat (?)	Triticum spelta
3. Bread wheat *	Triticum aestivum
4. Club wheat	Triticum aestivo compactum
5. Einkorn wheat*	Triticum monococcum
6. Naked 6 row barley*	Hordeum vulgare var. nudum
7. Hulled 6 row barley*	Hordeum vulgare
8. Wild oats	Avena sp.

II Other crops/fruits.

9. Flax / linseed*	Linum usitissimum
10. Celtic bean *	Vicia faba var minor
11. Blackberry	Rubus fruticosus
12. Barberry	Berberis vulgaris
13. Sloe	Prunus spinosa
14. Crab apple*	Pyrus malus
15. Haws	Crataegus oxyacantha
16. Acorns	(Quercus)
17. Hazel nuts*	(Corylus avellana)

* identified at sites within the study area.

Note: Species known from pollen analysis only not included.

TABLE 10.

Biostratigraphic sub-division of the Flandrian period in England and Wales.

Blytt-Sernander divisions ⁽¹⁾	Godwin zones ⁽²⁾	Characteristics	Dates b.p.
Sub-Atlantic	VIII		
Sub-Boreal	VIIb	oak and alder	- 5000
Atlantic	VIIa	oak, elm and alder	5000 - 7000
	VIc	pine, hazel and elm	7000 - 8000
	VIIb		
Boreal	VIa	hazel and pine	8000 - 9000
	V	birch, pine and hazel	9000 - 10000
Pre-Boreal	IV	birch, pine and juniper	10000-

(1) after Blytt (1876) and Sernander (1908)

(2) after Godwin (1975)

TABLE 11.

Incidence of primary clearance in central west Wales by altitude and pollen zone.

	COASTLANDS	INTERMEDIATE	UPLANDS
<u>c.</u> 3500 - 3000 bc. VIIa - VIIb boundary	2	1	1
<u>c.</u> 3000 - 2000 bc. early VIIb	3	4	3
<u>c.</u> 2000 - 1500 bc. later VIIb	0	0	1
<u>c.</u> 1500 - bc. zone VIII	0	0	1
T O T A L S	5	6	6

(number of recorded instances)

TABLE 12.

Evidence of land use types below monuments in the Avebury area *.

	WOODLAND	GRASSLAND	ARABLE
3500 - 3000 bc	10 (?)	1	0
3000 - 2500 bc	5	4	3
2500 - 2000 bc	2	6	3
2000 - 1500 bc	0	11	1

* Total 16 sites - but some observations for some periods not possible
(sum by rows)

TABLE 13.

Land use types present immediately prior to site use in the Avebury area*

	WOODLAND	GRASSLAND	ARABLE
3500 - 3000 bc	-	-	-
3000 - 2500 bc	3	7	-
2500 - 2000 bc	1	1	-
2000 - 1500 bc	-	3	-

Sites included:

South Street long barrow
Beckhampton Road long barrow
Horslip long barrow
Windmill Hill (pre enclosure)
Windmill Hill enclosure
Knap Hill causewayed enclosure
West Kennet long barrow
Avebury Henge

Marden henge monument
Hemp Knoll settlement
Hemp Knoll beaker barrow
G55 round barrow settlement
G55 round barrow
Cherhill settlement
Silbury Hill
Marden pre-henge settlement

TABLE 14.

Species of animals noted in neolithic contexts.

I "Domesticated"

1.	Cattle	<i>Bos taurus</i> L.
2.	Sheep	<i>Ovis aries</i> L.
3.	Goat	<i>Capra hircus</i> L.
4.	Pig	<i>Sus scrofa</i> .

II "Wild"

5.	Aurochs	<i>Bos primigenius</i>
6.	Red deer	<i>Cervus elaphus</i>
7.	Roe deer	<i>Capreolus capreolus</i>
8.	Fallow deer	<i>Dama dama</i>
9.	Horse	<i>Equus</i> sp.
10.	Boar	<i>Sus scrofa</i>
11.	Fox	<i>Vulpes vulpes</i> L.
12.	Wolf	<i>Lupus</i>
13.	Dog	<i>Canis familiaris</i> L.
14.	Hare	<i>Lepus timidus</i>
15.	Badger	<i>Meles meles</i>
16.	Beaver	<i>Castor fiber</i>
17.	Pole cat	<i>Putorius putorius</i> L.
18.	Pine martin	<i>Martes martes</i> L.
19.	Cat	<i>Felis sylvestris</i> L.
20.	Red squirrel	<i>Sciurus vulgaris</i>
21.	Brown bear	<i>Ursus arctos</i>
22.	Wood mouse	<i>Apodemus sylvaticus</i>
23.	Shrew	<i>Sorex araneus castaneus</i>
24.	Vole	<i>Microtus agrestis hirtus</i>
25.	Mole	<i>Talpa europaei</i>
26.	Bat	<i>Myotis</i>
27.	Frog	<i>Rana</i> sp.
28.	Toad	<i>Bufo vulgaris</i>
29.	Grass snake	<i>Tropidonotus natrix</i>

III Birds

30.	Thrush	<i>Turdidae</i>
31.	Starling	<i>Sturnus vulgaris</i>
32.	Blackbird	<i>Turdus merula</i>
33.	Phalerope	
34.	Jackdaw	<i>Corvus monedula</i>
35.	Fowl	
36.	Chaffinch	<i>Fringilla coelebs</i>

TABLE 15.

Percentage of sites with vesicular pottery among the ceramic assemblages.

ECOZONE	STAGE 1	STAGE 2	STAGE 3	STAGE 4
1	<u>c.</u> 30%	<u>c.</u> 35%	<u>c.</u> 0%	<u>c.</u> 0%
2	<u>c.</u> 41%	<u>c.</u> 40%	<u>c.</u> 0%	<u>c.</u> 0%
3	<u>c.</u> 85%	<u>c.</u> 50%	<u>c.</u> 0%	<u>c.</u> 0%

Note: % of studied sites with vesicular wares in assemblage. See Appendix XV for details of analytical procedures used.

TABLE 16.

Species of marine resources represented in neolithic contexts.

I Shellfish

1. Cockle	Cardium sp.
2. Carpet shell	Veneridae sp.
3. Limpet	Patella vulgata
4. Mussel	Mytilus edulis
5. Scallop	Chlamys sp. (Iceland clam)
6. Oyster	Ostrea edulis
7. Nun cowrie	Trivia monachu
8. Winkle	Litorina sp.
9. Whelk	Buccinum undatum
10. Dog whelk	Purpura lapillus

II Fish

11. Thornback	Raia clavata
12. Salmon	Salmo salar
13. Eel	Anguillae
14. Wrasse	Labridae
15. Whiting	Gadus merlangus

TABLE 17.

Archaeological evidence for economic activity execution.

ACTIVITIES	PRODUCTION EQUIPMENT	LANDFORMS / PRODUCTION WASTE	RAW MATERIAL SOURCES	ENVIRONMENTAL INDICATORS	PRODUCTS (* includes primary products)
POTTING	smoothers decorative aids firing device spades containers	wasters kiln waste clay in store	clay pits rock outcrops river banks	modification of topography	pots* spoons beads weights*
STONEWORKING	hammer stones anvils mauls grindstones drills	chipping waste rejected tools firecracking	quarries surface outcrops	modification of topography	tools* weapons lamps querns rubbers moulds* ornaments figurines plaques discs
WOODWORKING	axes wedges adzes chisels shaver	wood chips off-cuts	woodland re-used wood coppices	specific exploitation	boats trackways containers figurines houses hurdles pins tools*
LEATHERWORKING	scrapers knives smoothers awls	off-cuts	animal hides	particularised butchery	containers clothes shelters
METALWORKING	hammers moulds crucibles hearths grindstones	slag piles burnt waste	ore quarries river beds (charcoal)	modification of topography	tools* ornaments pins
BONEWORKING	polishers saws gouges drill knives	off-cuts	dead animals surface finds	specific exploitation	tools* combs pins ornaments
CIVIL ENGINEERING	spades picks levers baskets	banks ditches walls spoil heaps constructions	wood stone soil	modification of topography	camps barrows hengens circles cursus enclosures tracks mounds
TEXTILE MANUFACTURE	looms spinning whorls knives	trimmings	animals plants	specific exploitation	clothes bags cloth
BASKETRY	knives axes	trimmings	plants	specific exploitation	containers

TABLE 18.

Classification of tempering materials used in neolithic ceramics.

CLASS	MATERIAL	LIMITATIONS/ADVANTAGES
HARD ROCKS	Flint / chert Quart / quartzite Altered sandstone Miscellaneous igneous & metamorphic rocks Calcite Sand / fine crushed rock	capacity to withstand heat capacity to withstand heat capacity to withstand heat capacity to withstand heat capacity to withstand heat capacity to withstand heat
SOFT ROCKS	Limestone Fossil shell Chalk Sandstone	not heat resistant / porous not heat resistant / porous not heat resistant / porous porous
ORGANIC	Chaff Dung Charcoal	porous porous porous
OTHER	Grog	porous / heat resistant

TABLE 19.

Incidence of ceramic container shapes by assemblage.

TYPE SITE	A			B			C			D			E			F			G			H		
	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$
CL 31		M			M	M							M	M										
DY 326	M	M+g			M	M			L		M		M	M										
GWD 187			M+g		M																			
PO 39		M+g	M+g											M										
GLE 27	M	M	S+g	M	M																			
GLE 125	M+g	M+g	M+g		M									M										
PO 166		M			M				M				M	M										
WI 11	M	M+g	M+g		M	S	M			M	M	S	M	M	S									
WI 74	S	S	S		M									M										
GLE 57											M											M		
PO 183																M			M	M+h				
WI 11																		M			M+g	M		
WI 16	S+g	S+g			S+g				M+g M		M	S						M	M	M	M+g M+g	M M		
AV 75																				M	M	M	M	
SO 18	M																	M		M+g	M			

L = Large vessels (size class 3).

M= Medium sized vessels (size class 2).

S = Small sized vessels (size class 1).

+ = Vessel shape indicated by the column plus the shape indicated by the small letter added.

TABLE 20.

Finishing procedures on a sample of 11 vessels from the fill of F4 at Peak Camp (GLE 97).

FINISHING PROCESS	NUMBER		PERCENTAGE	
	inside	outside	inside	outside
Simple smoothing	6	5	54 %	45 %
Wet hand smoothing	4	4	36 %	36 %
Burnishing	1	2	10 %	19 %
T O T A L S	11	11	100 %	100 %

TABLE 21.

Decorative components in selected pottery assemblages.

ASSEMBLAGE	FRACTION DECORATED (%)
<u>Early neolithic</u>	
CL 31	0%
DY 326	< 1%
GLE 308	0%
GWD 187	0%
OX 2	< 1%
PO 39	0%
WI 11	0%*
<u>Middle neolithic</u>	
GLE 97	< 1%
GLE 125	59%
WI 7	< 1%
WI 11	50% *
WI 74	10%
<u>Late neolithic</u>	
GLE 57	100%
GWD 130	c. 60%
WI 16	c. 98%
WI 100	100% *
<u>Beaker</u>	
DY 365	55%
GL 66	100%
GWD 286	c. 70%
OX 33	92%
SO 18	100%

* assessed on the basis of published details only.

TABLE 22.

Firing atmosphere of middle neolithic and beaker assemblages.

FIRING CONDITIONS *	PEAK CAMP (GLE 97)	STACKPOLE WARREN (DY 365) Beaker only
R R R	27%	5%
R R O	---	---
R O O	---	---
O O O	18%	40%
O R R	55%	23%
O O R	---	14%
O R O	---	18%

* Condition: The vessel wall is divided into three sectors, the outer (left hand letter), the core (centre letter) and the inner (right hand letter). The conditions under which each of these three sectors was fired were noted and coded as three-letter sets representing all possible conditions. R indicates reducing conditions; O indicates oxidising conditions.

TABLE 23A.

Estimated minimum number of vessels in the blocking contexts and chamber contexts of chambered tombs.

PERIOD	SITE	NUMBER OF VESSELS
EARLIER TOMBS	GLE 51 West Tump	1
	PO 39 Gwernvale	3
	PO 159 Pipton	0
	PO 169 Pen-y-Wrylod II	2
	WI 129 Lanhill	3
	WI 169 Luckington	3
	GL 149 Tinkinswood	6+
LATER TOMBS	GLE 125 Nympsfield	17+
	GLE 266 Notgrove	12+
	GWD 200 Pant-y-Saer	6+
	PO 166 Ty Isaf	13
	WI 16 West Kennet	36+

TABLE 23B.

Percentage of graves containing beaker vessels in beaker cemeteries.

SITE	% OF GRAVES CONTAINING BEAKERS
OX 27 Tolley's Pit site 2	41 %
OX 64 Foxley Farm	48 %

TABLE 24.

Stone types exploited within the study area.

STONE TYPE	AVAILABILITY*	EVIDENCE OF EXTRACTION ?
Flint (nodule type)	restricted	yes
Flint (pebble type)	widespread	-
Chert	widespread	-
Limestone (various types)	widespread	-
Sandstone (various types)	widespread	-
Sarsen	widespread	-
Chalk	widespread	-
Dolerite	widespread	-
Tuff	widespread	-
Rhyolite	widespread	-
Slate	widespread	-
Schist	widespread	-
Quartzite	widespread	-
Glauconitic quartzite	widespread	-
Metamorphosed shale	restricted	yes
Augite granophyre	restricted	yes
Picrite	restricted	yes
Spotted dolerite	restricted	-
Granodiorite	restricted	-
Quartz dolerite	restricted	-
Silicified tuff	restricted	-
other Greenstones	restricted	-

* Restricted = found only in one outcrop or particular geological strata
Widespread = available over wide areas (2 KM^2 +) or in many separate places.

TABLE 25.

Stoneworking techniques and their use through the neolithic.

TECHNIQUE	STAGE 1	STAGE 2	STAGE 3	STAGE 4
Percussion flaking	C	C	C	C
Pressure flaking	M	M	C	C
Scale flaking	S	S	M	C
Ripple flaking	A ?	A ?	S	S
Grinding/polishing	M	M	C	C
Pecking	A ?	S	M	C
Drilling	S	S	S	M
Graving	S	S	S	S

A = Absent ie. not attested.

S = Scarce ie. only used in making one or two artifact types.

M = Moderate ie. used in making 2-4 artifact types.

C = Common ie. used in making more than 4 artifact types.

TABLE 26.

Stonework products classified by generalised putative function*

CLASS	TYPES
1. Tools	<div> <div> axes adzes chisels knives scrapers awls sickles shaft hole adzes choppers wedges whetstones hammerstones grindstones files/slips polishers fabricators </div> <div> arrow straighteners axe-hammers gouges spokeshaves saws sponge fingers burins spurred implements knotched flakes perforated pebbles grooved mauls casting moulds anvils weights mace-heads </div> </div>
2. Weapons	<div> arrowheads laurel leaves daggers </div>
3. Appliances	<div> querns rubbers lamps mortars fishing weights grinding benches </div>
4. Ornaments	<div> pendants beads wristguards </div>
5. Projective / display items	<div> decorated stones plaques figurines mace-heads balls discs small "axes" ceremonial axes battle-axes </div>

* Excluding items made from imported stone.

TABLE 27.

Woodworking tool types.

TYPES	SUGGESTED USES
Axes (large) (small)	tree felling wood shaping and cutting
Adzes	paring and shaping
Chisels	shaping and hollowing
Wedges	splitting
Spokeshaves	smoothing and shaping
Knives	whittling and shaping
Saws / serrated blades	cutting
Scrapers	planing and smoothing
Points / awls	drilling and piercing
Dowel maker	smoothing shafts etc.

TABLE 28.

Early metal artifact types known from the study area.

TYPES	METAL
1. <u>Mount Pleasant phase.</u>	
Tanged daggers	copper
Broad butt flat axes	copper
Straight sided narrow butt axes	copper
Awls	copper
Halberds	copper and bronze
Narrow butt flat axes (Migdale)	bronze
Arched heel daggers	bronze
Sheet ornaments	bronze and gold
Other ornaments	gold
Ring	lead ?
2. <u>Overton phase.</u>	
Flanged axes	bronze
Halberd pendants	bronze
Bush Barrow type daggers	bronze
Double point awls	bronze
Sheet ornaments	gold

TABLE 29.

Deposition contexts of early metal artifacts.

1. Mount Pleasant phase.

TYPE	GRAVES	STRAY FINDS	HOARDS
Daggers	18	2	-
Awls	7	1*	-
Halberds	-	6	1
Axes	1	25	4
Other objects	6	1	-
T O T A L S **	32	35	5

* Possibly from a settlement.

** Total will not match number of sites as some sites have more than one item / context.

2. Overton phase.

TYPE	GRAVES	STRAY FINDS	HOARDS
Daggers	2	-	-
Awls	4	-	-
Axes	1	18*	-
Other objects	4	-	-
T O T A L S **	11	18	-

* Includes 3 axes residual in later hoards.

** Total will not match number of sites as some sites have more than one item / context.

TABLE 30.

Artifact types manufactured in bone / antler.

CLASS	TYPES
Tools	<ol style="list-style-type: none">1. Spatulae/smoother (Figure 83. G & H)2. Chisel/scoop/gouge (Figure 83. E, K, L & P)3. Point/awl (Figure 83. I, J, M & R)4. Punch (Figure 83. O)5. Rod (Figure 83. Q)6. Antler Comb (Figure 83. D)7. Antler pick (Figure 83. A)8. Antler lever9. Antler rake (Figure 83. C)10. Scapulae shovel (Figure 83. B)11. Points - "winkle pickers"12. Hoe
Ornaments	<ol style="list-style-type: none">13. Pins (Figure 84. A - G)14. Beads (Figure 84. M - P & L)15. Belt-rings/toggles (Figure 84. U)16. Perforated plate17. Pendant (Figure 84. H & I)18. Ring (Figure 84. J & K)19. Die *
Other	<ol style="list-style-type: none">20. Lozenge (points) (Figure 83. N)21. Haft (eg. Figure 83. F)22. Whistle23. Dagger pommel (Figure 84. Q - S)24. Needle *

* Not certainly from neolithic contexts.

TABLE 31.

Constructions executed by civil engineering activities.

TYPES.	
1.	<u>Graves / burial structures.</u> Earthen long barrows Chambered tombs (including dolmen and long mound barrows) Cist tombs Round barrows Ring ditches / barrows
2.	<u>Settlement structures.</u> Causewayed enclosures / interrupted ditch systems Defended enclosures Houses House fittings / domestic features
3.	<u>Ritual (?) monuments.</u> Henges Curs̄s Standing stones Stone circles / avenues Bank barrows
4.	<u>Other.</u> Trackways Fields Boundary constructions (including fences and walls)

TABLE 32.

Archaeological evidence for interaction / exchange activity execution.

ACTIVITY	EQUIPMENT REQUIREMENTS	LANDFORMS	PORTAGE	EXCHANGED ITEMS
Trading	boats transporters pack animals	trackways exchange- places	hoards / caches mint condition items	(see table 33)

TABLE 33 A.

Types of finished goods trans-located through long-distance exchange.

CLASS	TYPE	SOURCE
Axes	jadeite flint porcellanite dolerite	Switzerland / north Italy Scandanavia Northern Ireland Central Brittany
Perforated implements	battle-axes	Northern Europe
Bronze tools	axes	Ireland
Stone objects	? querns	Niedermendig, Rhineland

2000

2000

TABLE 34.

Population activities and equipment requirements.

ACTIVITIES	EQUIPMENT
1. <u>Reproduction activities.</u>	
Mating	(none)
2. <u>Aggregation activities.</u>	
Cooking	pounders, containers, knives, spoons, fires
Eating	containers
Drinking	containers, storage vessels
Fire-making	strike-a-lights, iron pyrites
3. <u>Primary protective activities.</u>	
House building	axes, knives, hammers, adzes, chisels, picks, shovels
Windbreak building	axes, hammers
Firemaking	strike-a-lights, iron pyrites
Drainage	picks, shovels
4. <u>Secondary protective activities.</u>	
Rampart building	picks, shovels, axes, baskets
Wall building	picks, shovels, axes
Ditch digging	picks, shovels, baskets

TABLE 35.

Archaeological evidence for population activities.

EVIDENCE ACTIVITIES	ARTIFACTUAL	STRUCTURAL / LANDFORM	ACTIVITY WASTES	BIOLOGICAL / ENVIRONMENTAL
REPRODUCTIVE	-	-	-	changes to craniometric traits
AGGREGATION	bowls, cups, jars, spoons, knives, querns, rubbers	hearths meeting- houses courtyards	food remains, broken equipment	clearings
PRIMARY PROTECTIVE	axes, knives, shovels, picks, levers chisels	houses, windbreaks tents palisades hearths fences	abandoned structures	clearings, borrow pits
SECONDARY PROTECTIVE	weapons spades shovels picks levers	ramparts ditches palisades walls fences gateways	abandoned structures	clearings

TABLE 36.

Cephalic index data for neolithic skulls from 5 regions of Britain (Sources: Various).

REGION	MEAN CEPHALIC INDEX	STANDARD DEVIATION	SAMPLE SIZE
1. North Wales	NDA	NDA	-
2. South Wales	NDA	NDA	-
3. South and central Wales	72.33	1.69	6
4. The Cotswolds	73.78	4.42	37
5. North Wiltshire	71.26	3.38	23
North Wiltshire (Unchambered long barrows) *	70.70	3.22	18
Beaker and EBA burials from the study area	81.93	7.23	29

* Data includes unchambered long barrows in northern England, but is for males only: data from Fereday 1956.

NDA = No data available.

TABLE 37.

Cranial data from barrows in the Swell region of Gloucestershire (Sources: various).

SITE	LENGTH	BREADTH	HEIGHT	C.I.	STANDARD DEVIATION OF CI	SAMPLE SIZE
1. Belas Knap (GLE 259)	7.40	5.34	5.48	71.4	2.740	17
2. Eyford Hill (GLE 299)	7.23	5.36	5.70	74.6	2.250	6
3. Cow Common Long (GLE 266)	7.63	5.42	5.70	70.5	4.974	4
4. Poles Wood East (GLE 261)	7.25	5.41	5.27	74.5	1.500	2
5. Poles Wood South (GLE 263)	7.40	5.60	5.65	76.0	-	1

All measurements in inches.

TABLE 38.

Cranial data from sites in the Avebury region (Sources: various).

SITE	LENGTH	BREADTH	HEIGHT	CEPALIC INDEX	STANDARD DEVIATION OF C.I.	SAMPLE SIZE
1. Lanhill (WI 129) (\bar{x})	7.30	5.29	4.69	72.15	2.277	7
2. Luggbury (WI 178) (\bar{x})	7.71	5.48	5.66	71.10	1.810	7
3. West Kennet (WI 16) (\bar{x})	7.73	5.51	5.57	70.80	1.980	8
4. Winterbourne Monkton (WI 252) (Beaker cists x)	7.58	5.44	5.42	71.12	3.139	8
5. Other Beaker burials (\bar{x})	7.50	6.10	5.56	81.00	3.535	4

All measurements in inches.

TABLE 39.

Possible activities undertaken within each of the defined projective activity sets.

ACTIVITY SETS	ACTIVITIES
MORTUARY RITUALS	burials funerary feasts pre-burial rituals deposition of bodies
IDEATION	affirmation rites worship / idolisation taboo placation
PREFIGURATIVE	divination magic calendrical calibration
PROJECTIVE FOR PLEASURE	playing music perform dances perform drama / plays creative artwork

TABLE 40.

Possible archaeological evidence for projective activities.

ACTIVITY SETS	EQUIPMENT NEEDS	LANDFORMS & STRUCTURES	ENVIRONMENT	WASTE & PRODUCTS
MORTUARY RITES	tools	graves burial pits cists cemeteries barrows tombs	specific locations	quarry- heaps
IDEATION	figurines votive items alters	ritual foci	specific treatment of plants or animals	ritual- rybbish
PREFIGURATIVE	calendrical devices	calendrical devices	? clearances	?
PROJECTIVE FOR PLEASURE	instruments tools special garments	arena	?	?

TABLE 41.

Summary of deposition contexts containing skeletal remains.

<p>1. Specifically funerary contexts:</p>	<ul style="list-style-type: none"> - Portal dolmen - Rotunda graves - Mortuary enclosures - Long mound tradition chambered tombs <ul style="list-style-type: none"> : lateral chambers : simple terminal chambers : transepted terminal chamber : timber structures - Simple passage graves - Developed passage graves - Kidney shaped mounds with simple chambers - Pit graves - Corbelled chambers - Boat shaped cists under round mounds - Single burials under round cairns * - Multiple burial under round cairn - Multiple cist / grave under round mound - Flat single graves - Flat multiple graves - Cemetery of graves / cists - Cave deposits
<p>2. Other contexts</p>	<ul style="list-style-type: none"> - Settlement sites - Causewayed enclosures - Stone circles - Stone avenues - Henges

* Including ring ditches.

TABLE 42.

Frequency of recorded burial structures.

TYPES	RECORDED * EXAMPLES
1. Portal dolmen	37
2. Rotunda graves	9
3. Mortuary enclosures	2
4. a. Long mound tradition - lateral chambers	32
b. Long mound tradition - simple terminal chambers	25
c. Long mound tradition - transepted terminal chamber	14
d. Long mound tradition - timber structures	11
5. a. Simple passage graves	9
b. Developed passage graves	3
6. Kidney-shaped mounds with simple chambers	2
7. Pit graves	2
8. Corbelled chambers	6
9. Boat shaped cists under round cairns	5
10. Single burials under round cairns / ring ditches	74
11. a. Multiple burial in a single cist under a round cairn	5
b. Multiple cists / graves under a round cairn	3
12. a. Cist / grave with no covering mound - single burial	60
b. Cist / grave with no covering mound - multiple burial	3
13. Cemeteries	16
14. Burial caves	29
TOTAL IDENTIFIABLE SITES	347
UNCLASSIFIABLE TYPE 1, 2, 4, 5, 6 SITES	266
TOTAL	612

* Minimum number.

TABLE 43.

Summary of late stage 3 and stage 4 burial deposits.

TYPE	MALE %	FEMALE %	CHILDREN %	UNKNOWN %
Boat shaped cist burials	10	--	16	74
Single burials under no associations beaker E.B.A. cairns	-- 20 40	100 * -- 10	-- -- --	-- 80 50
Multiple burials in single cists	27	11	5	57
Multiple cists under a round cairn	33	--	41	26
Flat cist / grave with no associations beaker single burial E.B.A.	50 27 --	16 5 --	-- 10 --	34 58 --
Multiple burials in flat cist/graves	22	22	33	23
Cemeteries	36	16	7	41

* only one site with recorded data on age/ sex of burial

TABLE 44.

Summary of late stage 3 and stage 4 burial modes.

TYPES		ECOZONE 1 & 2		ECOZONE 3*	
		% inhum.	% crem.	% inhum.	% crem.
Boat shaped cist burials		98	2	100	—
Single burials under cairns	no associations	100	—	100	—
	beaker	86	14	100	—
	E.B.A.	77	23	84	16
	all	84	16	62	38
Multiple burials in single cists		100	—	57	43
Multiple cists under a round cairn		100	—	75	25
Flat cist/ grave with single burial	no association	100	—	100	—
	beaker	87	13	50	50
	E.B.A.	—	—	—	—
Multiple burials in flat grave		100	—	100	—
Cemeteries		100	—	100	—

inhum. = Inhumation crem. = Cremation

* When grave is empty it is assumed that an inhumation burial was present.

TABLE 45.

Associational characteristics of stage 4 single grave burials.

TYPE	BEAKER AND RELATED ITEMS	E.B.A. METALWORK & RELATED ITEMS	OTHER / NO ASSOCIATIONS
FLAT SINGLE GRAVES	56%	8%	36%
BARROW COVERED SINGLE GRAVES	47%	33%	20%

TABLE 46.

Contexts of recorded projective/ideological items.

TYPES	STAGE 1	STAGE 2	STAGE 3	STAGE 4	UNSTRATIFIED/ UNDATED
DISCS	--	19	--	--	12
BALLS	--	15	--	16 *	--
FIGURINES	--	3	--	--	--
PHALLI	1	2	--	1	--
CUPS	--	--	--	3 **	4
DECORATED PLAQUE	--	--	--	--	1
CARVED STONES	--	(several)***	--	1	--

* Upper ditch fill at Windmill Hill (WI 11) and Avebury (WI 13)

** Upper ditch fill at Windmill Hill (WI 11)

*** Ditch fills at Windmill Hill (WI 11)

TABLE 47.

Motifs represented on passage grave stones from North Wales.

MOTIF (Piggott type)*	Bryn-celli- Ddu (henge)	Bryn-celli- Ddu (P. grave)	Barclodiad -y- Gawres	Llanbedr Church	Graig Lwyd
Single spiral (5a)	X	X	X	X	-
Double spiral (5b)	-	-	X	-	-
Scalloped outlines (8)	X	-	X	-	-
Angular zig-zags (11a)	-	-	X	-	X
Meander (11b)	X	-	X	-	-
Outline lozenges (12a)	-	-	X	-	-

* Piggott motif types after Piggott 1954,211.

TABLE 48.

Association of projective monuments at the same site or very near-by.

	STONE CIRCLES (75)*	HENGES (37)	AVENUES (6)	CURSŪS (9)	BANK BARROWS (2)
STONE CIRCLES	5	6	4	0	0
HENGES		3	2	1	0
AVENUES			1	0	0
CURSŪS				0	0
BANK BARROWS					0

* Figures in brackets show the number of recorded sites with each monument type.

TABLE 49.

Activity types comprising political activity sets.

ACTIVITY SETS	PRIMARY ACTIVITIES	SECONDARY ACTIVITIES	TERTIARY ACTIVITIES
GOVERNING	meetings / debates rituals displays of power and authority	interpersonal message transfer encoding items with relevant information	censure ostracation punishment physical coercion
DELIMITING	meetings / debates rituals displays of power and authority	interpersonal message transfer encoding items with relevant information	war attacks

TABLE 50.

Political activities and possible equipment needs.

	ACTIVITIES	REQUIREMENTS*
PRIMARY ACTIVITIES	meetings / debates ritual power displays	<ul style="list-style-type: none">- meeting houses, central places,- communal areas- ritual centres- prestige objects,- objects for disposal,- goods to distribute
SECONDARY ACTIVITIES	message transfer	<ul style="list-style-type: none">- objects and productive capacity,- man-power for constructions- context for display
TERTIARY ACTIVITIES	punishment war / attacks	<ul style="list-style-type: none">- objects to inflict punishment- provisions to restrict privileges- weapons- defences

* not all necessary requirements and not all necessarily represented.

TABLE 51.

Summary of archaeological evidence for political activities.

EVIDENCE TYPES	EXAMPLES*
ARTIFACTS (1)	ceremonial axes battle axes maceheads necklaces pendants / lunulae belt fittings garment fittings
LANDFORMS / STRUCTURES	standing stones barrow mounds monumental mounds rich graves defended enclosures special burials
OUTPUT RESIDUES.	pottery / pottery decoration

* Not an exhaustive selection.

(1) "sociotechnic" items in the terminology of Binford (1962).

TABLE 52.

Energy costs of producing items deposited in stage 4 graves.

ASSIGNED ITEM VALUES	ITEMS	NUMBER OF GRAVES CONTAINING ITEM	RANK ORDER OF OCCURRENCE
High time / energy cost items (value = 15)	Pottery vessel	116	1
	Bronze knife/dagger	21	2
	Axe-hammer	4	=9
	Flint dagger	4	=9
	Bronze axe	2	=17
	Sheet gold ornament	2	=17
	Necklace	2	=17
Medium time/ energy cost items (value = 10)	Bronze awl	7	6
	Jet button	6	7
	Wristguard	5	8
	Bead	4	=9
	Bone toggle	3	=13
	Bronze pin	2	=17
	Jet ring	2	=17
	Gold button cap	1	=23
	Lead ring	1	=23
Low time / energy cost items (value = 5)	Flint knife	15	3
	Flint (miscellaneous)	13	4
	Arrowhead	10	5
	Sponge finger	4	=9
	Bone pin/point	3	=13
	Bone spatulae	3	=13
	Pendant	3	=13
	Iron Pyrites	2	=17
	Arrow shaft straightener	1	=23
	Hammerstone	1	=23
	File / touchstone	1	=23

Total number of furnished graves = 136

TABLE 53.

Age / sex associations of stage 4 grave deposits.

OBJECTS	MALES	FEMALES	CHILDREN	UNDETERMINED
<u>1. Personal ornaments.</u>				
Necklace	-	1/2	-	1/2
Pendant	-	1/3	-	2/3
Bead	-	1/4	-	3/4
Pin (point ?)	4/5	-	1/5	-
Jet button / button cap	3/7	-	-	4/7
Bone toggle /belt ring	4/6	-	-	2/6
Tippet	1/1	-	-	-
Earring	?1/1	-	-	-
Amber disc	1/1	-	-	-
Sun disc	1/1	-	-	-
<u>2. Activity items.</u>				
Wristguard	3/5	-	-	2/5
Arrow shaft straighteners	-	-	-	1/1
Bone spatulae	2/3	1/3	-	-
Sponge fingers	2/4	-	1/4	1/4
Iron pyrites	1/2	-	-	1/2
Flint knife	8/15	2/15	1/15	4/15
Bronze awl	3/7	2/7	-	2/7
Hammerstone	1/1	-	-	-
File / touchstone	1/1	-	-	-
Arrowstone	5/10	1/10	-	4/10
<u>3. Miscellaneous.</u>				
Bronze knife/dagger	5/21	2/21	-	14/21
Bronze axe	-	-	-	2/2
Axe-hammer	1/4	-	1/4	2/4
Pottery vessel	39/116	9/116	10/116	58/116
Flint dagger	1/4	-	1/4	2/4

Fractions show the number of occurrences over the total number of graves containing each artifact type.

TABLE 54.

Matrix showing associations between stage 4 grave good classes.

	PERSONAL ORNAMENTS	ACTIVITY ITEMS	MISCELLANEOUS	NO ASSOCIATIONS
PERSONAL ORNAMENTS	6	8	16	0
ACTIVITY ITEMS		8	37	3
MISCELLANEOUS			23	76
NO ASSOCIATIONS				0

Numbers indicate the number of graves with specified associations.

TABLE 55.

Matrix showing associations between stage 4 personal ornaments in graves.

	HEAD	NECK	BODY	BELT	NO ASSOCIAT- IONS
HEAD	1	-	-	-	3
NECK		3	2	-	3
BODY			-	3	4
BELT				-	3
NO ASSOCIA- TION					-

Figures indicate the number of objects observed in each relationship.

Object groups relate to the putative position of wearing.

TABLE 56.

Correlation indices for barrow locations.

	Land altitude/long barrow altitude index.	Land altitude/round barrow altitude index
Wiltshire	0.74	0.79
Gloucestershire	0.50	0.57
Somerset	0.49	0.28
Caernarvonshire	1.30	0.65
Glamorgan	1.12	0.71

See Appendix III for details of calculation procedures and references to data sources.

TABLE 57.

Percentage land use for various activities in ecozones 1 and 2 by land type and time period.

	T1	T2	T3
LAND TYPE 1.	arable = 0.15% grazing/ browsing = 1.75%	arable = 0.1% grazing/ browsing = 1.5%	arable = 0.18% grazing/ browsing = 2.0%
LAND TYPE 2	arable = 0.1% grazing/ browsing = 1.5%	arable = 0.05% grazing/ browsing = 1.6%	arable = 0.12% grazing/ browsing = 1.7%

TABLE 58.

Production figures and calorific outputs of subsistence produce.

1. WHEAT.

Output	= 96663 Kg. per KM. sq.	(Garner & Dyke 1969)
Cal. value	= 3300 K.Cal. per kg.	(Spector 1956)

2. BARLEY.

Output	= 87875 Kg. per KM. sq.	(Warren & Johnson 1967)
Cal. value	= 3490 K.Cal. per kg.	(Spector 1956)

3. CATTLE.

Meat weight	= 15000 Kg. per KM. sq.*	(Spedding and Hoxley 1975)
Cal. value	= 2150 K.Cal. per kg.	(Spector 1956)

4. SHEEP.

Meat weight	= 10725 Kg. per KM. sq.*	(Spedding and Hoxley 1975)
Cal. value	= 2000 K.Cal. per kg.	(Spector 1956)

5. PIGS.

Meat weight	= 20300 Kg. per KM. sq.*	(Spedding and Hoxley 1975)
Cal. value	= 3830 K.Cal. per kg.	(Spector 1956)

* Figure taken at $\frac{1}{2}$ present-day levels.

Kg.	Kilogram
sq.	Square
KM.	Kilometre
K.Cal.	Kilocalories
Cal.	Calorific

TABLE 59.

Estimated calorific outputs from 10 x 10 KM. squares of pure land type in ecozone 1. (in Kilocalories).

	T1	T2	T3
LAND TYPE 1.	115322961	83120391	1506066707
LAND TYPE 2.	89945241	71004110	110916657

TABLE 60.

Estimated calorific outputs for 10 x 10 KM. squares of pure land type in ecozone 2. (in Kilocalories)

	T1	T2	T3
LAND TYPE 1.	125825906	100742604	157562590
LAND TYPE 2.	98636174	90190752	123073080

TABLE 61.

Percentage land use for various activities in ecozone 3 by land type and time period.

	T1	T2	T3
LAND TYPE 1	Arable = 0.05% Grazing = 0%	Arable = 0.07% Grazing* = 0.01%	Arable = 0.1% Grazing* = 0.02%
LAND TYPE 2	Arable = 0.05% Grazing = 0%	Arable = 0.07% Grazing* = 0.01%	Arable = 0.1% Grazing* = 0.02%
LAND TYPE 3	Grazing = 1.5%	Grazing = 3.0%	Grazing = 5.0%

* Pigs only.

TABLE 62.

Estimated calorific output for 10 x 10 KM. squares in ecozone 3 (in Kilocalories).

	T1	T2	T3
LAND TYPE 1	15703312	22762126	32961604
LAND TYPE 2	15703312	22762126	32961604
LAND TYPE 3	10068375	20946900	31535875

TABLE 63.

Summary of recorded burials from various generalised depositional contexts.

CONTEXT	NUMBER
Causewayed enclosures	10+
Earthen long barrows	13+
Chambered tombs	782+
Beaker flat graves / cists	64+
Beaker round barrow burials	66+
Burials in caves	78+
Burials at stone circles	6+
Burials without accompanying pottery	73+
E.B.A. burials	40+
Other (Miscellaneous)	15+
T O T A L	1150+

TABLE 64.

Energy requirements of human populations (per day).

AGE	BODY WEIGHT *		REQUIREMENTS **	
	Males	Females	Males	Females
- 1	7.3		820	
1 - 6	13.4		1830	
7 - 10	20.2		2190	
10 - 12	36.9	38.0	2600	2350
13 - 15	51.3	49.9	2900	2490
16 - 19	62.9	54.4	3070	2310
20 +	63.0 +	58.0 +	3000	2200

Data from W.H.O. (1974).

* Body weights in Kilograms

** Requirements in Calories per day

TABLE 65.

Cranial measurements from burials in north Wiltshire and south Gloucestershire. (Data from Davies and Thurnam 1865).

CASE	SITE	LENGTH	BREADTH	HEIGHT	CIRCUM- FERENCE	FRONT- OCC. ARCH.	FRONTAL			PARIETAL			OCCIPITAL		
							length	breadth	height	length	breadth	height	length	breadth	height
1	West Kennet long barrow (\bar{x}) (WI 16)	7.7	5.5	5.5	21.4	15.6	5.3	4.6	4.8	5.6	5.4	4.9	4.8	4.5	4.4
2	Littleton Drew (Lugbury) (\bar{x}) (WI 178)	7.7	5.4	5.6	21.3	15.5	5.0	4.6	4.8	5.5	5.2	5.0	5.0	4.5	4.4
3	Roundway Down Round Barrow (WI 202)	7.8	6.4	5.3	22.5	16.0	5.5	5.1	4.9	5.2	6.0	5.3	5.3	4.8	4.9
4	Roundway Down Round Barrow (WI 203)	7.4	6.2	5.7	21.7	15.2	5.5	5.3	5.4	5.2	6.0	5.2	4.5	4.6	3.8
5	Morgans Hill Round Barrow (WI 78)	7.6	5.7	5.7	21.4	15.3	5.1	4.6	4.8	5.2	5.5	4.9	5.0	4.6	4.4
6	Winterbourne Monkton Cist grave (WI 252)	7.7	5.6	5.8	21.5	15.9	5.5	4.8	4.9	5.2	5.4	4.9	5.2	4.5	4.3
7	Winterbourne Monkton Cist grave (WI 250)	8.0	5.9	5.5	22.2	16.0	5.2	5.0	4.9	5.5	5.5	4.9	5.3	4.6	4.5
8	Kennet Hill Round Barrow	7.7	5.7	6.2	21.7	15.4	5.3	5.0	5.3	5.1	5.6	5.3	5.0	4.7	4.3
9	Rodmarton Long Barrow (\bar{x}) (GLE 238)	7.7	5.6	5.5	21.6	15.9	5.2	4.7	4.7	5.4	5.4	4.9	5.2	4.5	4.5
10	Hetty Pegler's Tump (GLE 293)	8.0	5.7	5.5	21.8	16.4	5.8	4.7	5.0	5.5	5.6	5.0	5.1	4.6	4.5
11	Nympsfield Long Barrow (GLE 125) (\bar{x})	7.7	5.7	5.7	21.8	15.8	5.4	4.8	4.9	5.1	5.4	5.0	5.3	4.6	4.7

TABLE 66.

Cephalic index statistics for 10 regions in Wales (Data from Fleure and Davies 1958).

REGION	MEAN CEPHALIC INDEX	STANDARD DEVIATION	SAMPLE SIZE*
1. Anglesey	78.40	5.78	423
2. Arfon	83.56	7.30	483
3. Llyn	82.53	6.10	239
4. Denbighshire	78.70	4.75	278
5. Ardudwy & Eifioydd	79.30	4.06	168
6. Bala Cleft	77.90	4.32	186
7. Plynluman	84.26	7.75	352
8. Teifiside	77.90	5.10	386
9. Carmarthenshire	78.30	5.30	339
10. Gower	76.00	5.93	320

* Total sample size = 3175. Only males over 21 were measured, and they must have both parents and all 4 grandparents from within the region.

TABLE 67.

Cephalic index statistics for 12 eparishes in esatern Crete (Data from Roberts 1954).

REGION	MEAN CEPHALIC INDEX	STANDARD DEVIATION	SAMPLE SIZE*
1. Piriotissa	78.70	3.29	40
2. Milopotamas	77.80	4.06	130
3. Kainourion	79.40	4.53	104
4. Malevizion	79.80	4.19	34
5. Monofatsion	78.30	4.26	86
6. Temenos	80.00	3.93	35
7. Pedhiadha	78.80	3.44	139
8. Viannos	79.60	3.41	54
9. Lasithi	76.60	3.52	97
10. Merabello	78.90	3.76	110
11. Ierapetra	78.20	3.62	80
12. Sitia	81.00	4.19	84

* Total sample size = 993. Only male adults sampled.

TABLE 68.

Cephalic index statistics from 8 eparchies in western Crète (Data from Roberts 1954)

EPARCHIES.	MEAN CEPHALIC INDEX	STANDARD DEVIATION	SAMPLE SIZE*
1. Kilsamos	79.50	4.61	82
2. Selinon	81.10	4.10	82
3. Kidhonia	78.40	4.29	160
4. Spakhia	80.50	3.90	276
5. Apohoronas	79.50	4.15	101
6. Rethimni	79.80	2.90	102
7. Ayios Vasilios	78.40	3.71	73
8. Amari	78.70	3.06	99

* Total sample = 975. Only adult males measured.

TABLE 69.

Cephalic index statistics for 8 regions on the Isle of Man (Data from Davies and Fleure 1936)

REGIONS	MEAN CEPHALIC INDEX	STANDARD DEVIATION	SAMPLE SIZE*
1. Andreas, Bride & Jurby	78.94	4.19	150
2. Ballaugh & Lezayre	79.10	9.00	139
3. Maughold & Lanan	78.90	4.55	115
4. Michael & German	78.90	4.43	142
5. Malew & Marown	78.80	4.06	152
6. Onchan, Braddan & Santon	79.10	4.92	133
7. Rushen & Arbory	79.30	5.00	243
8. Patrick	78.80	3.87	126

* Total sample size = 1200. Only adult males measured.

NOTES

NOTES TO CHAPTERS 1 - 12

- (1) Throughout this work the term social change is taken to mean alterations in the pattern of co-existent actions. The term goal is used to mean the end result towards which actions are directed, whether consciously or unconsciously (see Parsons 1970a, 75).
- (2) Sub-divisions of society based on inherently "systemic" properties would be grounded in a more mechanistic theory whereby goals relate to the total system rather than its component parts. Kuhn (1974) for example isolates detector, selector and effector components of social systems (and see Clarke 1978, 73 for similar model). In the present analysis no overall system goal is specified, as society is seen as a self organising system.
- (3) As a conceptual device the notion of a diachronic trajectory has already found successful application in understanding extinct social systems (eg. Clarke 1978, 73; Friedman and Rowlands 1977, 241), the latter going so far as to use multi-linear trajectories to model change. The methodologies by which trajectories are indicated in this research differs from previous usage.
- (4) Domestic type beaker ware can be detected among some early assemblages, as for example at Chew Park (AV 118 - ApSimon 1977, 175) in the study area and Downton, outside the study area in Wiltshire (ApSimon 1963). A general consideration of early beaker ceramic assemblages has recently been presented by Whittle (1981, 310-320).
- (5) Use of the term ox is here taken to mean any bovine animal (cf. Concise Oxford Dictionary meaning 1).
- (6) The Council for British Archaeology's scheme for numbering

defined rock types used in axe manufacture as a series of groups identified by Roman numerals is followed here. Full details of all groups defined up until 1979 can be found in the volume entitled Stone Axe Studies (Clough and Cummins 1979, 127).

- (7) Some poorly documented finds may provide parallels for the Hazleton flint-worker. A hammerstone of unknown origin in Devizes Museum is labelled "found in the left hand of skeleton", and two large cores were found adjacent to skull no.3 during excavations at Lyneham long barrow (OX 98). The latter objects are now in the Pitt-Rivers Museum, Oxford (no. III,S9.P170(S)).
- (8) Determining the authenticity of objects more at home elsewhere in Europe is fraught with difficulties. Only objects which have either 1/ good archaeological contexts or 2/ status as stray finds from areas where they are unlikely to have been lost or deposited during the disposal of ethnographic collections are considered. Some other possible examples from collections which are known to include acquired foreign objects have been excluded in the knowledge that some might be genuine.
- (9) The shale arc-pendant from Peak Camp (GLE 97) was kindly subjected to X-ray fluorescence analysis as part of a wider programme by the Oxford Laboratory for Archaeology and Art History. Unfortunately the results do not enable the exact source to be pinpointed among the many known outcrops of shale (see Pollard et al 1981 for interim report on study).
- (10) The site at Cherhill (WI 116) has a series of discontinuous ditches, but these are best seen as borrow pits, and cannot be considered as the remains of an enclosure (I.F.Smith pers. comm.; contra Whittle 1977,33).
- (11) It has been pointed out to me by Mr A.M.ApSimon that many of the stage 1 rotunda graves, superficially at least, resemble the Linkardstown cists of east central Ireland

(see Raftery 1944; Herity 1982, figs. 1. and 11). Although the cairns encapsulating the Irish cists are rather larger than those in England and Wales, overall construction and cist morphology are remarkably similar. Further speculation on possible relationships must however await radiocarbon dates for examples in both areas.

- (12) Terminology relating to mortuary enclosures is imprecise as the term is usually taken to include both post edged rectilinear structures as at Fussell's Lodge, Wiltshire (Ashbee 1966) and oval ditched arrangements such as are represented in the study area and paralleled in Wessex at, for example, Nutbane, Hampshire (Morgan 1959, fig.3). A distinction may therefore be proposed between fenced enclosures and ditched enclosures. The presence of mortuary houses within some mortuary enclosures should be noted.
- (13) Cremation burials roughly contemporary with inhumation burials and deposited in similar circumstances are a feature of Linearbandkeramic cemeteries in mainland Europe (cf. Modderman 1975, 278; 1970, 45).
- (14) The term long mound as used here should not be confused with the long mounds of chambered tombs or earthen long barrows. In many ways bank barrow provides a better descriptive nomenclature for the monuments described here.
- (15) An interesting ethnographic parallel for stone circles is found in the so called "shepherds clocks" once used by herdsmen in England and Wales (see Gossett 1911, 272-4 and Folklore volume 20 (1909), 64-70).
- (16) Activities within the political subsystem are in some ways similar to those within the "social subsystem" of other writers (eg. Renfrew 1972, 364) but the term political subsystem is preferred here, firstly because of the bonding of social groups and the control of actions implied by the the term, and secondly because the term social system is taken to mean the total society which comprises six subsystems in this analysis.

- (17) In this usage the word legitimate means to support actions or statements with socially acceptable authority.
- (18) When interpreting artifacts included with burials it is as well to remember the pitfalls of reconstruction which are highlighted from ethnographic instances (see Ucko 1969).
- (19) Stray finds of arrowheads are not included here.
- (20) A recent study of the neolithic period in western France (Joussaume 1981) has shown that plain pottery in forms not dissimilar to those of the British and Irish early neolithic were used in coastal areas by about 4000 bc. These styles probably have Chasseen origins and may argue for a larger western component to the British neolithic than has recently been thought. Care must be taken in placing too much emphasis on fractionated Linear Pottery groups in view of the lack of decoration found on early British and Irish pottery. Slight changes in the putative origin of any neolithic colonists does not affect the basic orientation of movement in the fifth and fourth millennia bc.
- (21) The contextual origin of samples yielding early dates varies greatly. At Carn Brae, Cornwall, the enclosure wall is thought to have been built before 3177-2921 bc taking the available date at two standard deviations (Mercer 1981, 63). At Brier Hill, Northamptonshire, a sample from a context above the primary silt of the outer ditch yielded a date of 3490 ± 110 bc (Bamford 1980, 361), although until the site is fully published it remains unclear whether pre-enclosure material could have contributed to the sample. The dates from Hembury, Devon, (3150 ± 150 bc and 3330 ± 150 bc) were derived from old samples which are stratigraphically difficult to assess (see Radiocarbon volume 10).
- (22) Despite many cultural similarities between Ireland and Wales at this time it is conspicuous that pottery forms are markedly different in the later neolithic. No sherds of the distinctive Carrowkeel ware associated with passage graves

in Ireland have been recorded in Britain, and the British Peterborough and grooved ware series is notably absent from Ireland (see Herity 1982).

- (23) ApSimon (1976, 46-7) refers to the period 2000 - 1700 bc as the Final Neolithic.
- (24) Parsons defines an evolutionary universal as any organisational development sufficiently important for further evolution that, rather than emerging only once, is likely to have been "hit-upon" by various systems operating under different conditions (Parsons 1964, 339).
- (25) Renfrew has recently characterised the paradigm currently emerging in archaeology as the morphogenetic paradigm (1982, 463). He suggests that five elements may come together in such a scheme:

- 1/ concept of system trajectories in the dynamic sense.
- 2/ concept of self organising systems.
- 3/ identification and analysis of information flows within society.
- 4/ computer simulation.
- 5/ analysis of cognitive aspects of human society.

This research has focused on the first three elements.

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Abbreviations used for periodic literature* :

AA.	Archaeologia Aeliana
A.Atlant.	Archaeologia Atlantica
ABF.	Acta Botanica Fennica
AC.	Archaeologia Cambrensis
AGSM.	Acta Genetica Statistica Midica
AHR.	Agricultural History Review
AJPA.	American Journal of Physical Anthropology
AJS.	American Journal of Sociology
Am.Anthropol.	American Anthropologist
Am.Ant.	American Antiquity
Am.S.	American Scientist
An. Bret.	Annales de Bretagne
ANL.	Archaeological Newsletter
Ant.	Antiquity
Ant. J.	Antiquaries Journal
APAO.	Archaeology and Physical Anthropology in Oceania
AP.	Aerial Photography
Archaeol.	Archaeologia
Arch.J.	Archaeological Journal
ARA.	Annual Review of Anthropology
Arch.Rev.	Archaeological Review (of CBA. groups 12 & 13).
ARES.	Annual Review of Ecology and Systematics
ARIAL.	Annual Report of the Institute of Archaeology, London
ASR.	American Sociological Review
AW.	Archaeology in Wales (Report of CBA. Group 2)
BAJ.	Berkshire Archaeological Journal
BAR.	British Archaeological Reports
BARGB.	Bristol Archaeological Research Group Bulletin
BBCS.	Bulletin of the Board of Celtic Studies
BCASJ.	Bath and Cambourn Archaeological Society Journal
BIA.	Bulletin of the Institute of Archaeology, London
BJPS.	British Journal for the Philosophy of Science
BJS.	British Journal of Sociology
BS.	Behavioural Science
CA.	Current Archaeology
C.Ant.	Carmarthen Antiquary
C.Anthrop.	Current Anthropology
CPATAR.	Clwyd-Powys Archaeological Trust Annual Report
Corn.A.	Cornish Archaeology
DA.	Dialectical Anthropology
DGV.	Danmarks Geologiske Underogelse
ER.	Eugenics Review

ES.	Economy and Society
FHSP.	Flintshire Historical Society Publications
FNA.	Fra Nationomliseets Arbejdsmark
GA.	Geografisha Annåler
Geog.J.	Geographical Journal
Gent.Mag.	Gentlemen's Magazine
Glevensis	(Report of the Gloucester and District Archaeological Research Group)
GS.	General Systems
HB.	Human Biology
IARF.	Irish Archaeological Research Forum
IJE.	International Journal of Ethics
IJNA.	International Journal of Nautical Archaeology
IS.	Incorporated Statistician
JA.	Journal of Anatomy
JAI.	Journal of the Anthropological Institute
JAR.	Journal of Anthropological Research
JAS.	Journal of the Anthropological Society
J.Arch.Sci.	Journal of Archaeological Science
JDANHS.	Journal of the Derbyshire Archaeological and Natural History Society
JE.	Journal of Ecology
JES.	Journal of Ethnological Society
JGS.	Journal of the Geological Society
JHMS.	Journal of the History of Metallurgy Society
JIA.	Journal of the Institute of Actuaries
JJHG.	Journal of Japanese Human Genetics
JMGS.	Journal of the Manchester Geographical Society
JMHRS.	Journal of the Merioneth Historical and Records Society
JRSAI.	Journal of the Royal Society of Antiquaries of Ireland
JRSS.	Journal of the Royal Statistical Society
JSS.	Journal of Soil Science
LT.	Lithic Technology
MA.	Monmouthshire Antiquary
MAS.	Memoirs of the Anthropological Society
M.Arch.	Monmouth Archaeology
MH.	Medical History
Mont. Coll.	Montgomeryshire Collections
MST.	Mathematical Systems Theory
N.Phyt.	New Phytologist
OJA.	Oxford Journal of Archaeology
Oxon.	Oxoniensia
PBNHS.	Proceedings of the Birmingham Natural History Society
PCAS.	Proceedings of the Clifton Antiquarian Society
P.Camb.AS.	Proceedings of the Cambridge Antiquarian Society
PCNFC.	Proceedings of the Cotteswold Naturalists Field Club
PDAS.	Proceedings of the Devon Archaeological Society
PG.	Progress in Geography
PGA.	Proceedings of the Geographical Association
PPS.	Proceedings of the Prehistoric Society
PPSEA.	Proceedings of the Prehistoric Society of East Anglia

PRIA.	Proceedings of the Royal Irish Academy
PRSL.	Proceedings of the Royal Society of London
PS.	Philosophy of Science
PSAL.	Proceedings of the Society of Antiquaries of London
PSANHS.	Proceedings of the Somerset Archaeological and Natural History Society
PTRS.	Philosophical Transactions of the Royal Society
PUBSS.	Proceedings of the University of Bristol Speleological Society
RC.	Radiocarbon
SAAB.	South African Archaeological Bulletin
SAC.	Sussex Archaeological Collections
SAF.	Scottish Archaeological Forum
SAR.	Scottish Archaeological Review
Sci.Am.	Scientific American
SGM.	Scottish Geographical Magazine
SNL.	Shropshire Newsletter
SLP.	Somerset Levels Papers
SR.	Sociological Review
TAAS.	Transactions of the Anglesey Antiquarian Society
TBAS.	Transactions of the Birmingham Archaeological Society
TBGAS.	Transactions of the Bristol and Gloucestershire Archaeological Society
TCAS.	Transactions of the Cardigan Archaeological Society
TCHS.	Transactions of the Caernarvonshire Historical Society
TCNS.	Transactions of the Cardiff Naturalists Society
TCSFC.	Transactions of the Caradoc and Severn Valley Field Club
TDHS.	Transactions of the Denbighshire Historical Society
TFHS.	Transactions of the Flintshire Historical Society
TGAS.	Transactions of the Glasgow Archaeological Society
THSC.	Transactions of the Honourable Society of Cymmrodorian
TBIG.	Transactions of the British Institute of Geographers
TRPS.	Transactions of the Royal Philosophical Society
TRS.	Transactions of the Radnorshire Society
TSAS.	Transactions of the Shropshire Archaeological Society
TSSAHS.	Transactions of the South Staffordshire Archaeological and Historical Society
TWS.	Transactions of the Worcestershire Archaeological Society
TWCAS.	Transactions of the Westmoreland and Cumberland Archaeological Society
TWNFC.	Transactions of the Woolhope Naturalist's Field Club
UJA.	Ulster Journal of Archaeology
VEHSRP.	Vale of Evesham Historical Society Research Papers

WA. World Archaeology
WAM. Wiltshire Archaeological and Natural History
 Magazine
WHR. Welsh History Review
WMANL. West Midlands Archaeological Newsletter

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* See page xvi for other abbreviations.

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PLATES

PLATE I.

Animal bone showing butchery marks. From Peak Camp (GLE 97).

Photo by T.C.Darvill.

Scale totals 2 cm.

PLATE II.

Animal bone showing evidence of butchery. From pit 5 at The Loder's, Lechlade (GLE 178).

Photo by T.C.Darvill.

Scale totals 5 cm.

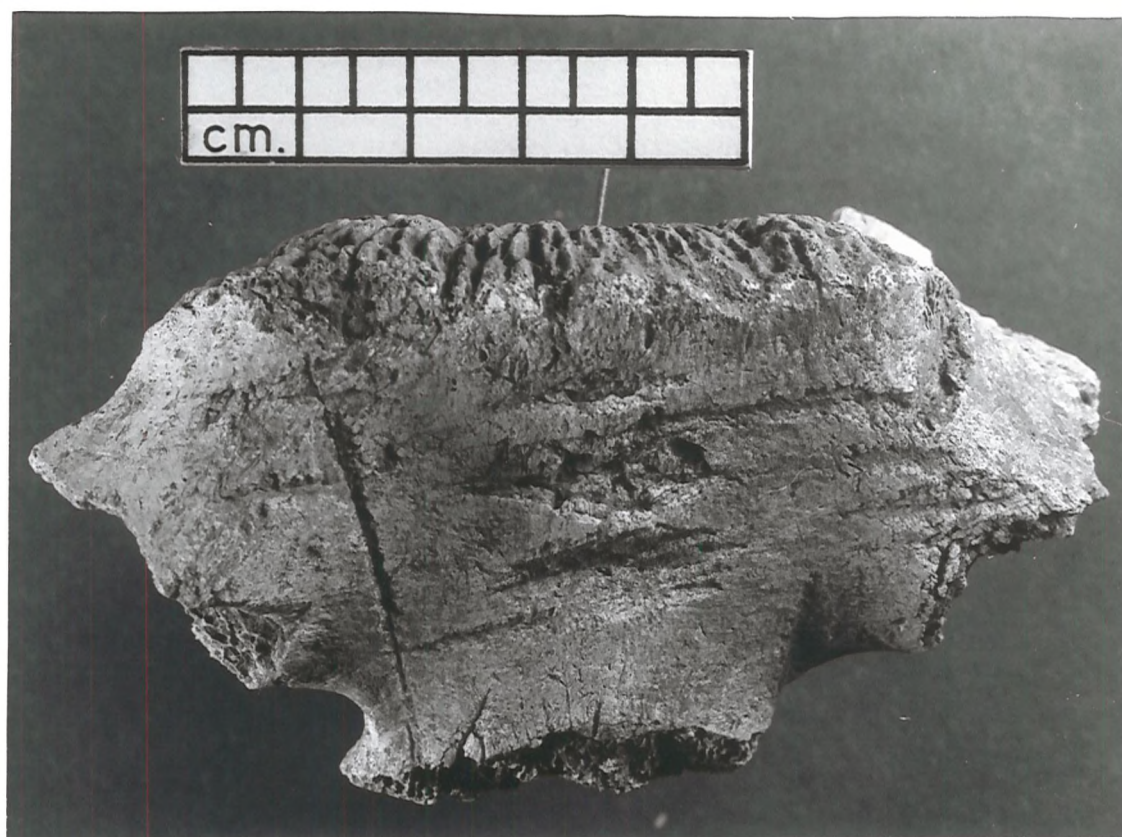
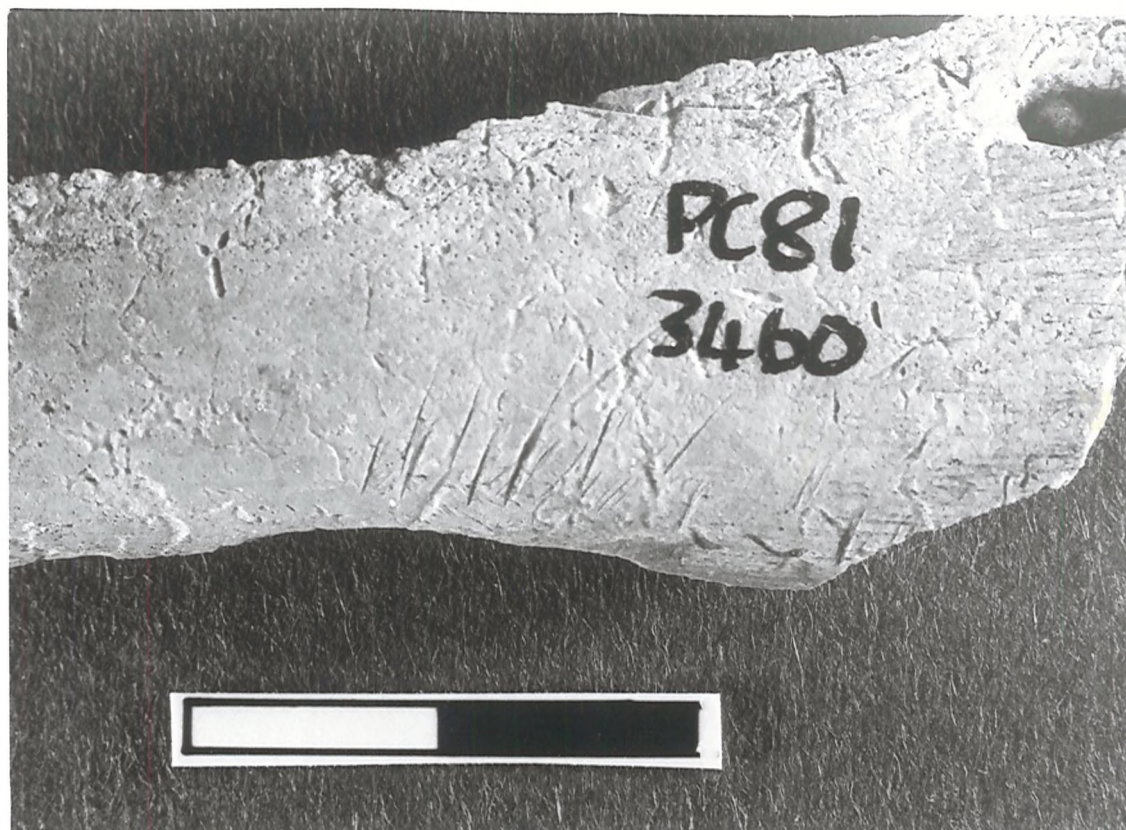


PLATE III.

Axe polishing bench on Overton Down (WI 232).

Photo by T.C.Darvill.

Scale totals 1 m.

PLATE IV.

Cutting through the enclosure earthwork at the Peak Camp (GLE 97) showing multiple re-cutting of the ditch. Looking west.

Photo by T.C.Darvill.

Scales: Upright scale totals 2 m., horizontal scale totals 1m.



PLATE V.

Flintworking "set" including hammerstone, flakes and core
found together in a pit at Roughground Farm, Lechlade (GLE 177).
Photo by T.C.Darvill.
Scale totals 10 cm.

PLATE VI.

Portal dolmen chamber at Dyffryn Ardudwy (GWD 187). Looking
north-west.
Photo by T.C.Darvill.
Scale totals 2 m.



PLATE VII.

Possible rotunda grave within the cairn at Tinkinswood (GL 149).

Looking south-east.

Photo T.C.Darvill.

PLATE VIII.

Simple passage grave at Carreg Samson (DY 274). Looking north-west.

Photo by T.C.Darvill.

Scale totals 2 m.



PLATE IX.

Transepted terminal chambered tomb with trapezoid mound in Parc le Breos Cwm (GL 96). Showing the valley bottom location and collapse caused by river encroachment - bottom centre.

Looking north-west.

Photo by T.C.Darvill.

Scale totals 2 m.

PLATE X.

Developed passage grave overlying a henge monument at Bryn celli Ddu (GWD 129). Looking west.

Photo by T.C.Darvill.

Scale totals 2 m.

