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Natural environment and human settlement in later prehistoric Central Europe

Volume II of II: bibliography and figures

Thesis by Bruce Michael Worthington Albert, in submission for a Doctorate of Philosophy,
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Fig. 1. Lužický potok, site distribution in inferred community areas circumscribed by limits of prime farmland (after Smrž 1994). Symbols employed indicate settlements (A), cemeteries (B), bronze hoards (C), quartzite mines (D) and hill-forts (E). Above patterns employed indicate surface and substrate types, including soils on lands of greater than 4 degrees incline (1), wet places and (status indeterminate) places under modern use (2), löss, the favoured soil substrate (3), and non-löss (4). Below patterns employed indicate (marginal) land-use classes (after Kuna and Slabina 1987), including steep lands of greater than 4 degrees incline (1), otherwise suitable arable land greater than 300 m from a drainage (2), under modern use (3), wet places (4) and optimal community areas for prehistoric farmers (5). Note circumscription of most prehistoric sites to land-use Class 5. Smrž's division between community areas A and E is arbitrary.

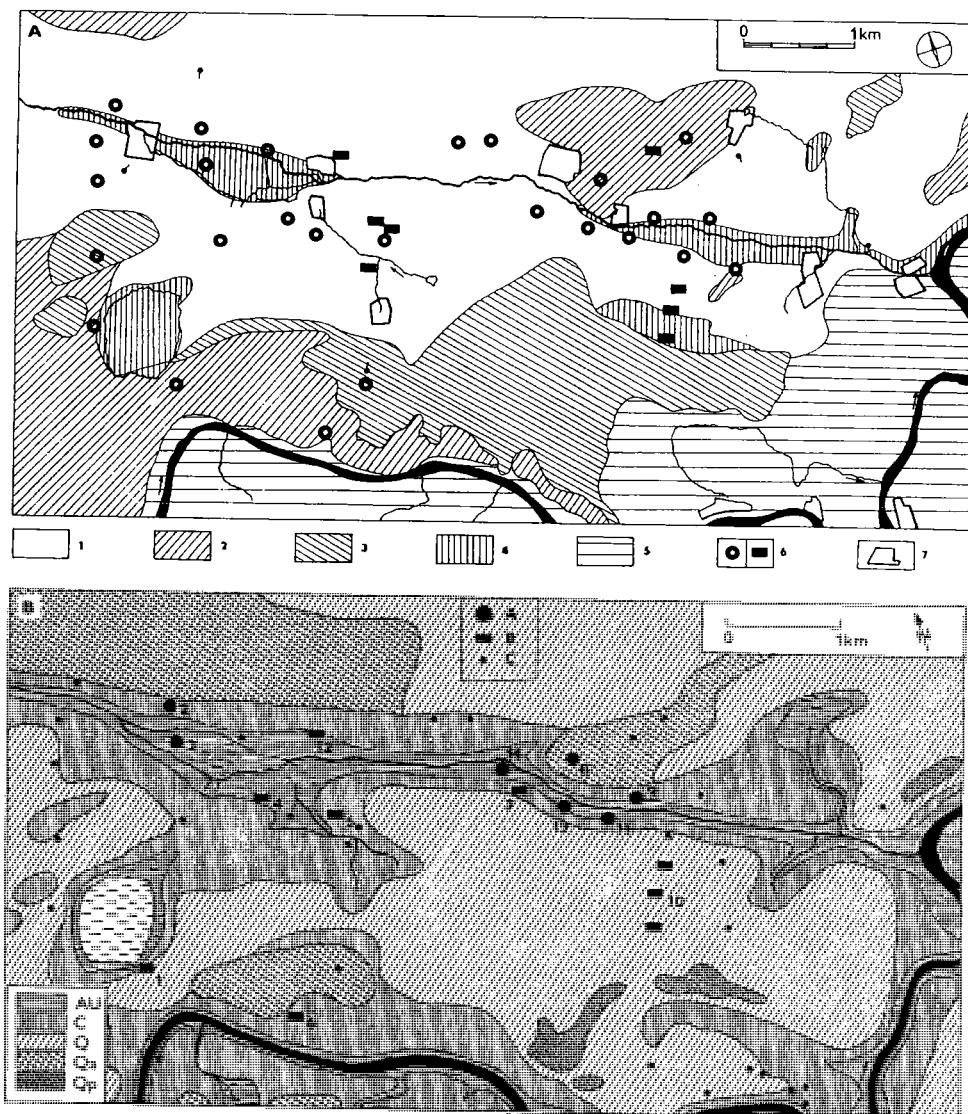


Fig. 2. Lužický potok, distribution of natural woodland communities (after Kyncl 1987 a, b). Communities include alluvial woodland (AU) in valley bottoms, oak-hornbeam woodland (C) largely on northern exposures, sub-xerophile mixed-oak woodland (Q) largely on southern exposures, forest-steppe (Qp) on basaltic outcrops (western basin) and acido-phile oak woodland (Qa) on poorer soils (after Kyncl 1987 a, b). Prehistoric use of the alluvial woodland may reflect proximity of community areas to unit AU, or an expansion of the unit itself as a result of agricultural or natural adaptations to cooler wetter climate. Note that unit AU is favoured periodically during the Late Eneolithic (site 21, Čachovice), the Hallstatt C period (site 9, Vrchnice) and to a lesser extent, during Hallstatt B1 (site 26, Přezetice). Use of acido-phile oak woodland (Qp) may be favoured by extensive land-use which incorporates more marginal soils, or the promotion of degraded woodland through intensive land-use. Prior to the Middle Ages, this unit is exploited only during the Knovíz Urnfield (Late Bronze Age) period (sites 14-5, Prahly and Tušemice).



Fig. 3. Lužický potok, rotation of Knovíz (I-VI) to Štíty (I-III) Urnfield settlement in western part of basin as determined by the specific periodisation of ceramic finds (after Smrž 1987a, b). Settlement site 9 (Vrchnice) is occupied during the Early Knovíz period (I-III). Settlement transfers to site 11 (Přezetice) during the later Knovíz period (IV-VI), partially contemporary with settlement site 13 (Prahly) which is occupied during Knovíz III-V. Settlement then shifts to sites 6 and 8 (Milžany area) during the Knovíz VI-Štíty I interface, contemporary with cemetery site 7 (Milžany). Finally, settlement returns to the Přezetice area (site 12) during the terminal Štíty period (II-III), contemporary with cemetery site 10 (Vrchnice area near initial Knovíz settlement site).

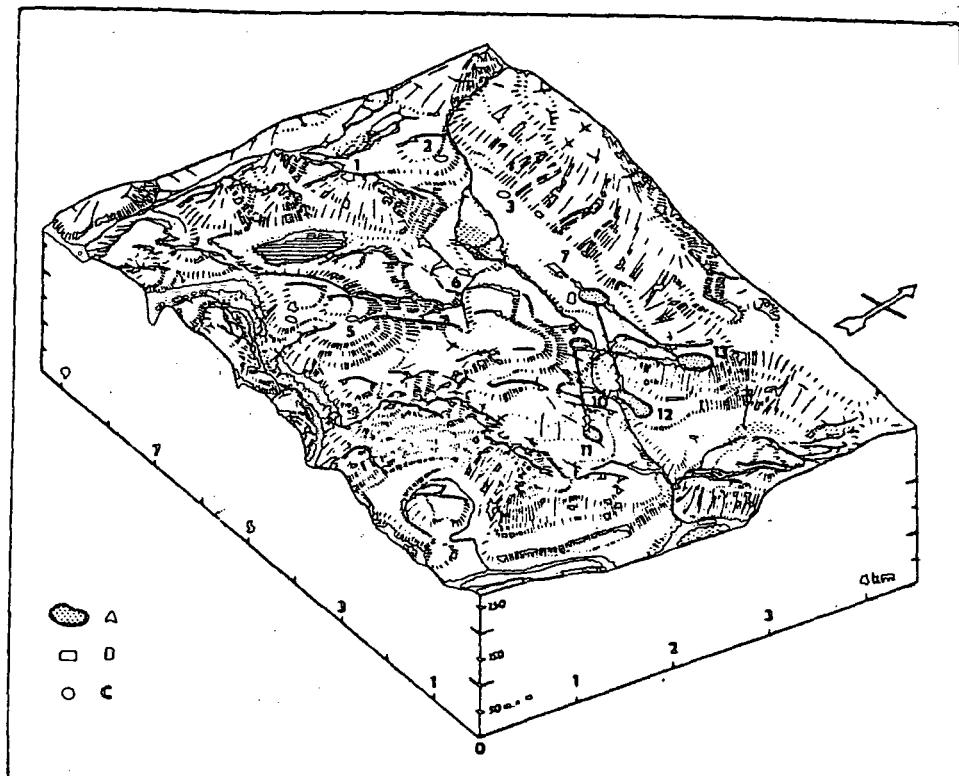


Fig. 4. Lomský potok, settlement of the Middle Bronze Age to La Téne periods (after Beneš 1991). Occupation is indicated by inscribed diagonal lines to date to the Middle Bronze Age (HGK), Late Bronze Age (KK), Hallstatt C-D (HZ), and La Téne periods (LTZ) as reflected in multi-cultural (large squares) and single component (small squares) sites. Note the small volume of Middle Bronze Age settlement, as well as the restriction of finds to multi-cultural sites. The volume of La Téne period settlement is much greater in the Lom basin than at Lužický potok, underlining the potential for inter-basin differences in the expression of the settlement cycle at this spatial scale. Most La Téne settlement in both basins consists of small hamlets or cemeteries. Note then the presence of the large La Téne cemetery (with ca. 130 graves) at Jenišův Újezd within the Lom basin.

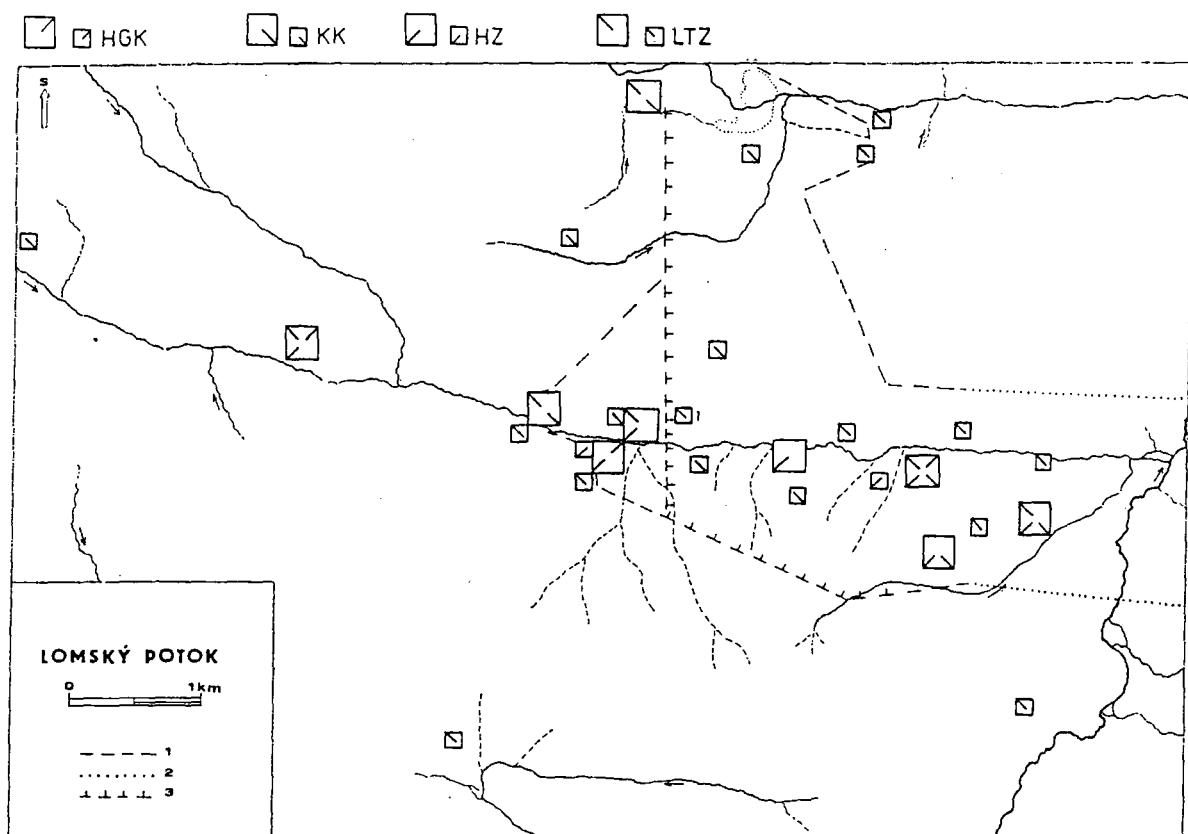


Fig. 5. Únětický potok, Early Bronze Age settlement (adapted from Kuna and Slabina 1987).

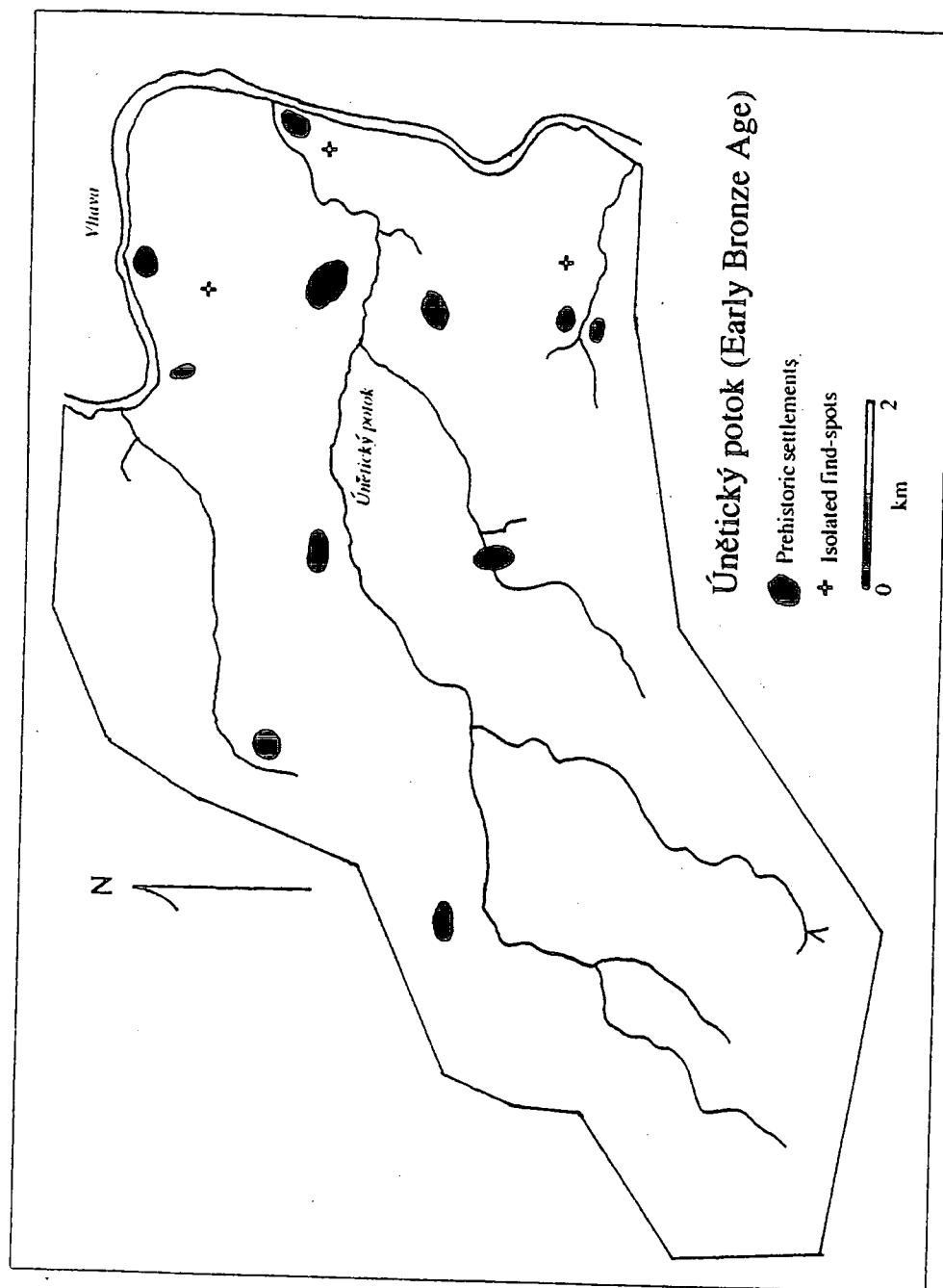


Fig. 6. Únětický potok, Middle Bronze Age settlement (adapted from Kuna and Slabina 1987). Note the small volume of settlement evidence, which highlights the decline in community area occupation noted by Kuna and Slabina at this time.

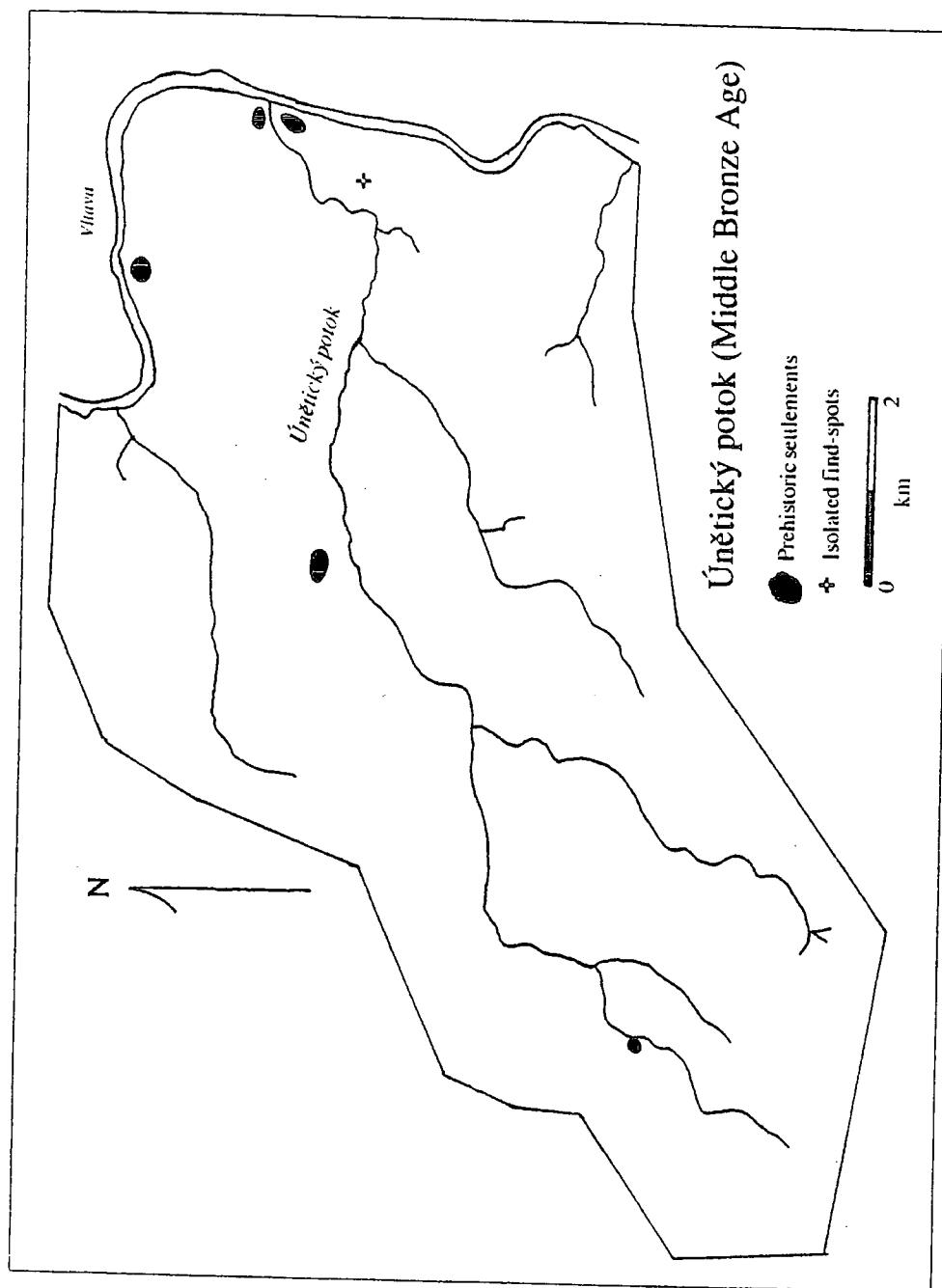


Fig. 7. Únětický potok, Late Bronze Age settlement (adapted from Kuna and Slabina 1987). Note this maximum expression of settlement intensity is accompanied by a maximum spread of community area habitation (cf. Fig. 8 A).

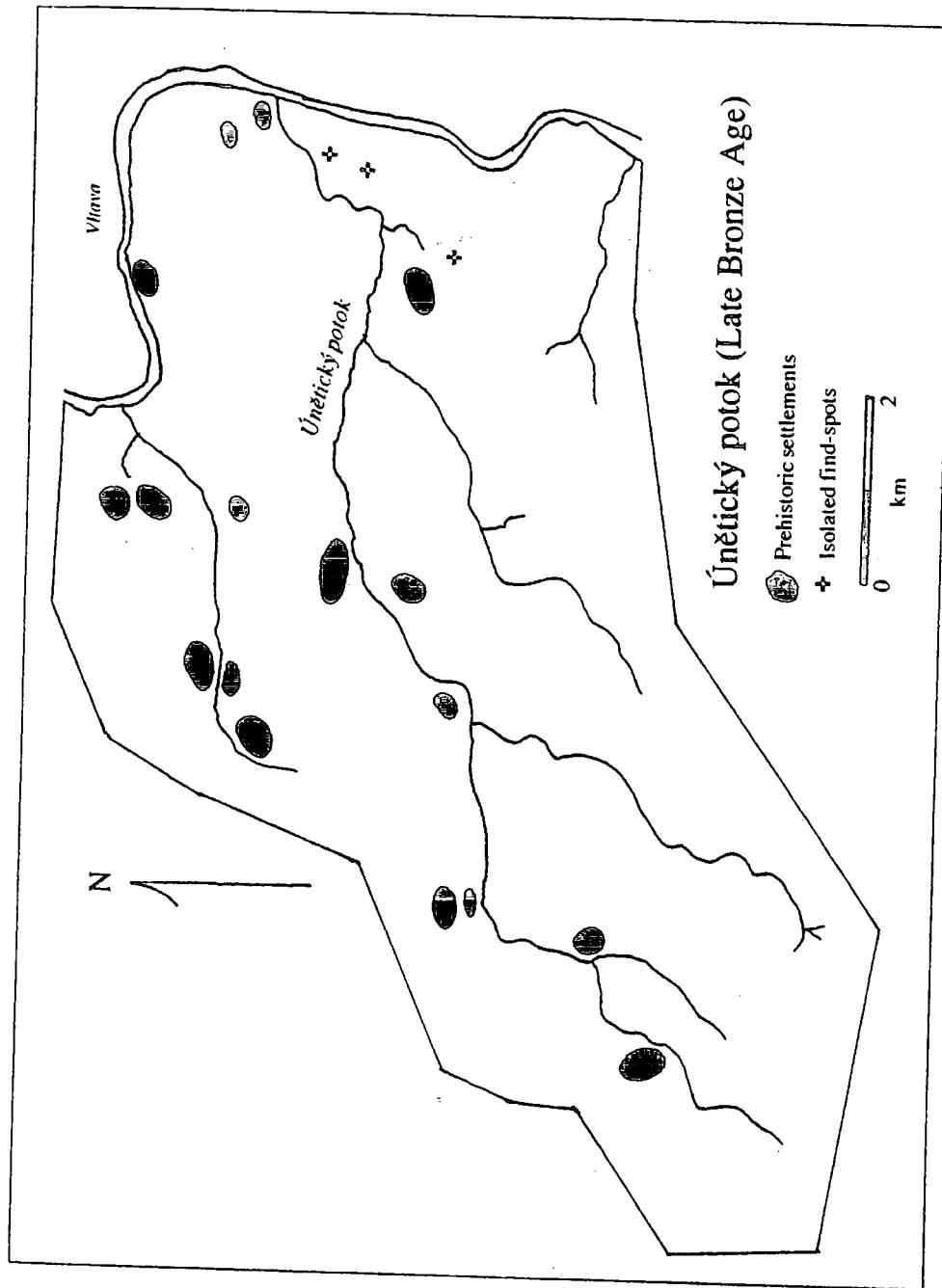


Fig. 8. Vinořský potok, settlement areas of the Late Bronze Age (A), Hallstatt C (B) and Late Hallstatt (C) periods (after Kuna 1991, note that the Late Bronze Age settlement area is mis-captioned in this publication).

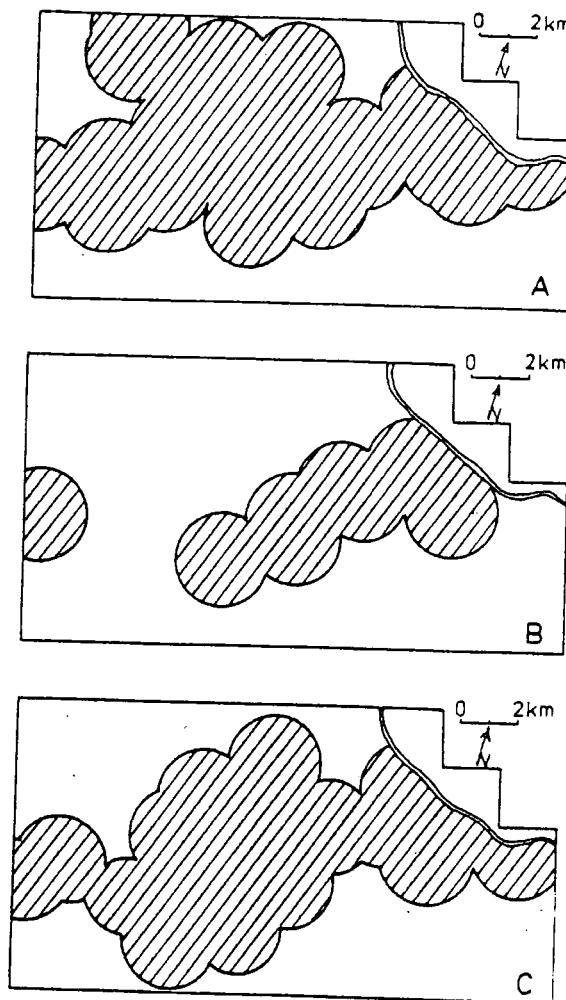


Fig. 9. Vinořský potok, community areas of the Late Hallstatt-Early La Tène periods (above) and Middle to Late La Tène periods (below) as circumscribed by Theissian polygons (after Kuna 1991). Larger circles designate highly concentrated finds (filled circles represent sites bounded by drainages on two sides, but not true hill-forts), while smaller circles represent low concentrations of finds. Note the low concentration of Middle to Late La Tène finds.

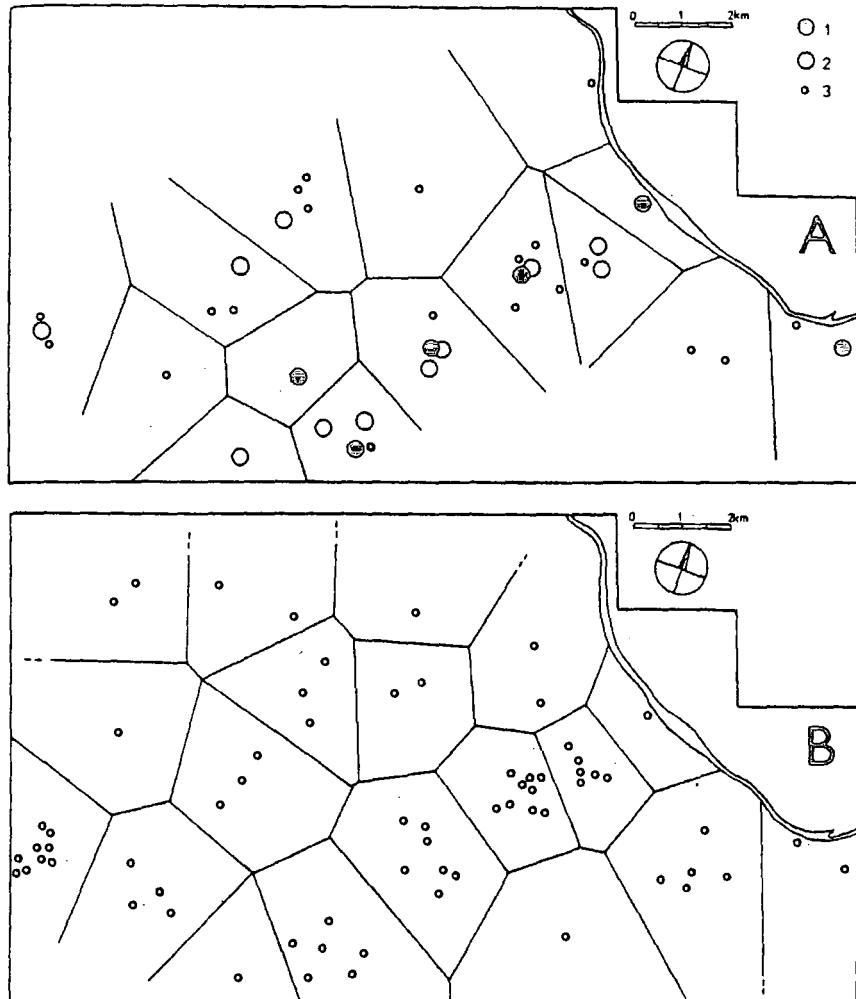


Fig. 10. Vinořský potok, community areas of the Roman period as circumscribed by Theissian polygons (after Kuna 1991). Note the larger community areas defined by central concentrations of finds. Note that earlier prehistoric linkage of community areas to the fluvial dendritic network is reduced.

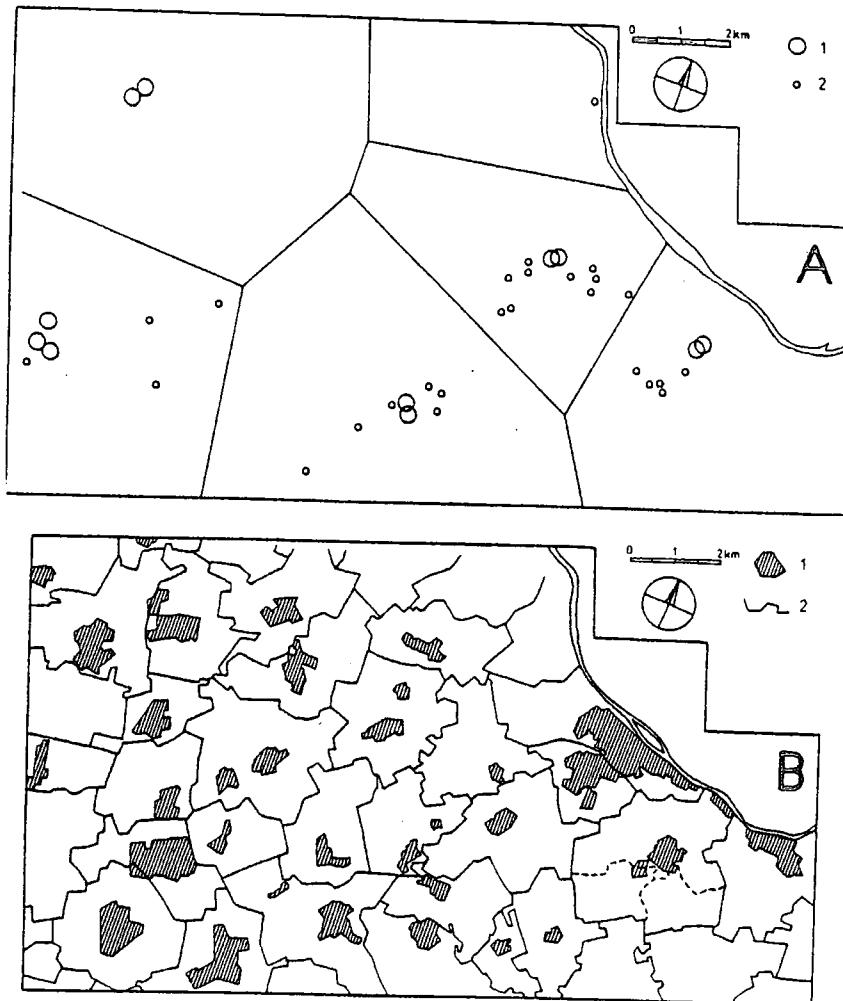


Fig. 11. Cham (encircled stars) and Řivnáč Culture (other symbols) settlement of Bohemia (after Ehrich and Pleslová-Štichová 1968). Note the restriction of the Cham Culture to the Southwest Bohemian uplands. This sub-optimal agro-climatic region is entirely abandoned during the Corded Ware, Bell Beaker (Late Eneolithic) and Earliest Bronze Age periods (cf. Fig. 14). Site no. 164 denotes the micro-regional cluster at Vraný (cf. Fig. 36).

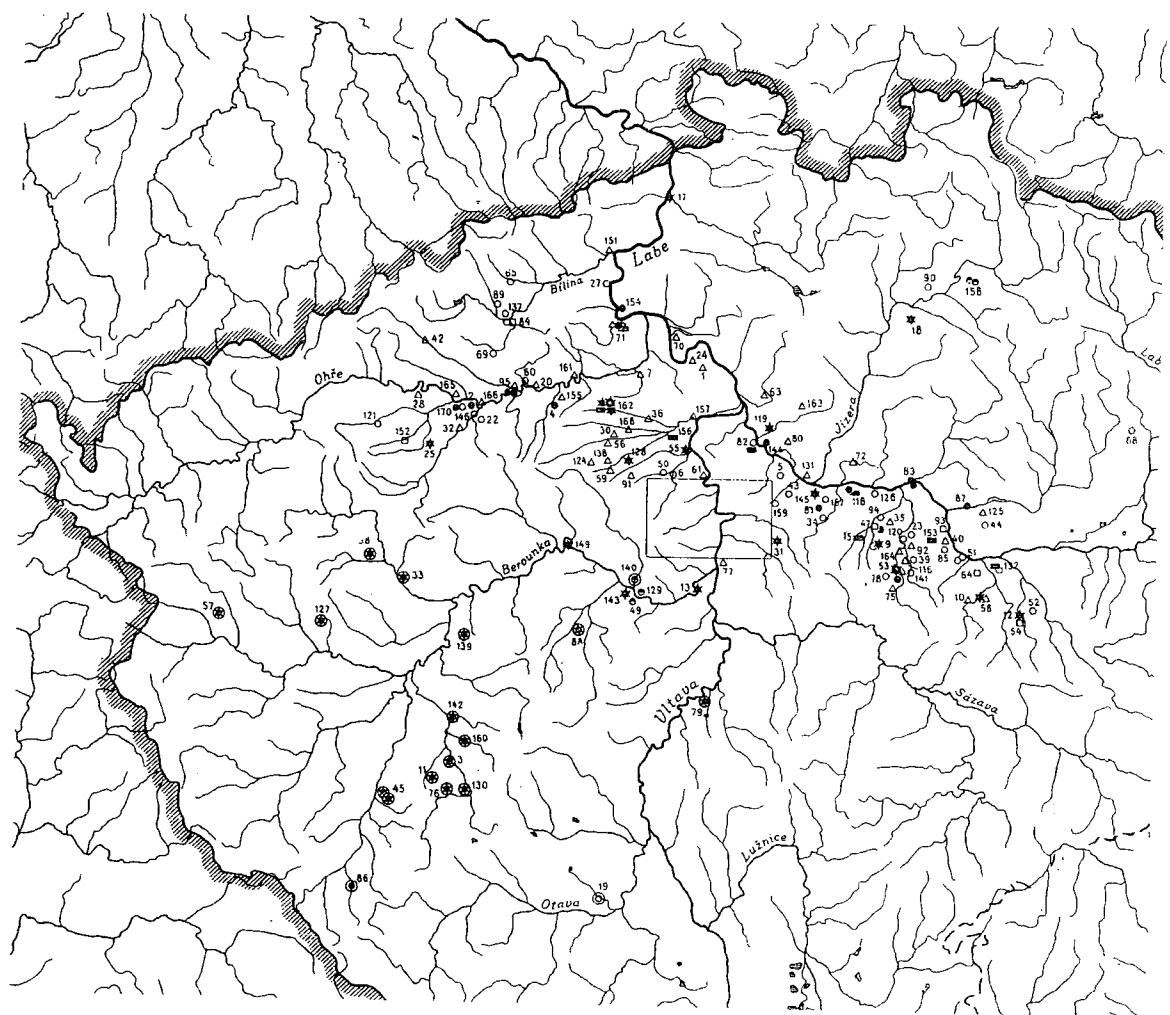


Fig. 12. Řivnáč Culture settlement of Prague region from Kladno to Prague-East (after Ehrich and Pleslová-Stichová 1968). This region of higher archaeological recovery reveals a pronounced concentration of Middle Eneolithic settlement into micro-regional clusters. Not all of sites will be contemporary after the data pattern at Vraný (site no. 164 above, cf. Fig. 38). Site no. 134 denotes the micro-regional cluster at Homolka (Stehelčevy).

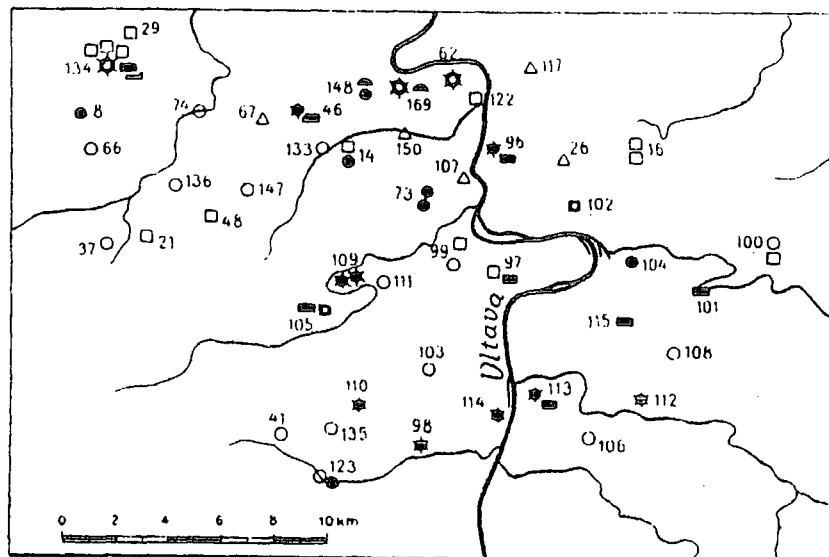


Fig. 13. Late Eneolithic Corded Ware Culture, finds of (earlier) Group II faceted hammer-axes (above) vs. finds of (later) Group III hammer-axes of the Bohemian type (after Buchvaldek 1986b). Note the relative concentration of Group II finds in Northwest Bohemia, away from centre of Řivnáč cultural distribution, and the more pan-Bohemian distribution of Group III finds.

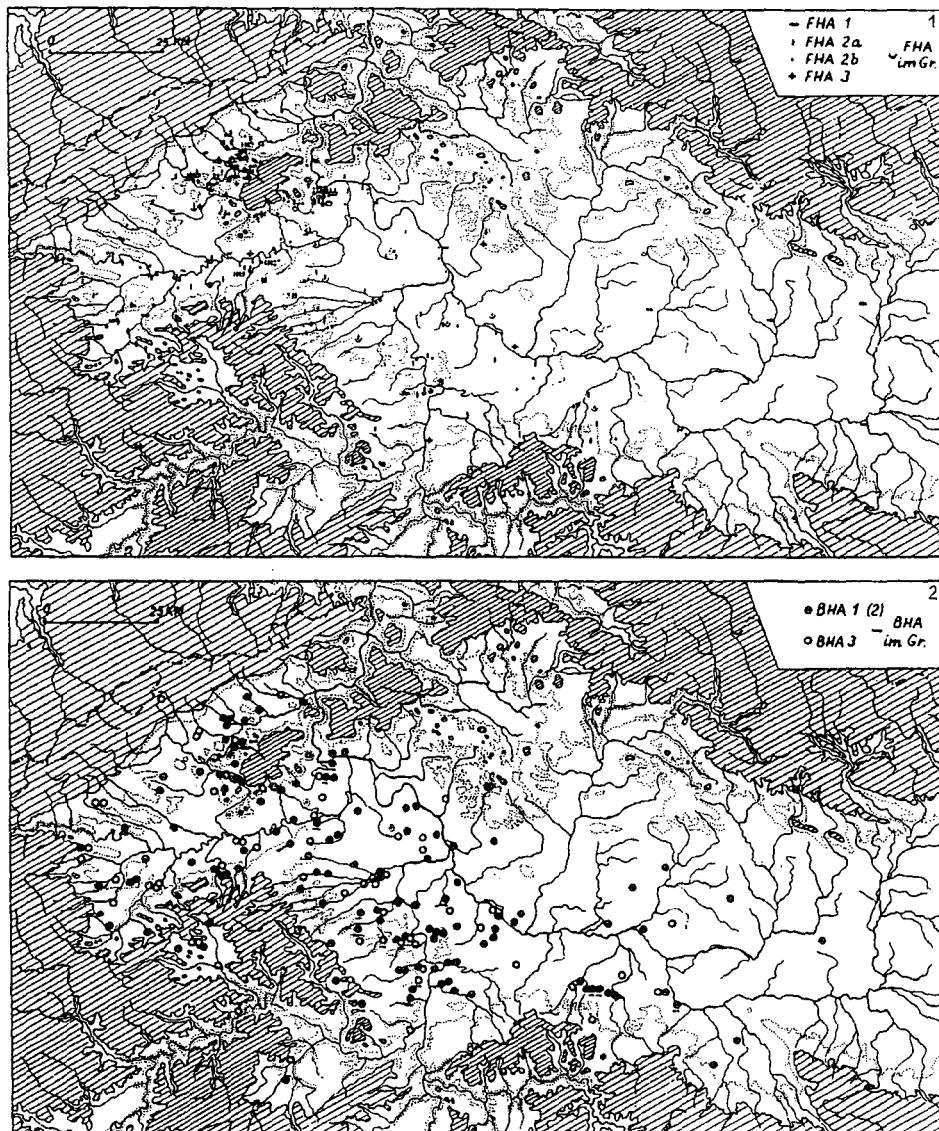


Fig. 14. Bodensee, composite diagram of tree-ring dates from 82 lakeshore settlements (after Rösch 1988). Note secular periodicity of the Early Eneolithic oscillations. A pronounced Middle Eneolithic peak in dendro-dates reflects an emphatic periodic low in the lake level. A long duration of wet conditions between the Corded Ware and Early Bronze Age is broken by a moderate peak coeval with the Classical Early Bronze Age in the Czech and Slovak Republics (Late Únětice and Věteřov-Mad'arovce Cultures). Relatively cool and wet conditions reappear with the Middle Bronze Age, contemporaneous with the Loebben neo-glaciation in the Swiss and Austrian Alps. A final peak, reflecting dry conditions, appears during the Urnfield Bronze Age. Lakeshore settlements on the Bodensee are then abandoned at the beginning of Hallstatt C (after 838 BC).

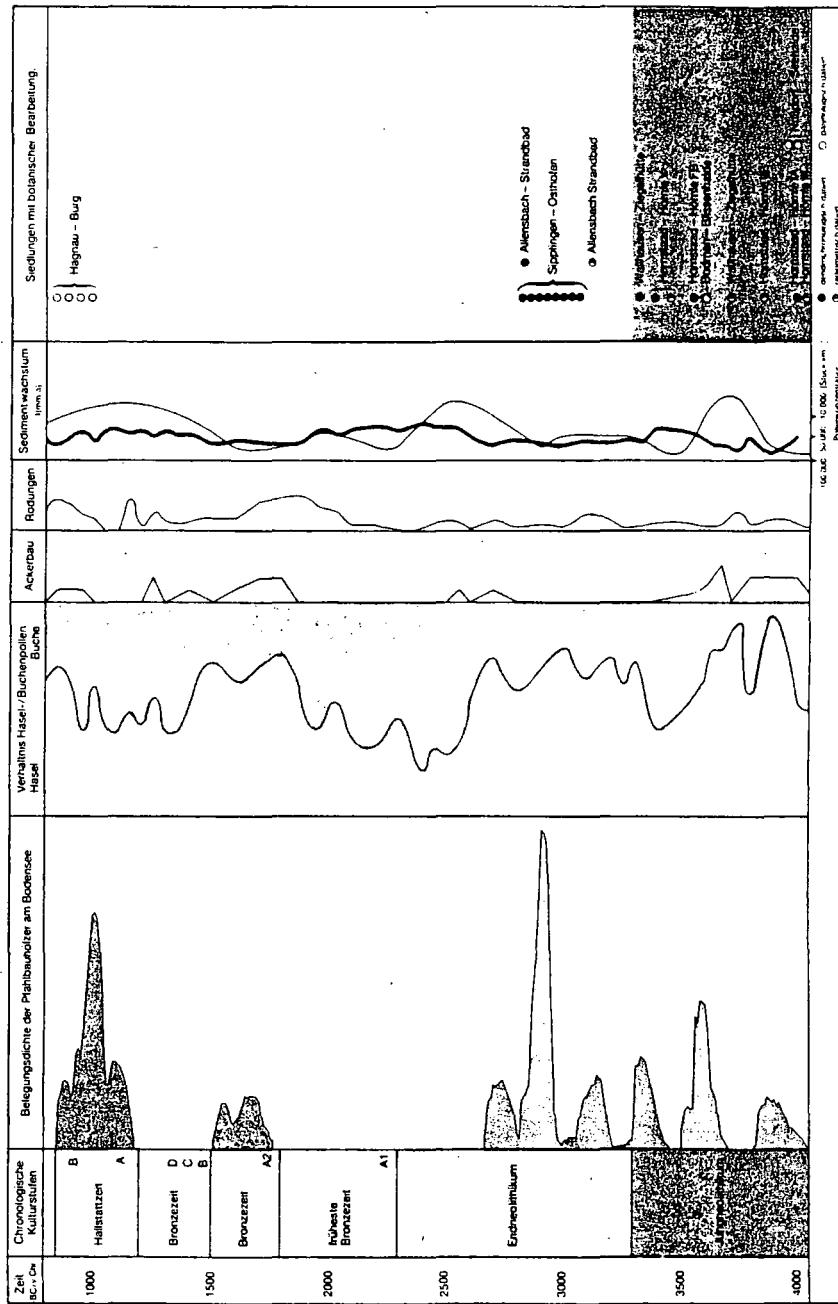


Fig. 15. Swiss lakes, composite diagram of tree-ring dates from Late Bronze Age lakeshore settlements (after Bouzek 1990). The sequence is less compressed than that presented from Bodensee, and clearly illustrates a decline in dendro-dates of the Hallstatt B1 period (cf. Fig. 2, site 26, Pfezalice), indicative of a wetter interval during the long Urnfield period. Note that Figs. 14-15 are based on a compilation of several thousand dendro-dates.

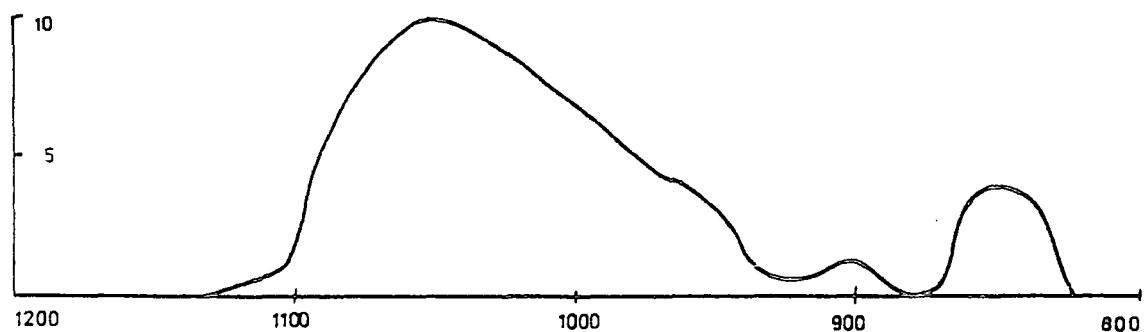


Fig 16. Moisture-dependent organic sedimentation curves from the Zbudovská blata marshes and Řežabinec fishpond (after Rybníček 1989). Note the increased rate of sedimentation beginning in Firbas Zone IX (First Millennium BC).

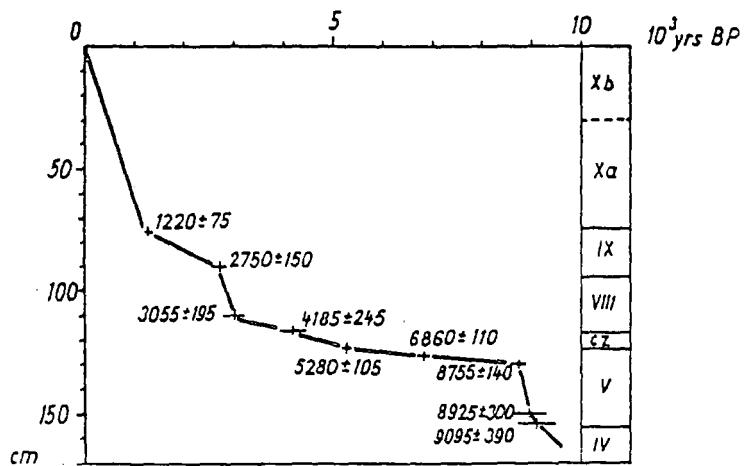
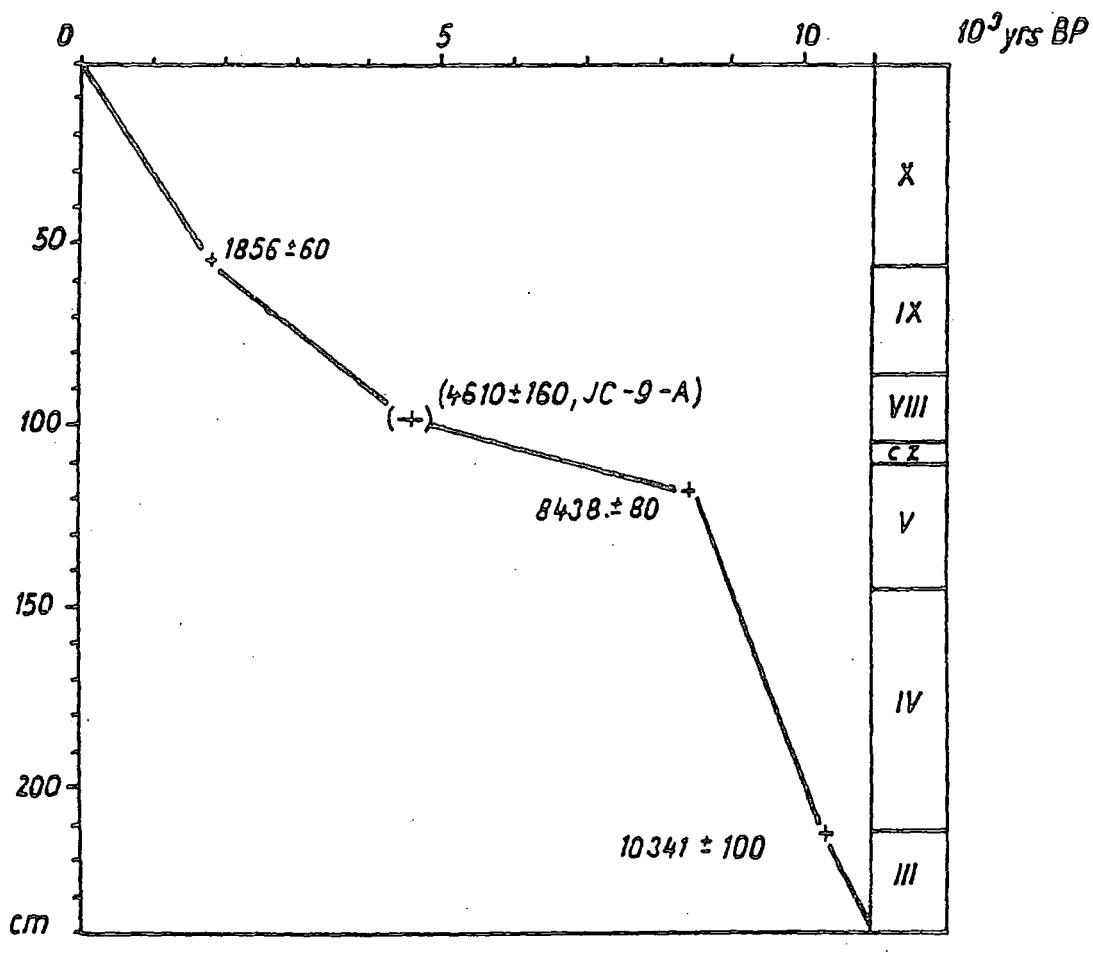


Fig. 17. Palaeo-environmental sites and select micro-regions in Bohemia.

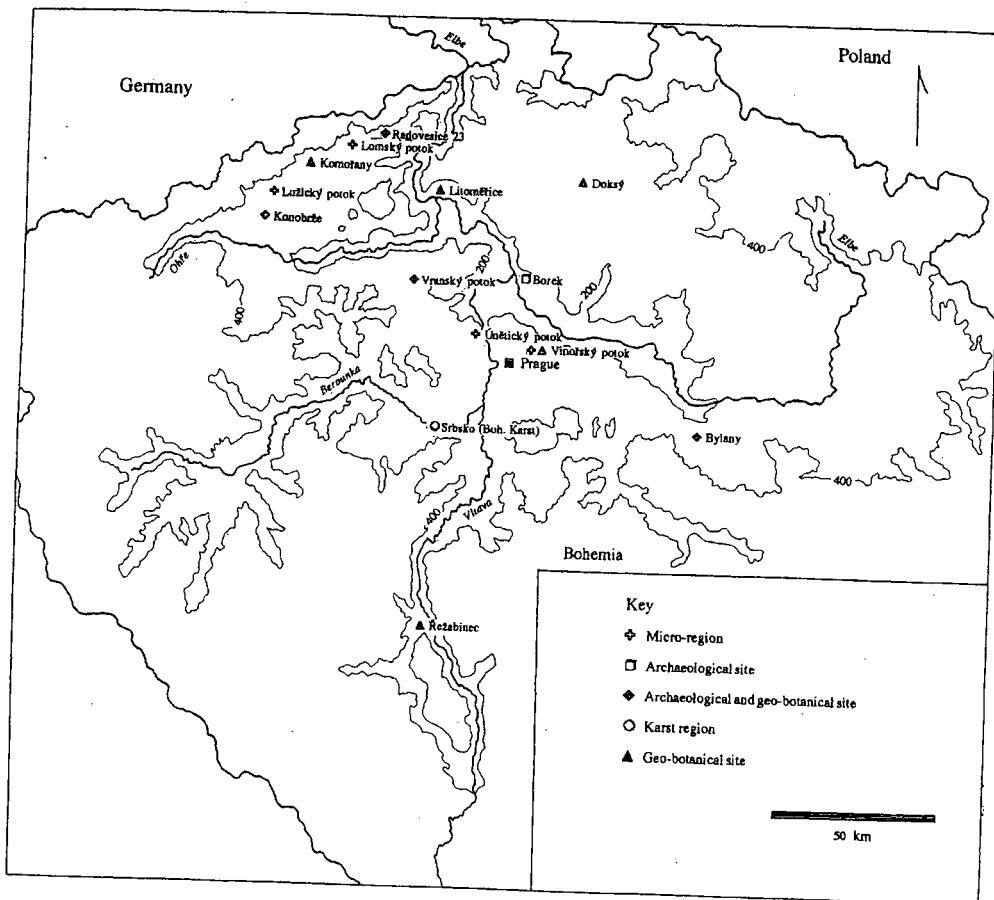


Fig. 18. Palaeo-environmental sites in Moravia and Slovakia.

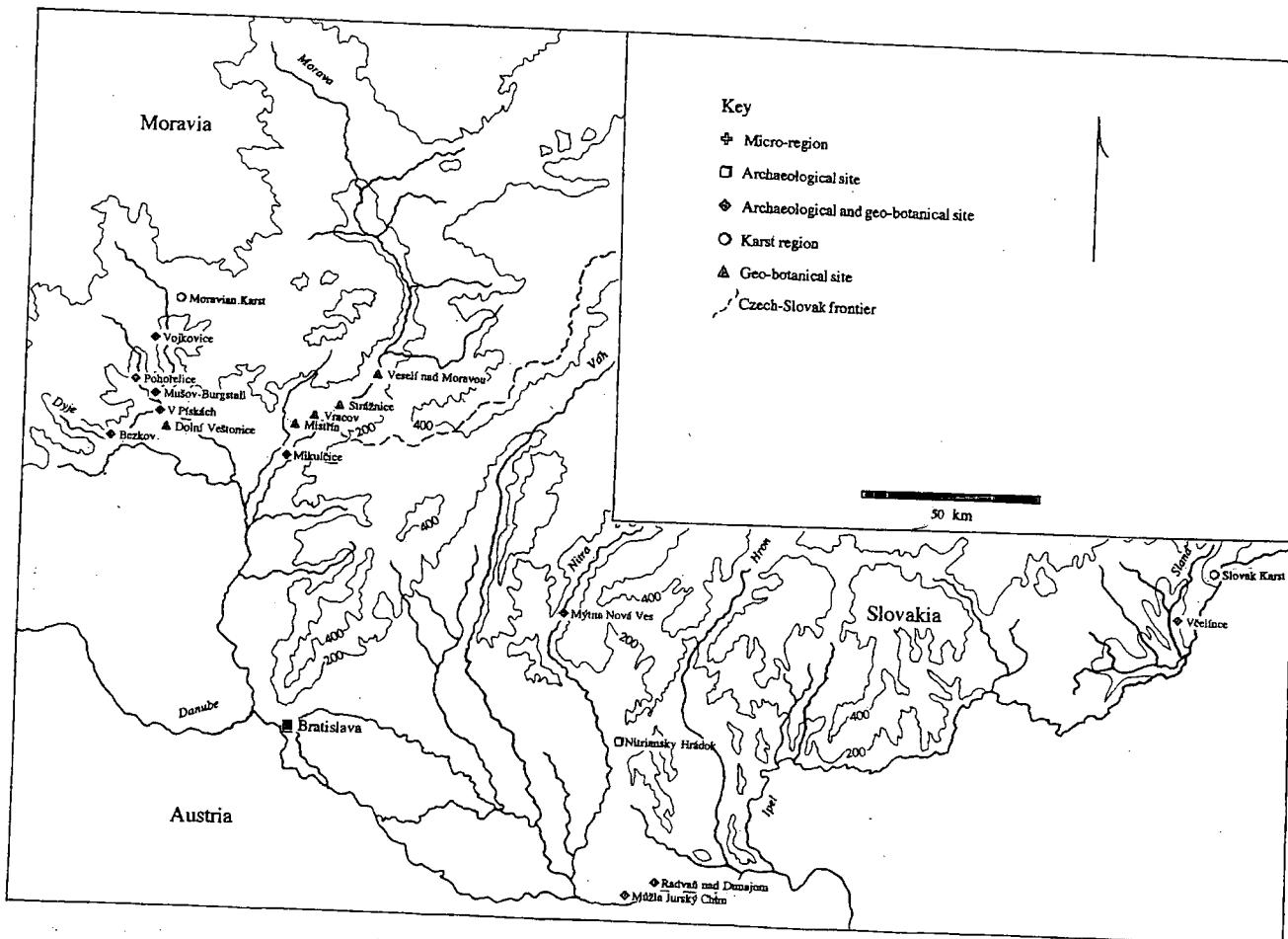


Fig. 19. Pollen diagram from Komořany Pk-1d, Northwest Bohemia (after Jankovská 1988a). Note the hiatus beginning in the Late Bronze Age and the poverty of syn-anthropic pollen until the Middle Ages.

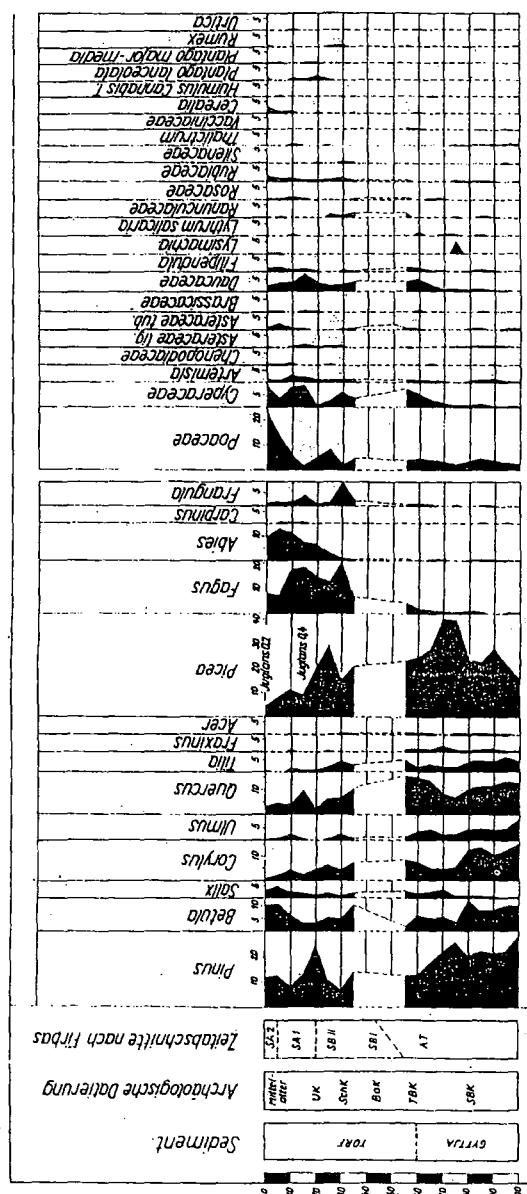


Fig. 20. Pollen diagram from Mistřín, South Moravia (after Svobodová 1989). Note a dramatic alder decline in tandem with an early cereal peak in the middle of the Sub-boreal sequence (before 1400 uncal. BC, cf. Classical Early Bronze Age sequence).

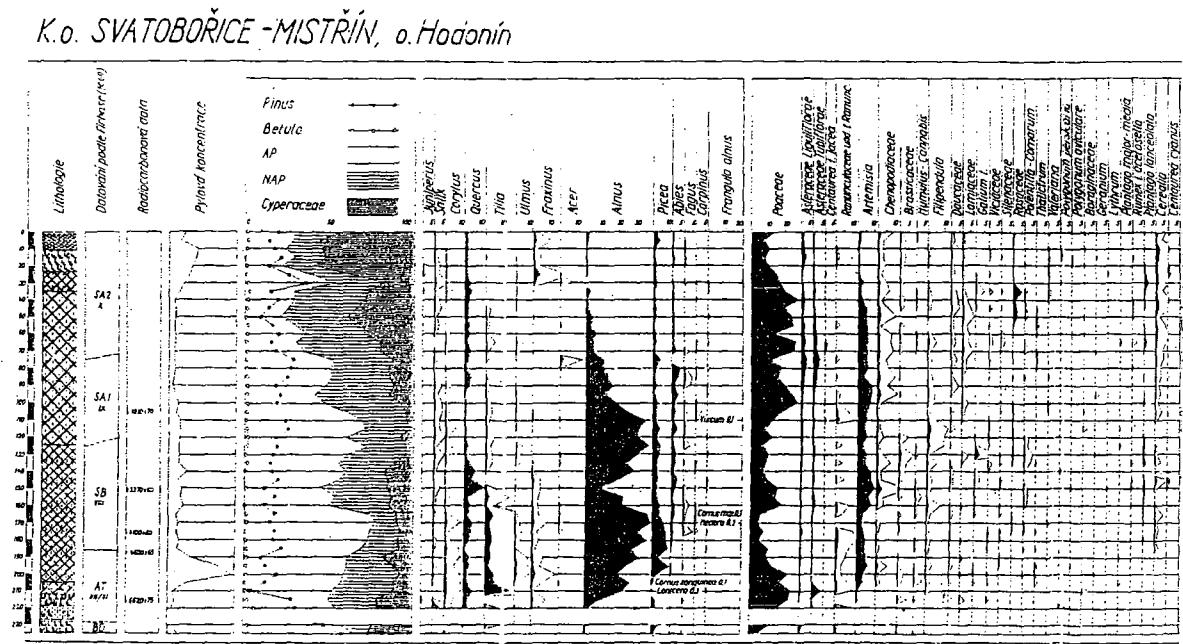


Fig. 21. Komořany lake, location of geo-botanical site.

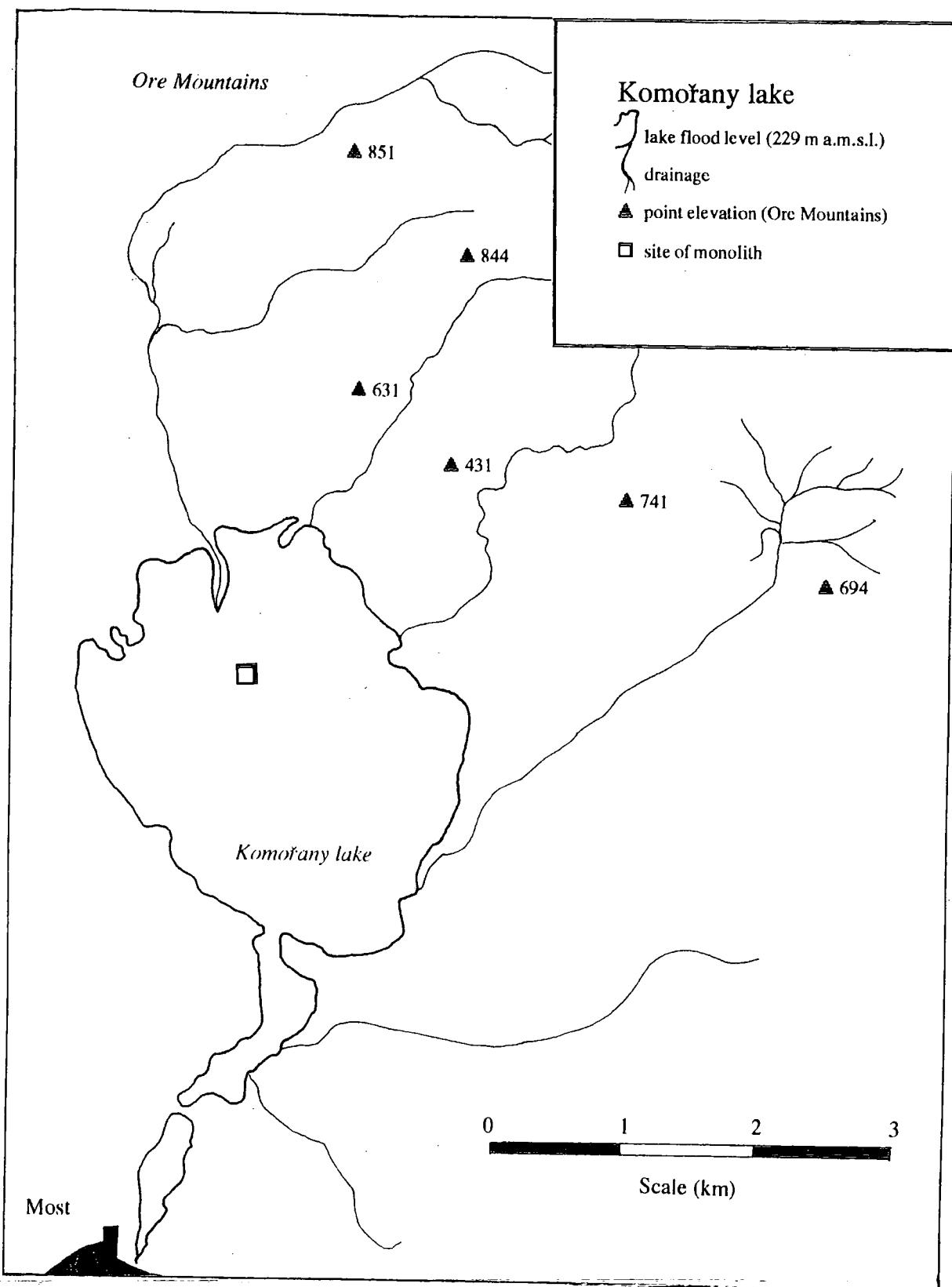


Fig. 22. Komorany stratigraphy

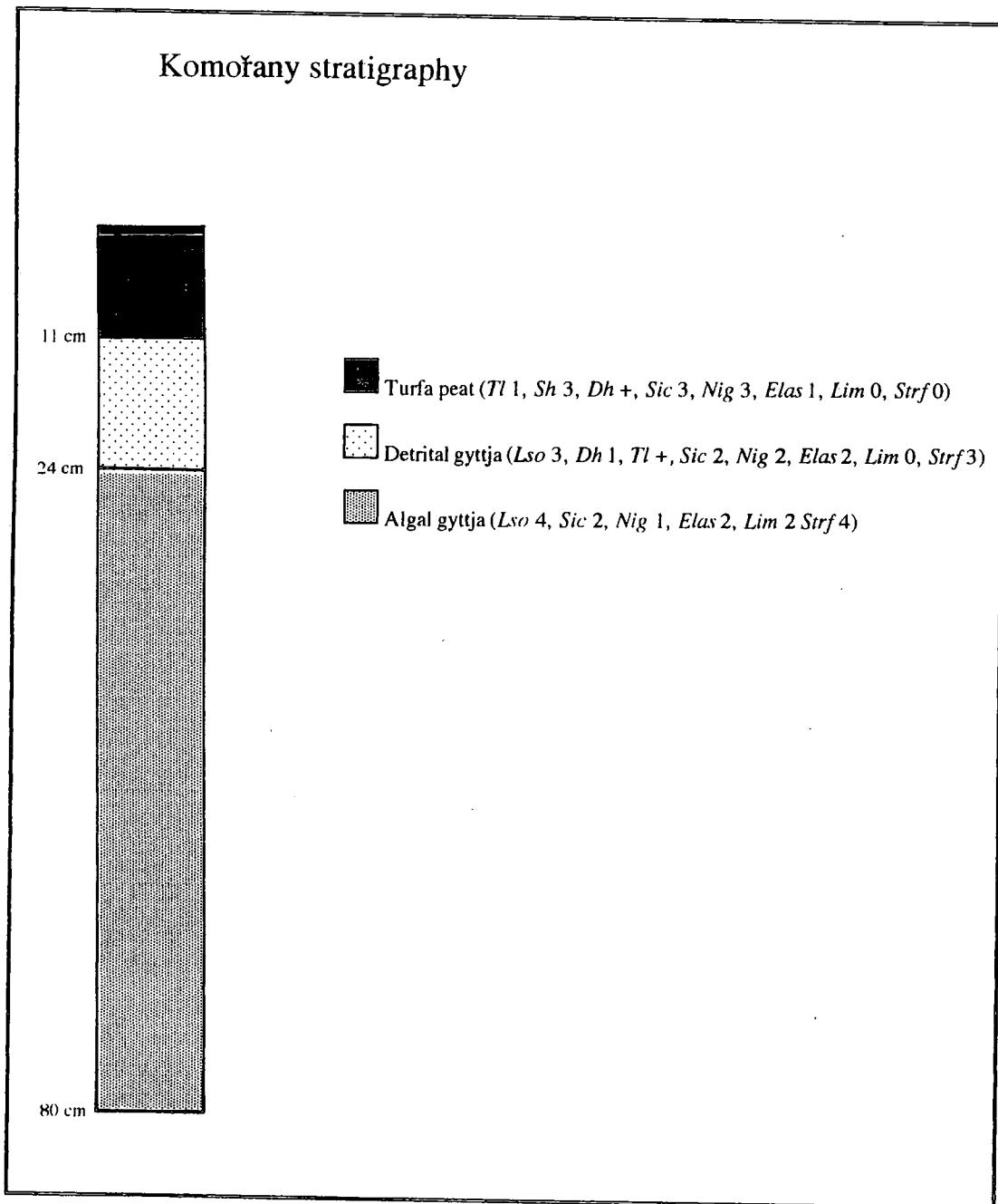


Fig. 23. Komorany pollen diagram

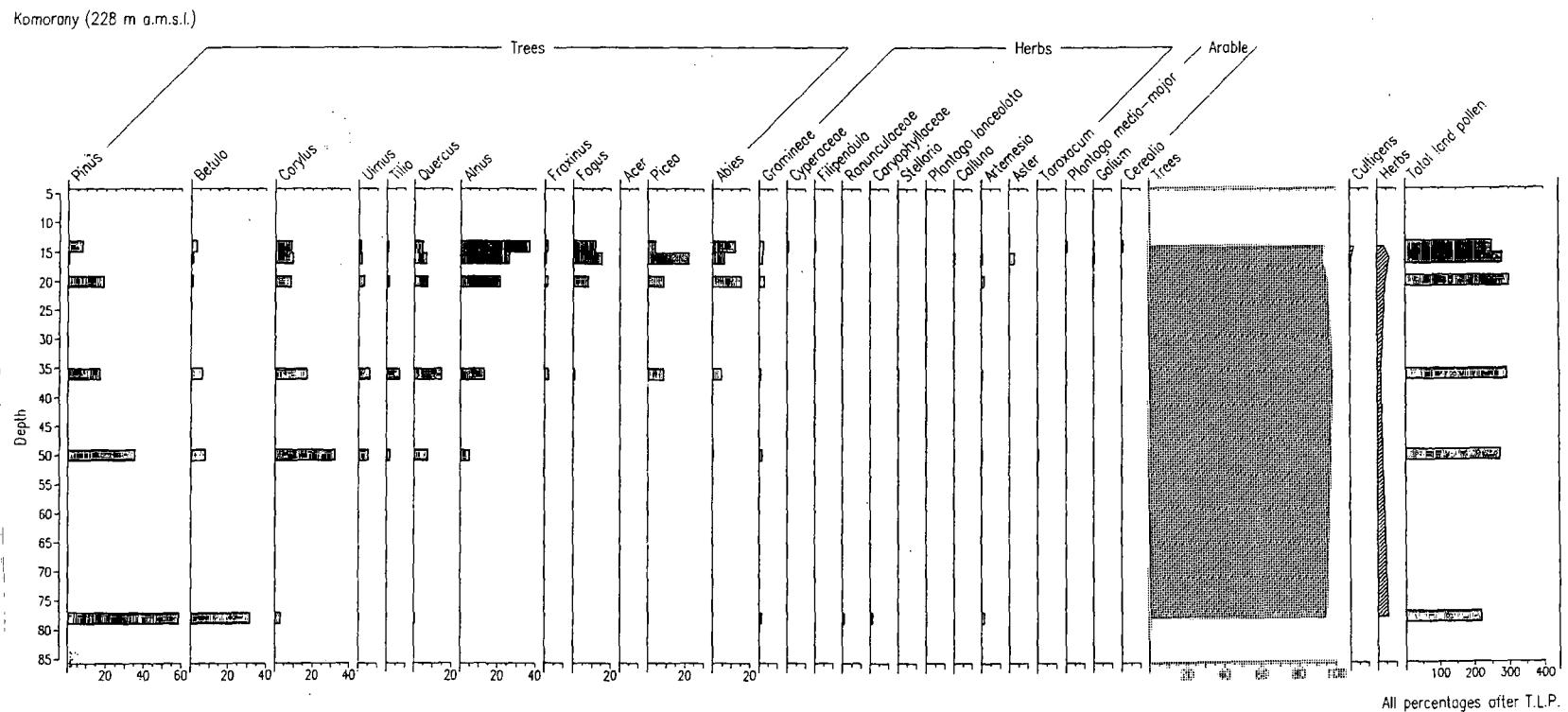


Fig. 24. Bylany 1, location of geo-botanical site.

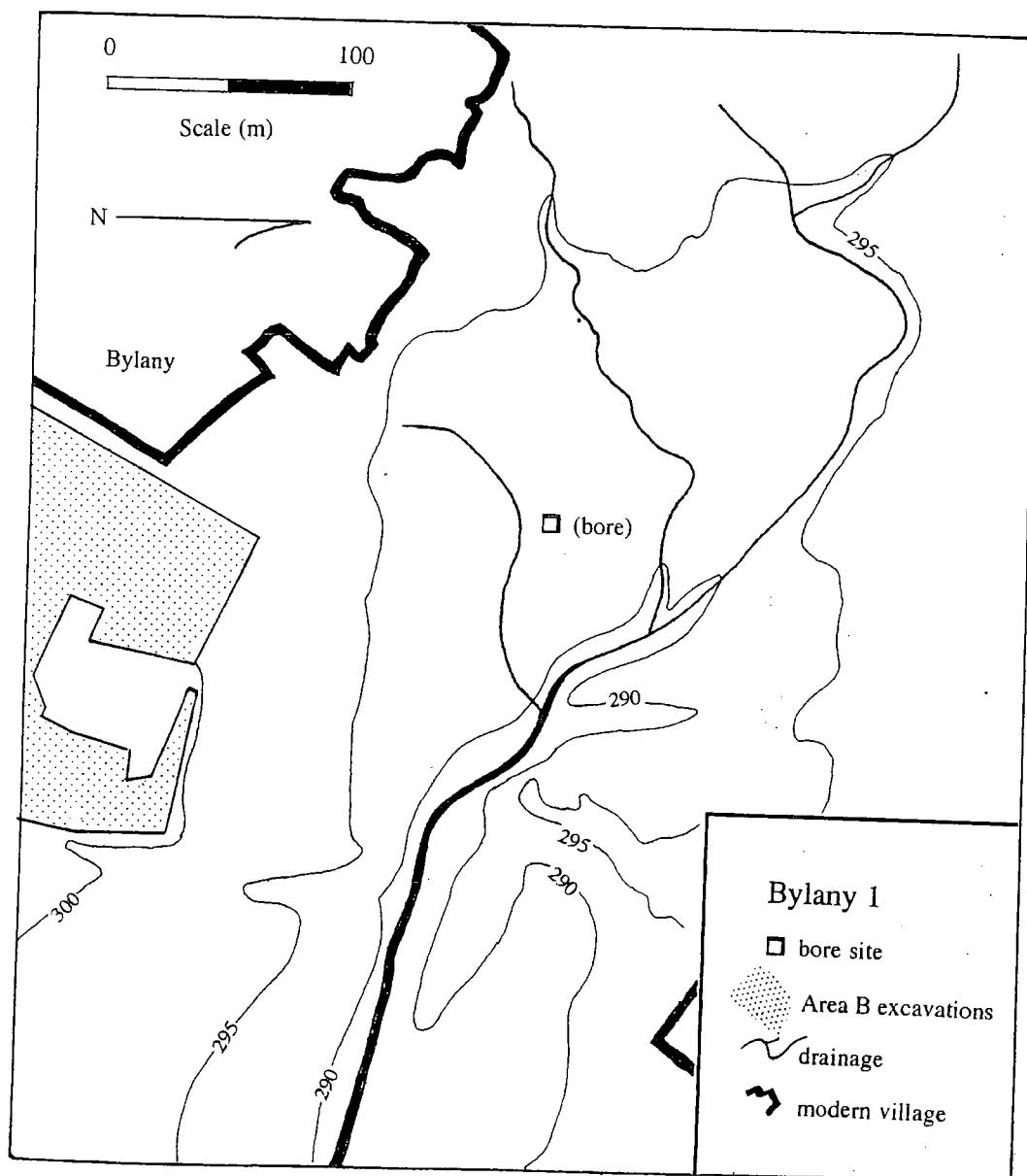


Fig. 25. Bylany 1 stratigraphy.

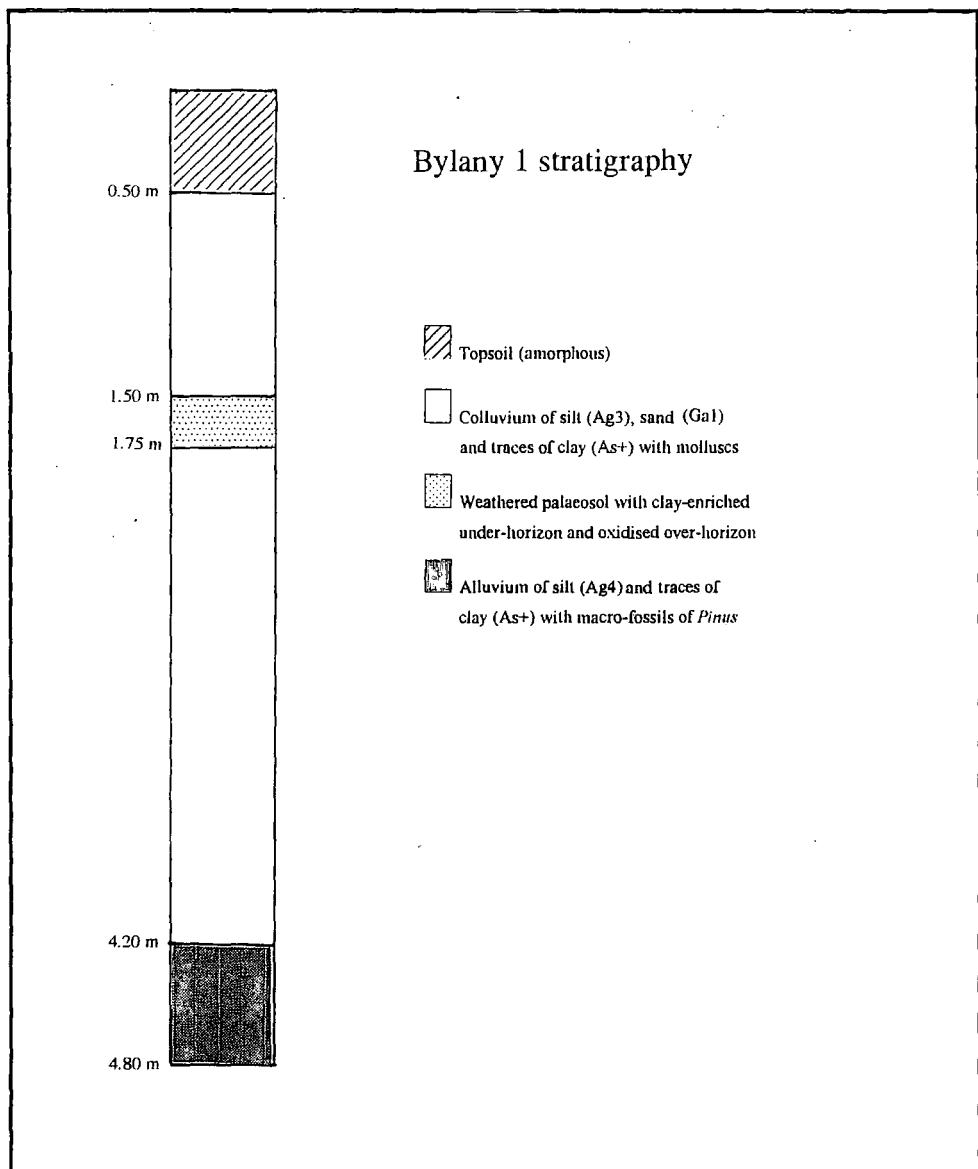


Fig. 26. Bylany 1 pollen diagram.

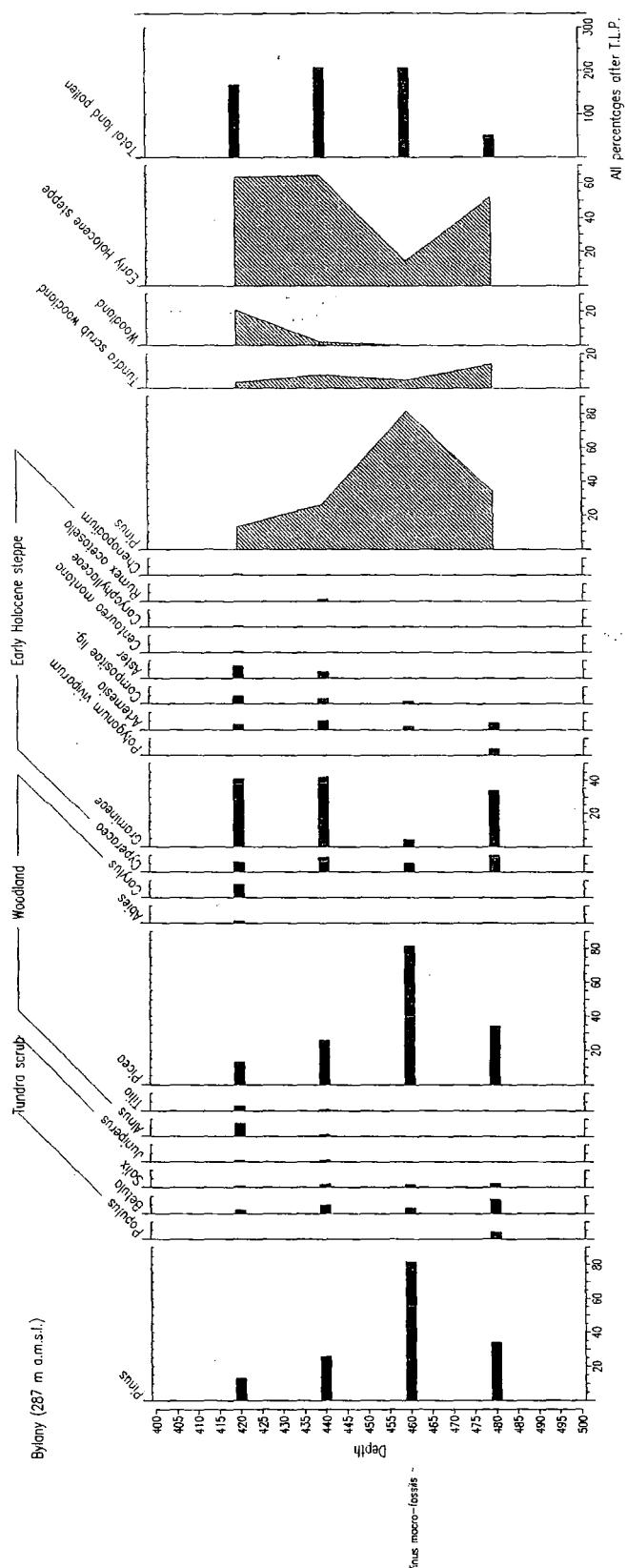


Fig. 27. Konobrže, location of site and pollen sample from Early Únětice grave (18).

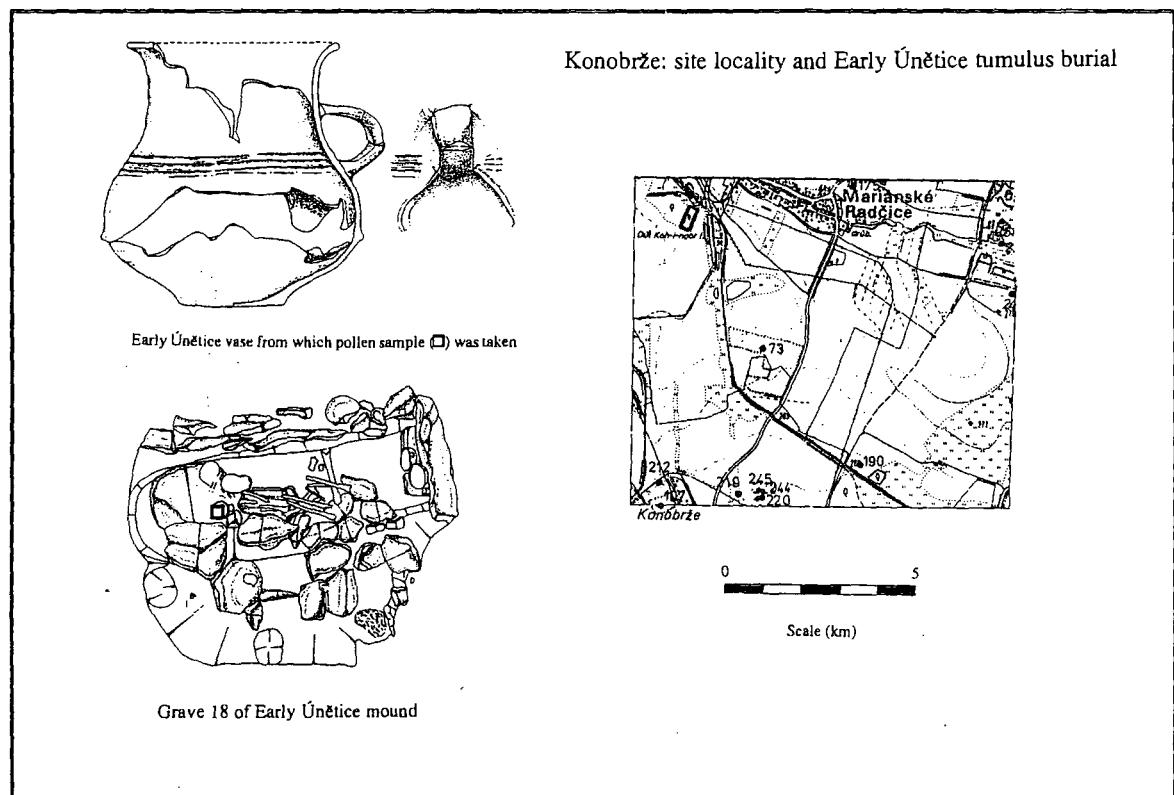


Fig. 28. Konobrže, photo of Eneolithic v-shaped ditch with position of upper pollen sample indicated.



Fig. 29. Konobrže, photo of Knoviz alluvial and colluvial accumulation with position of pollen sample indicated (scale = 50 cm). Colluvial layer and overlying soil are of a darker and alluvium is of a lighter hue.



Fig. 30. Konobrže pollen diagram.

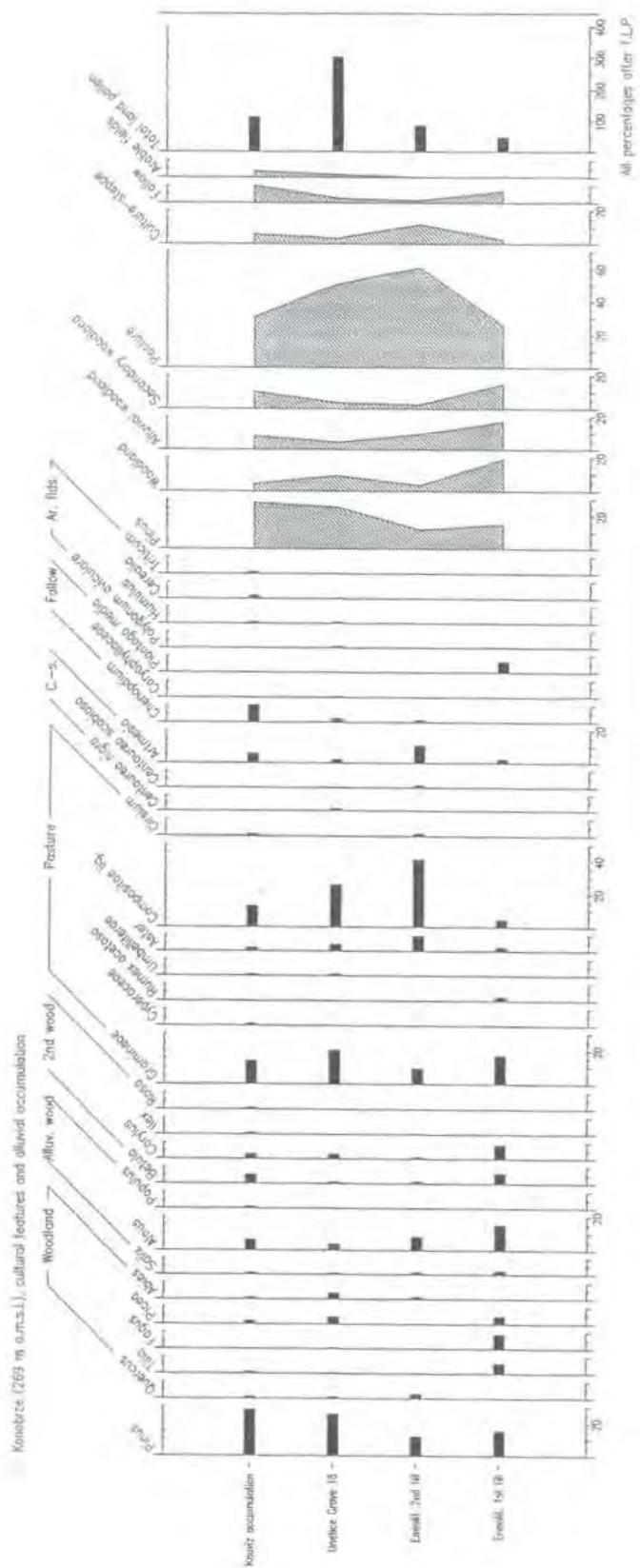


Fig. 31. Vranský potok stratigraphy, with lower and upper zones patterned and middle zone hued.

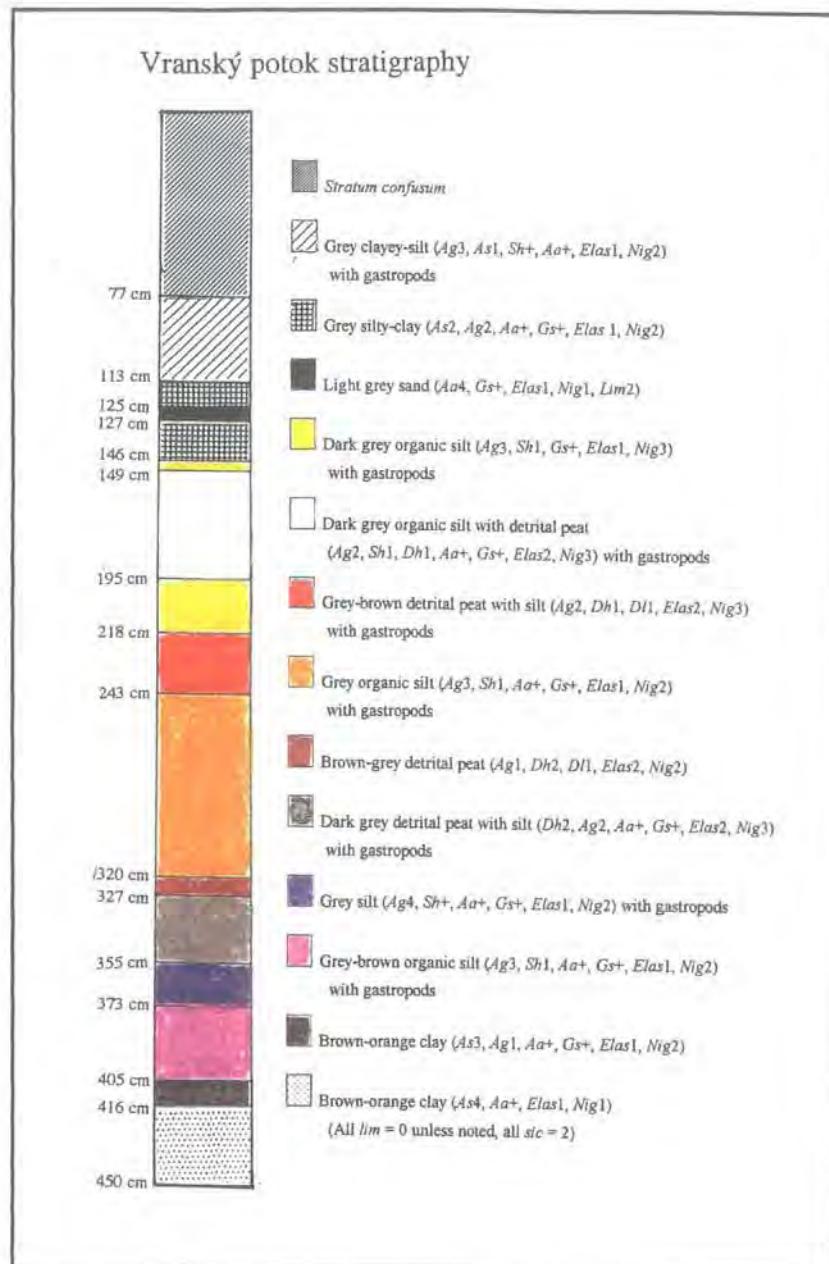


Fig. 32. Idealised fluvial hydrology of a wooded vs. deforested slope (after Butzer 1982).

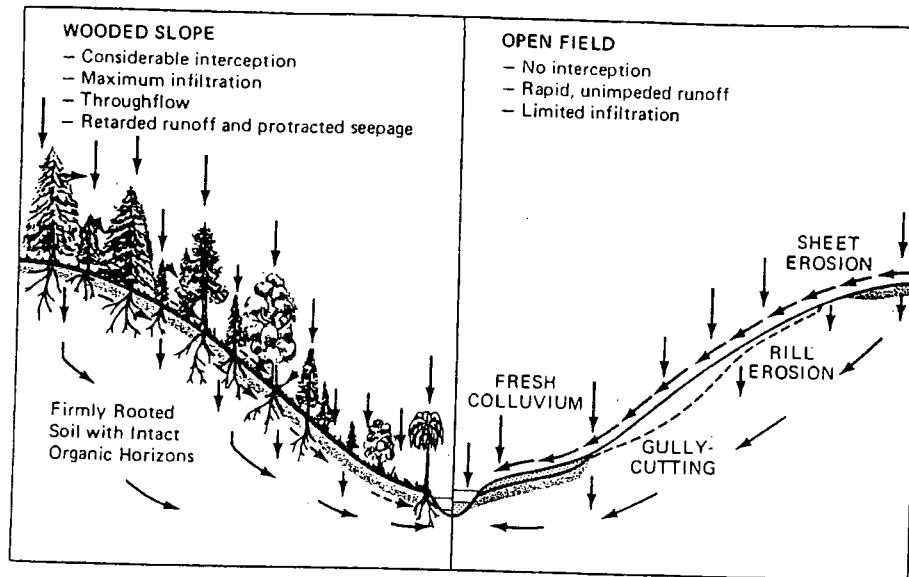


Fig. 33. Vranský potok, reconstructed hydrology and floodplain geometry of lower sedimentary zone.

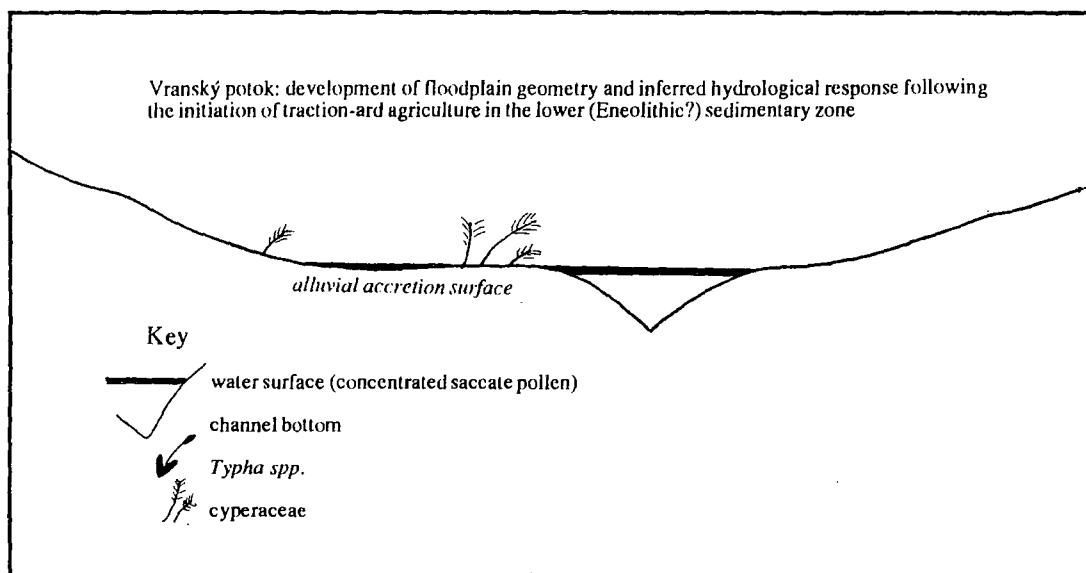


Fig. 34. Vranský potok, reconstructed hydrology and floodplain geometry of middle sedimentary zone (high-water). Note the progressive in-filling of sediment, widening potential habitats for semi-aquatic and telmatic vegetation.

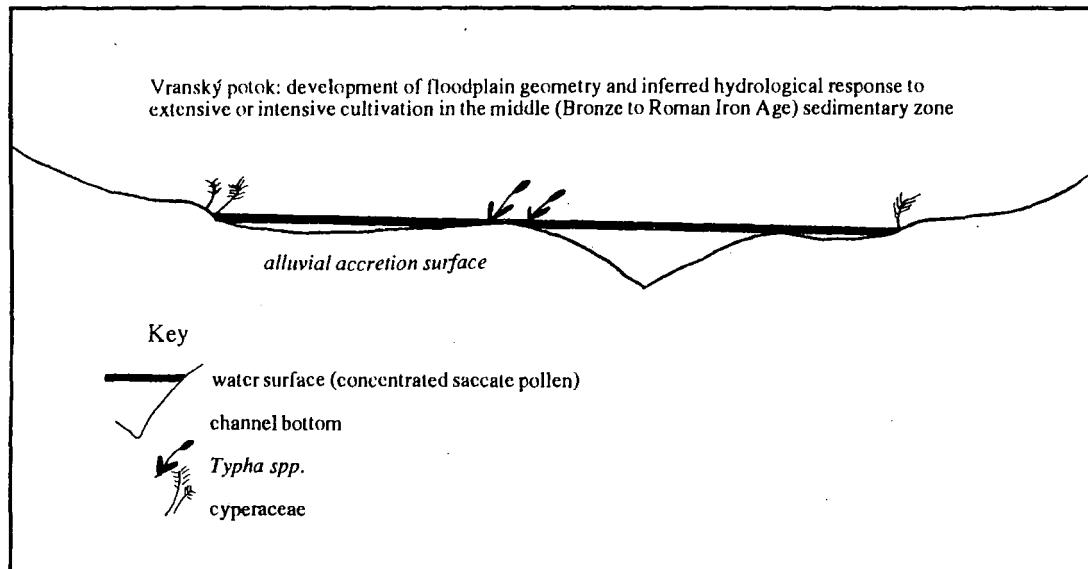


Fig. 35. Vranský potok, reconstructed hydrology and floodplain geometry of middle sedimentary zone (low-water).

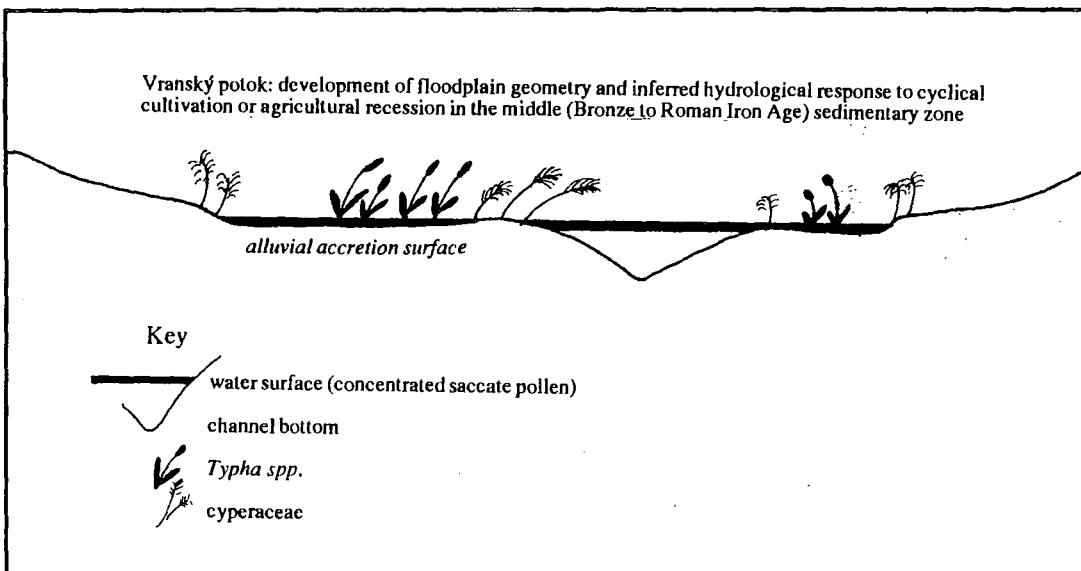


Fig. 36. Vranský potok, reconstructed hydrology and floodplain geometry of upper sedimentary zone. Note that continued in-filling of sediment in the valley bottom has transformed the relationship between the rate of water flow (after cubic meters per second) and proximate water levels at the alluvial accretion surface. A sub-competent alluviation is indicated by more poorly sorted sediment in this upper zone, with increased (subaqueous) clay deposition interrupted by high energy events.

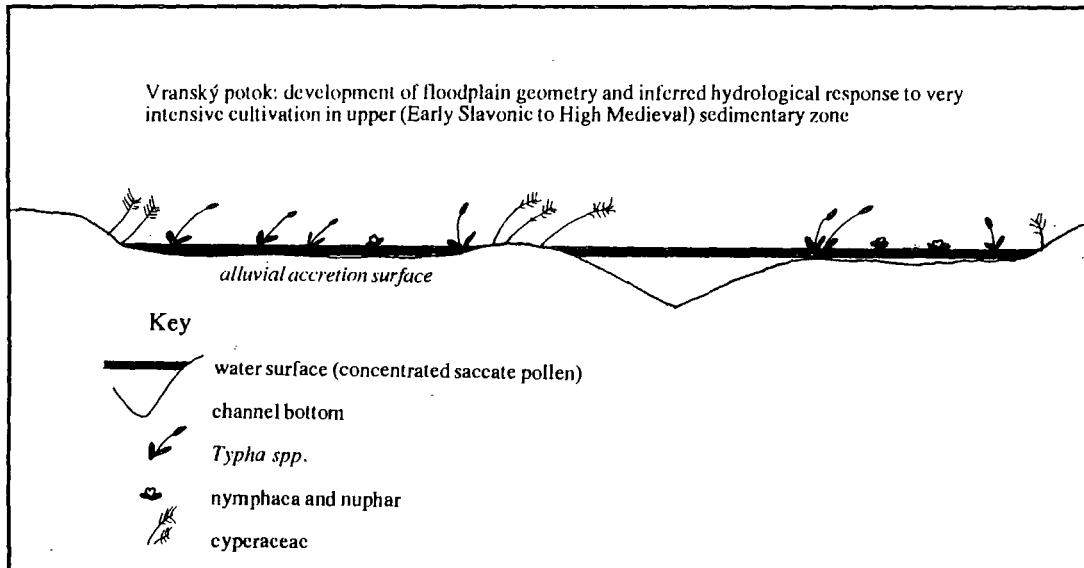


Fig. 37. Vranský potok summary pollen diagram after total land pollen.

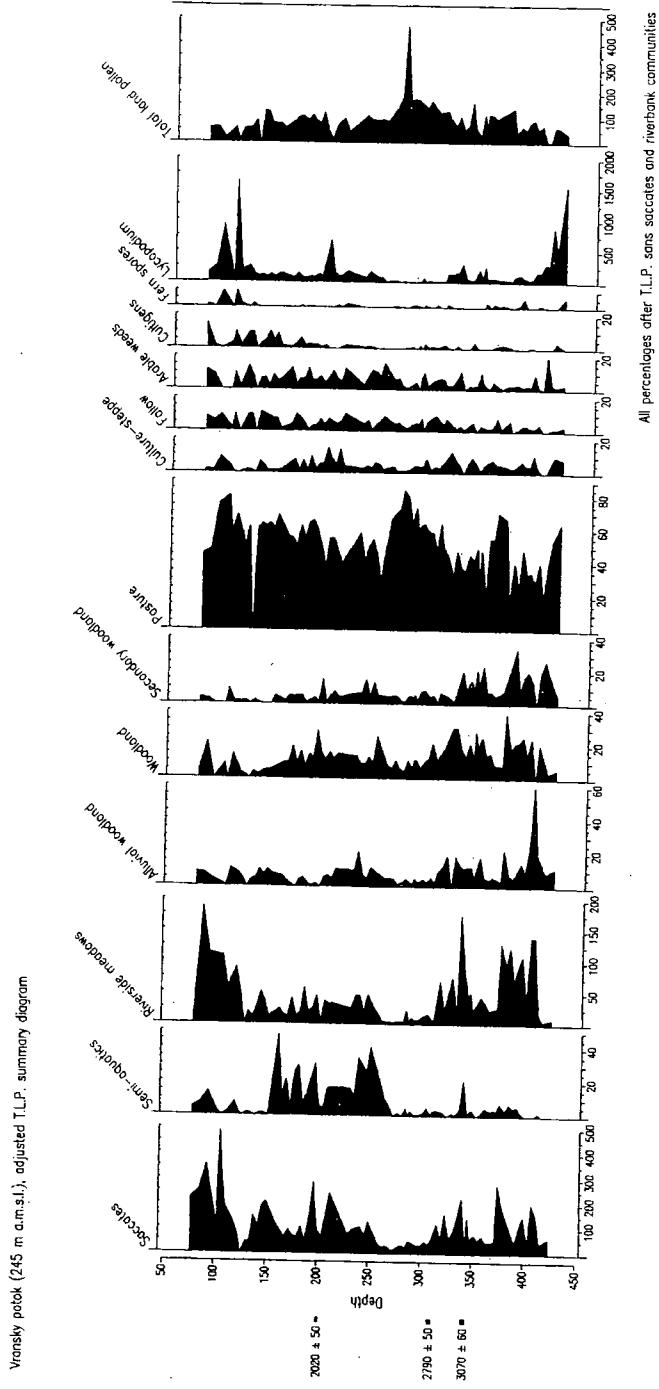


Fig. 38. Eneolithic settlement at Vranský potok as reflected in systematic field-walking and unsystematic finds.

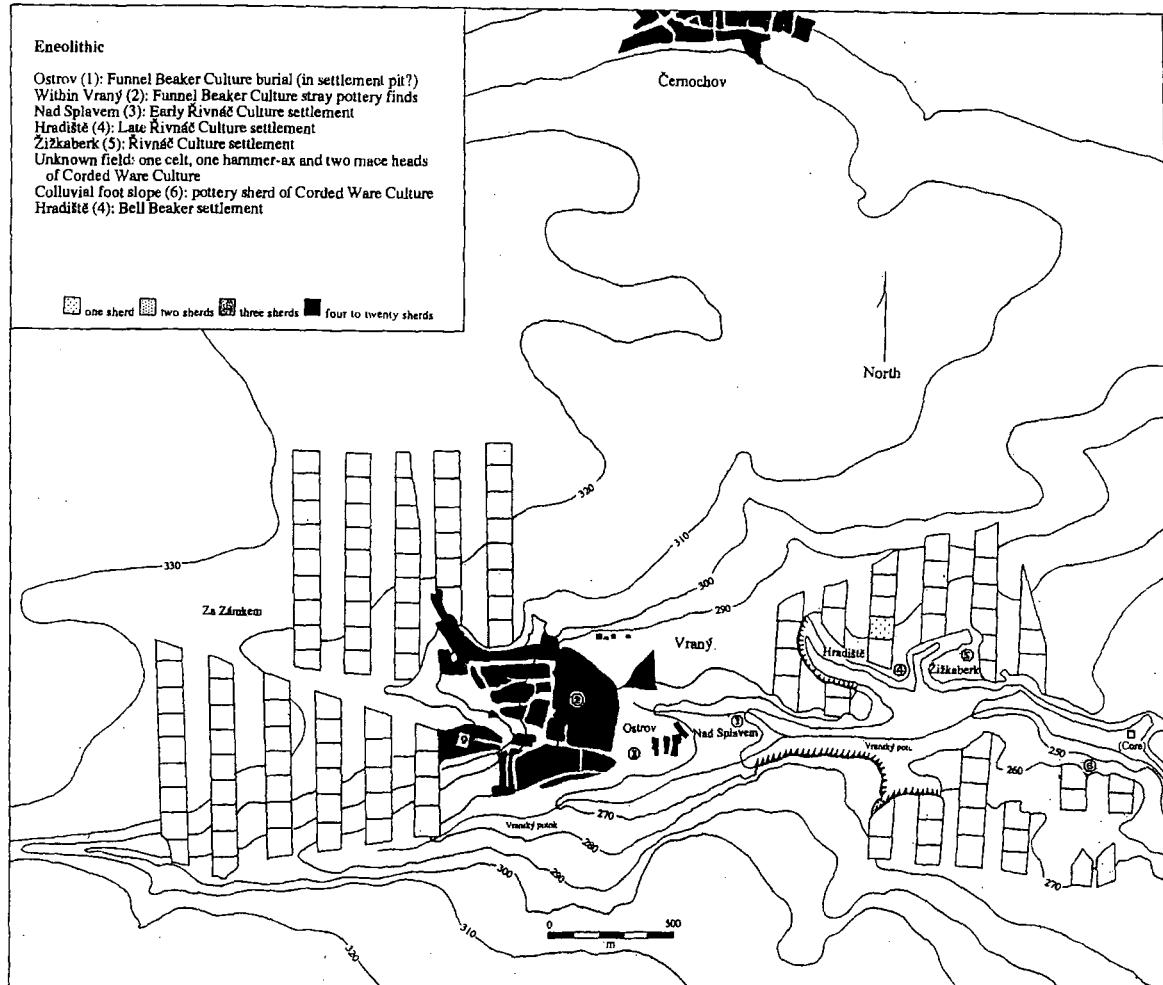


Fig. 39. Early and Middle Bronze Age settlement at Vranský potok as reflected in systematic field-walking and unsystematic finds.

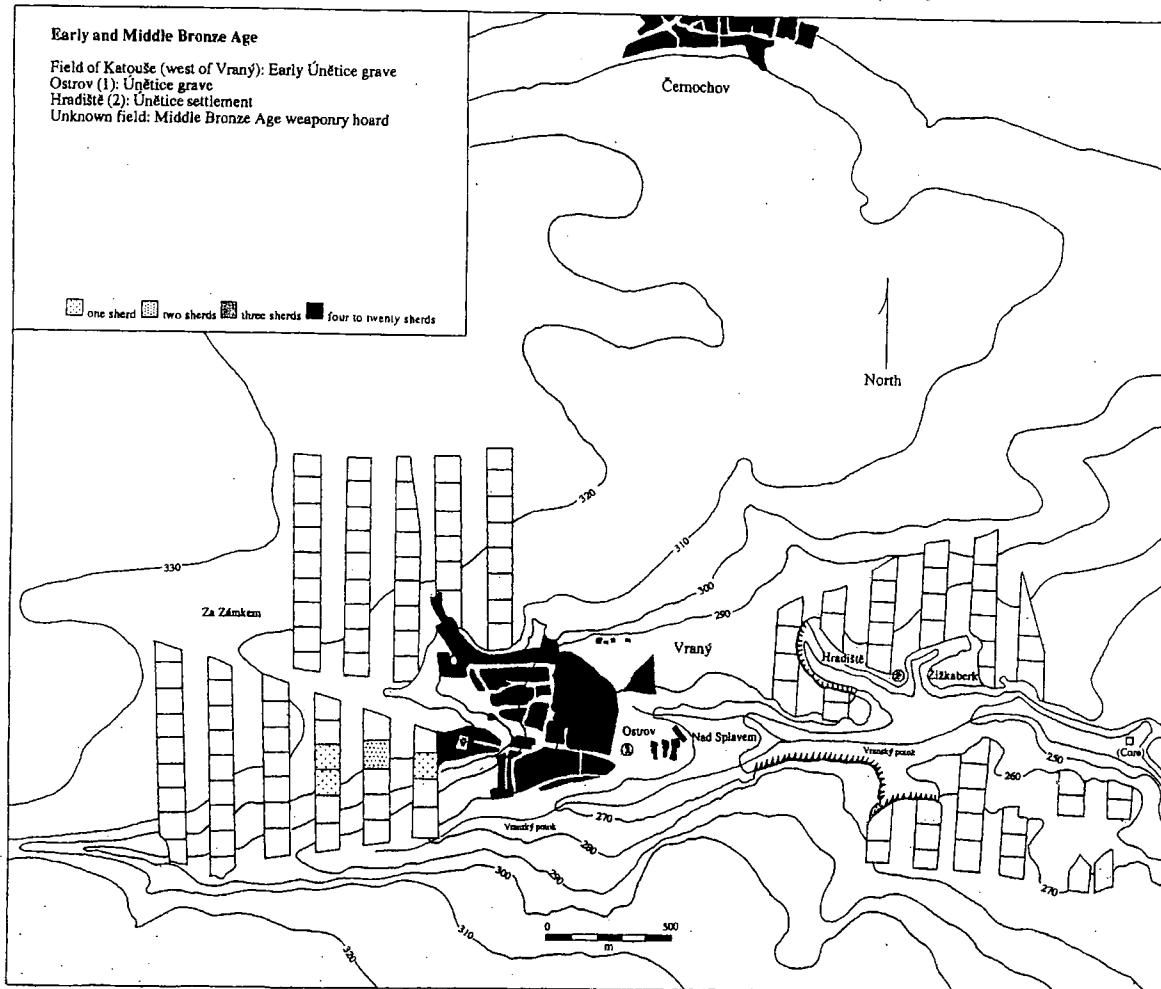


Fig. 40. Classical Early Bronze Age settlement at Vranský potok as reflected in systematic field-walking and unsystematic finds (this may also include some finds indicated in Fig. 39).

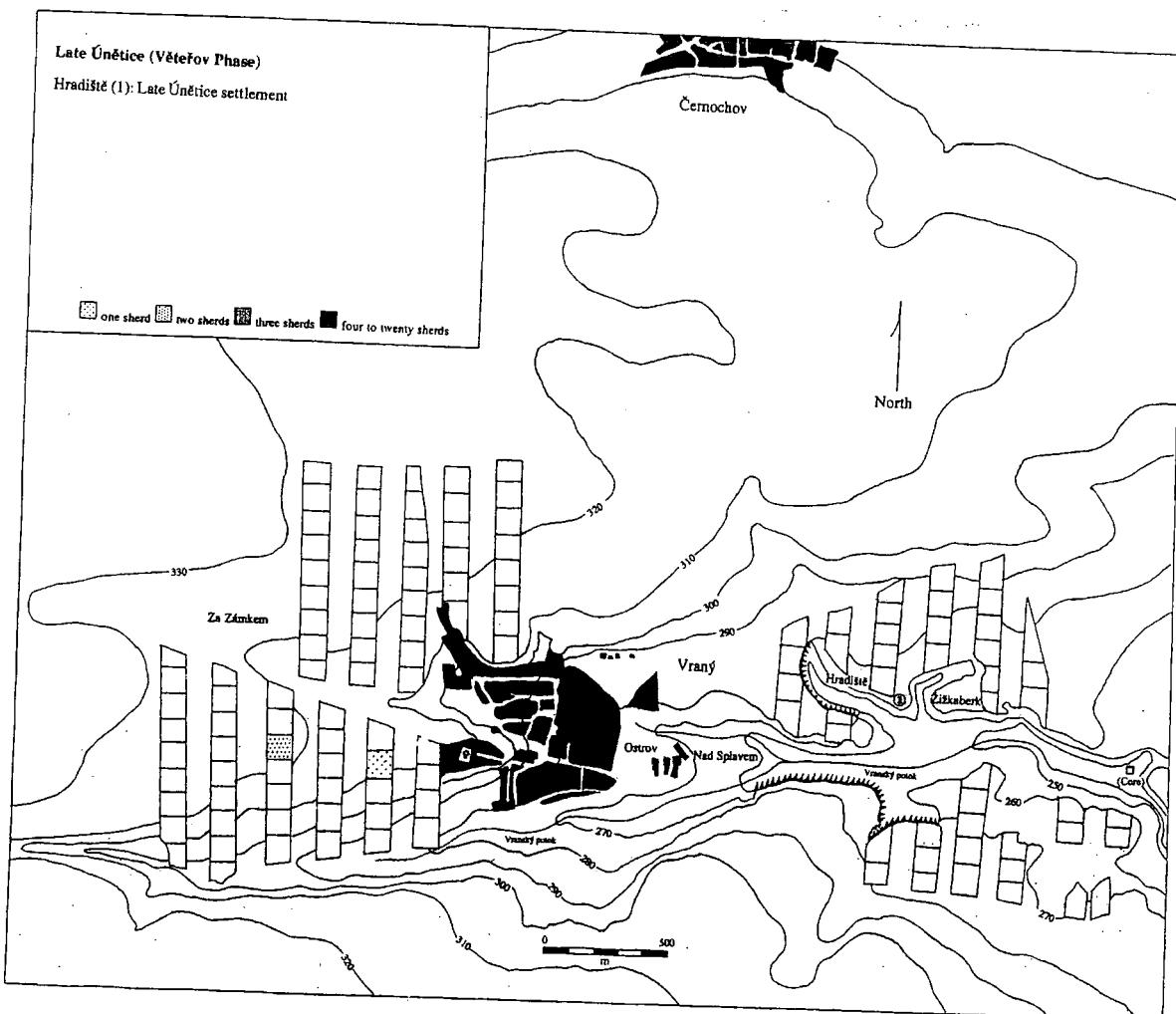


Fig. 41. Knovíz Urnfield settlement at Vranský potok as reflected in systematic field-walking and unsystematic finds.

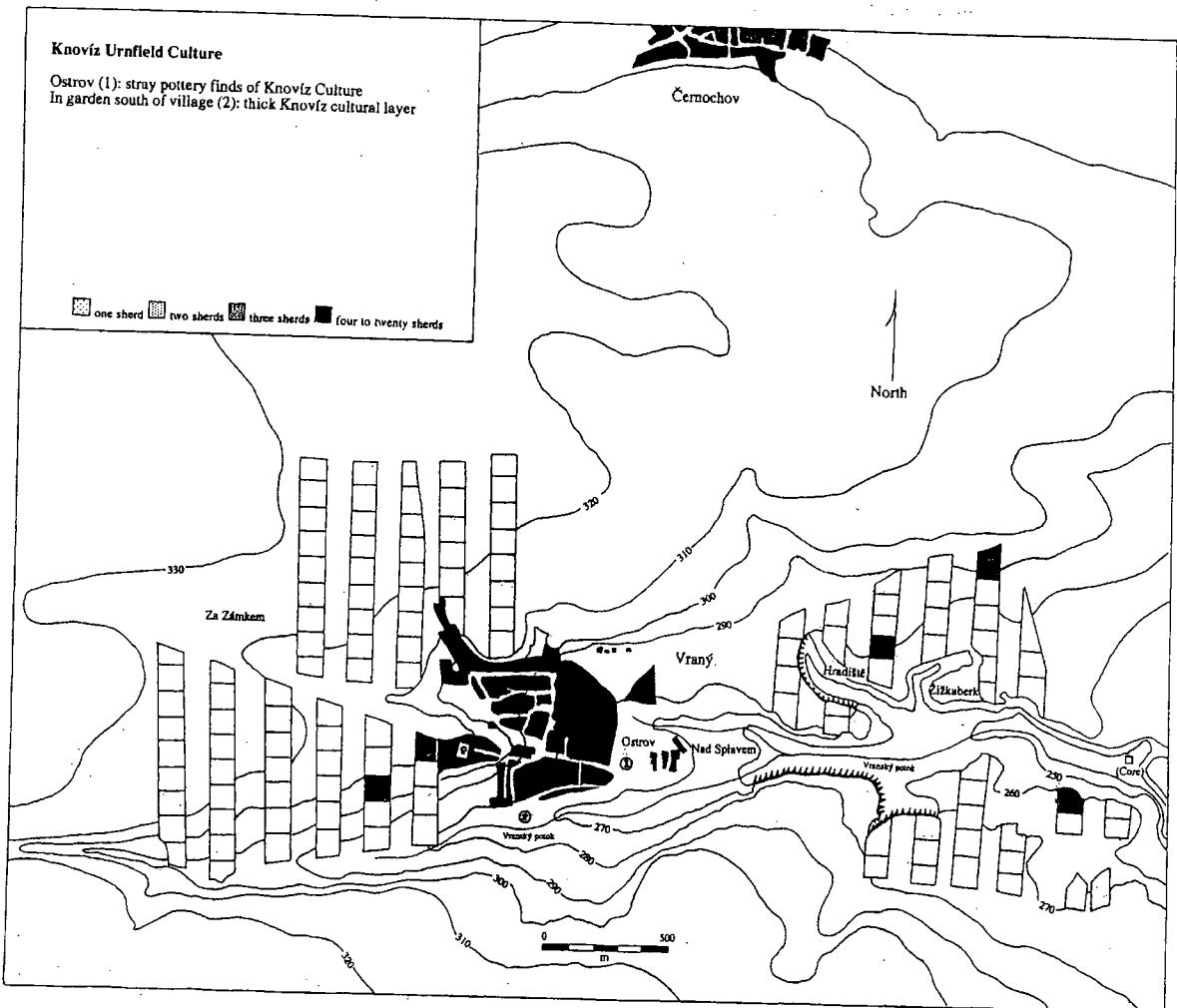


Fig. 42. Štítary Urnfield settlement at Vranský potok as reflected in systematic field-walking and unsystematic finds.

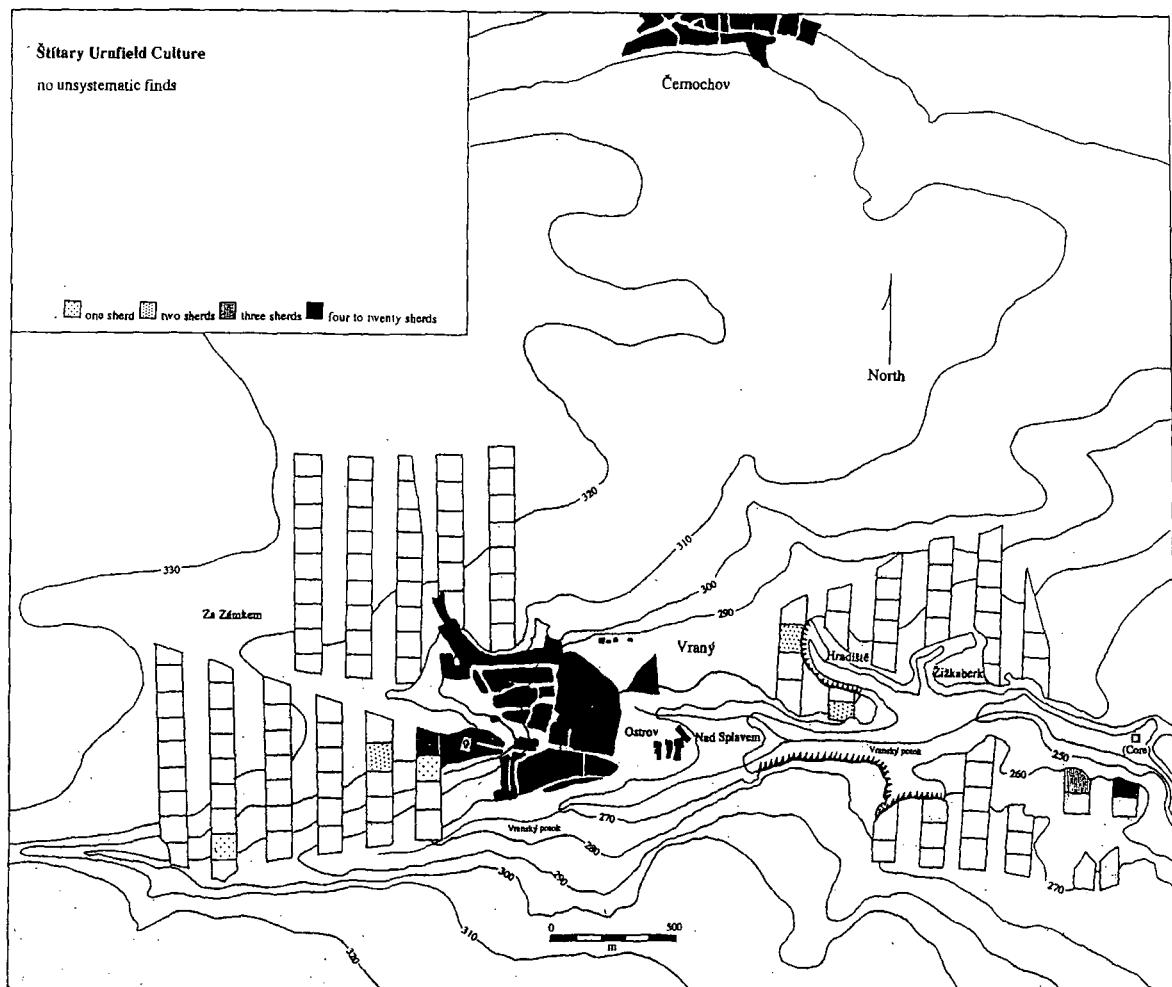


Fig. 43. Late Hallstatt-La Téne A period settlement at Vranský potok as reflected in systematic field-walking and unsystematic finds.

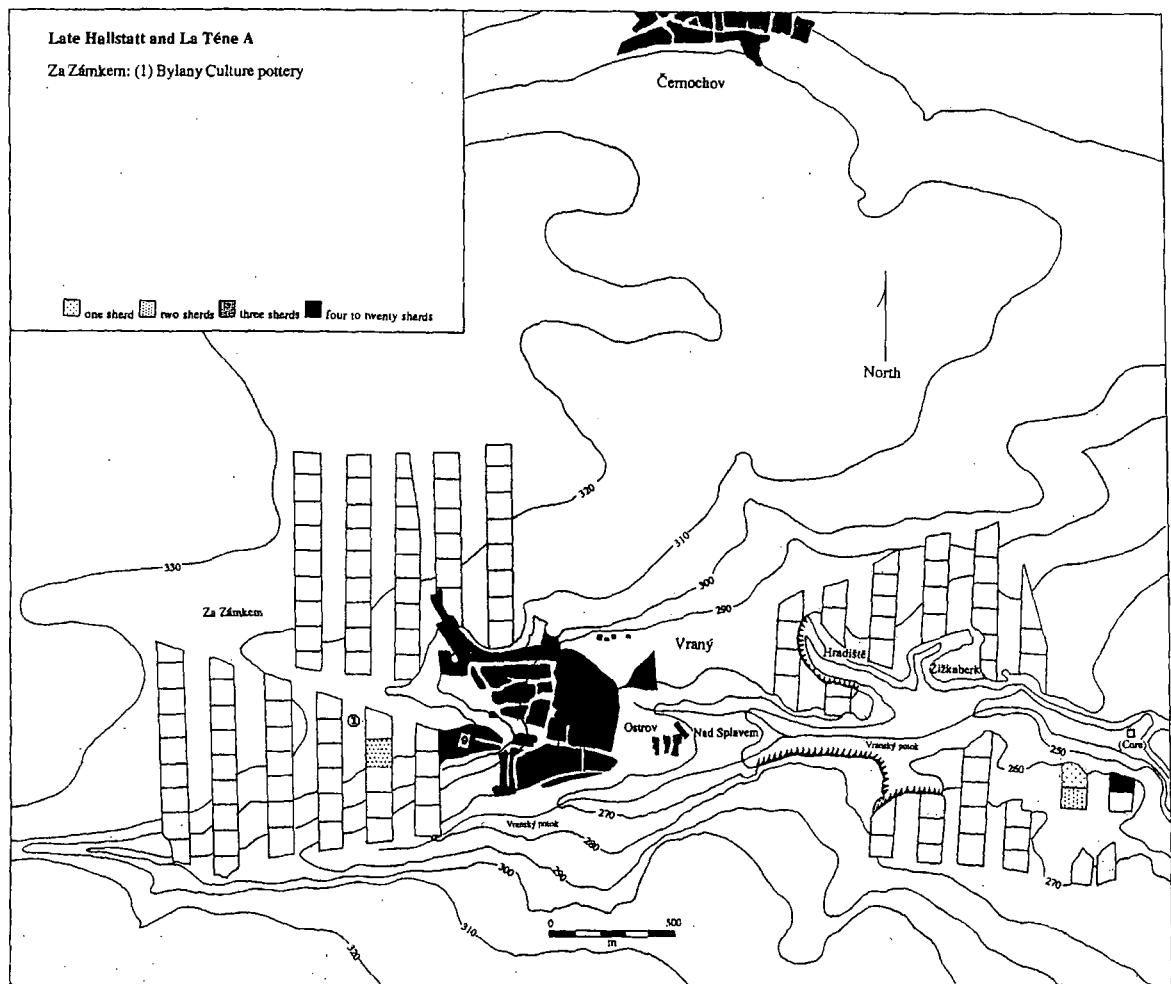


Fig. 44. Middle to Late La Téne period settlement at Vranský potok as reflected in systematic field-walking and unsystematic finds.

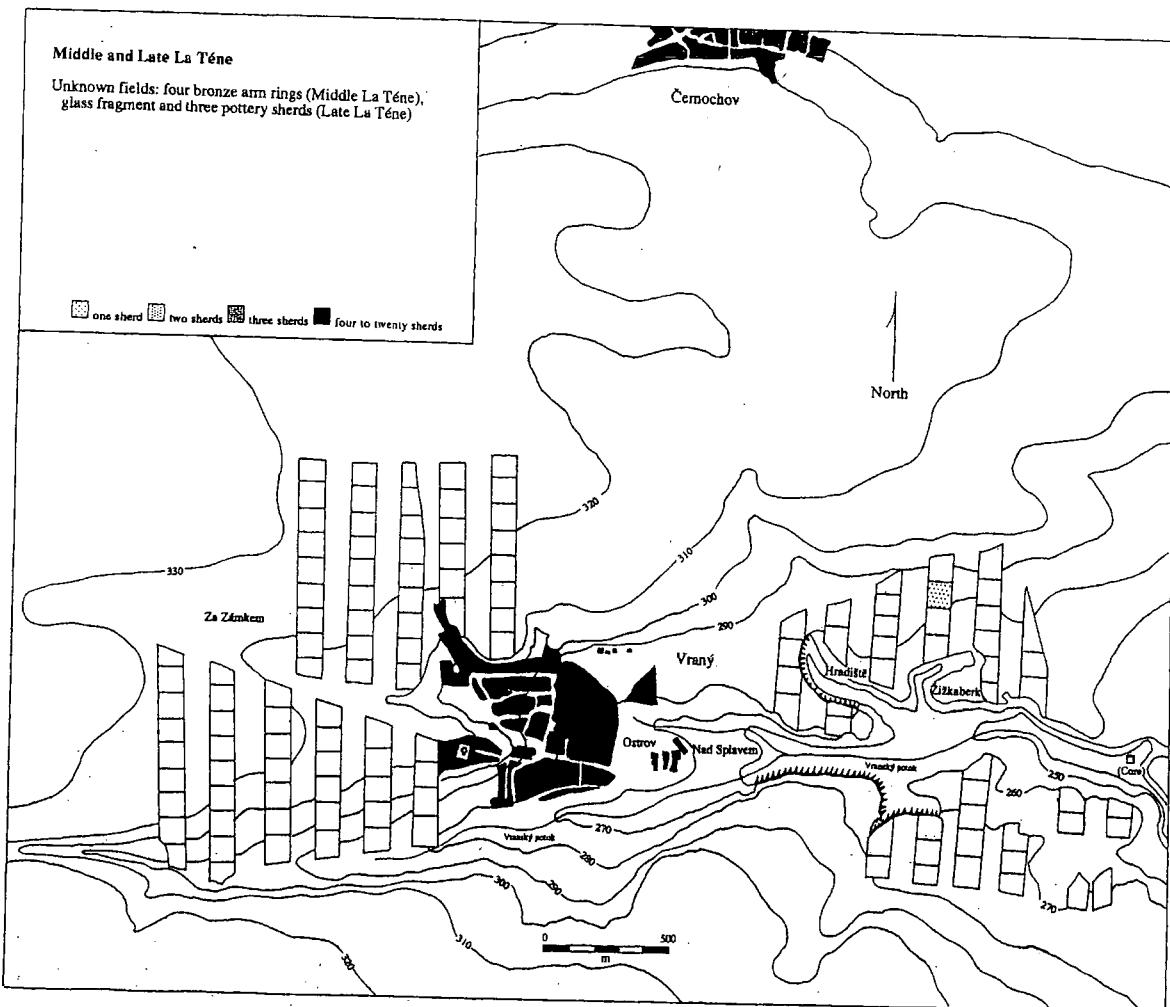


Fig. 45. Roman Iron Age settlement at Vranský potok as reflected in systematic field-walking and unsystematic finds.

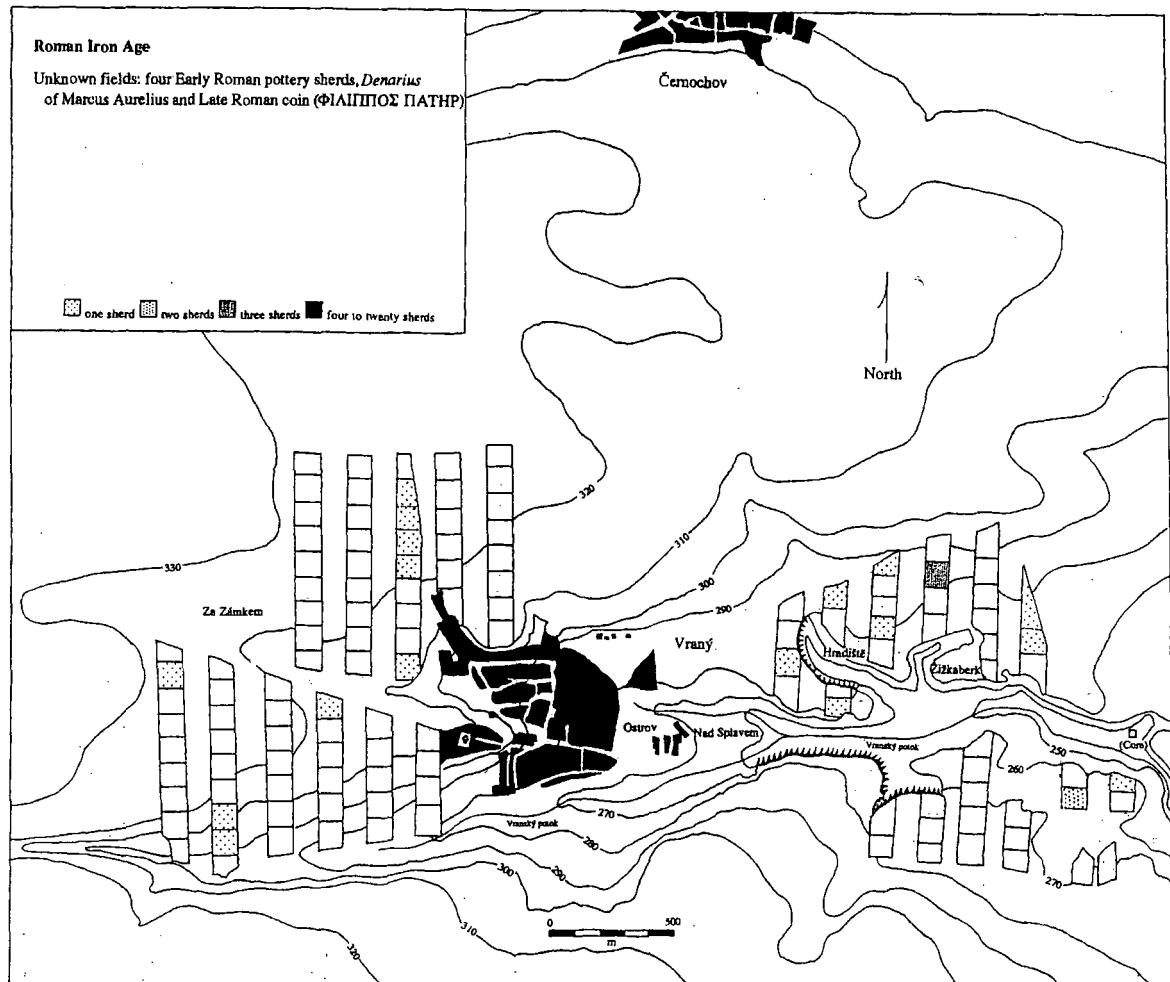


Fig. 46. Vinoř and Vinořský potok, location of archaeological pollen site and geo-botanical core.

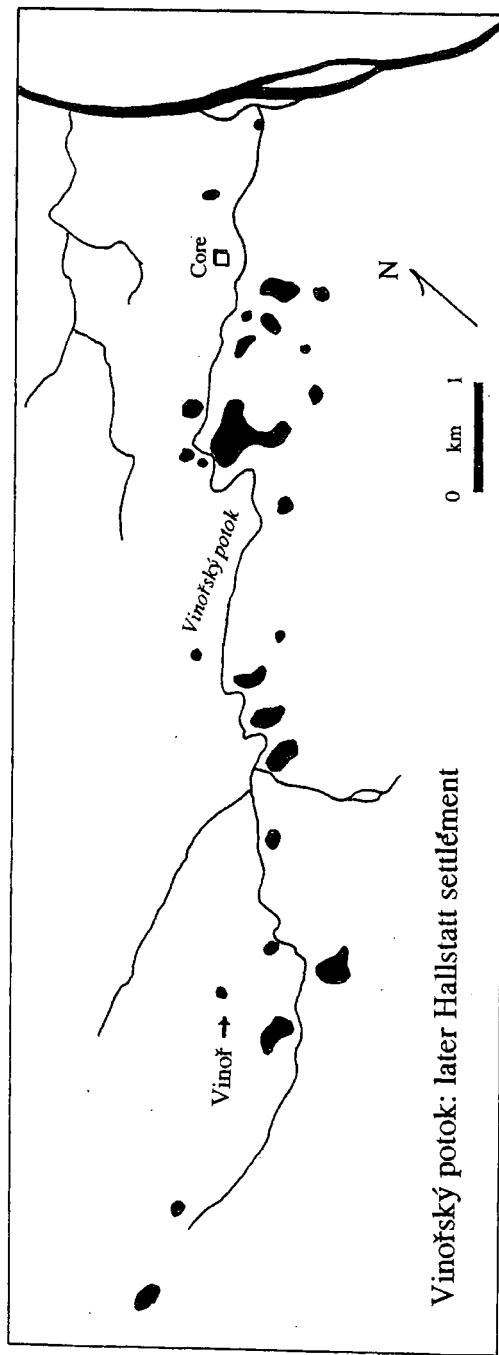


Fig. 47. Vinoř, position of Early Iron Age features in modern village.

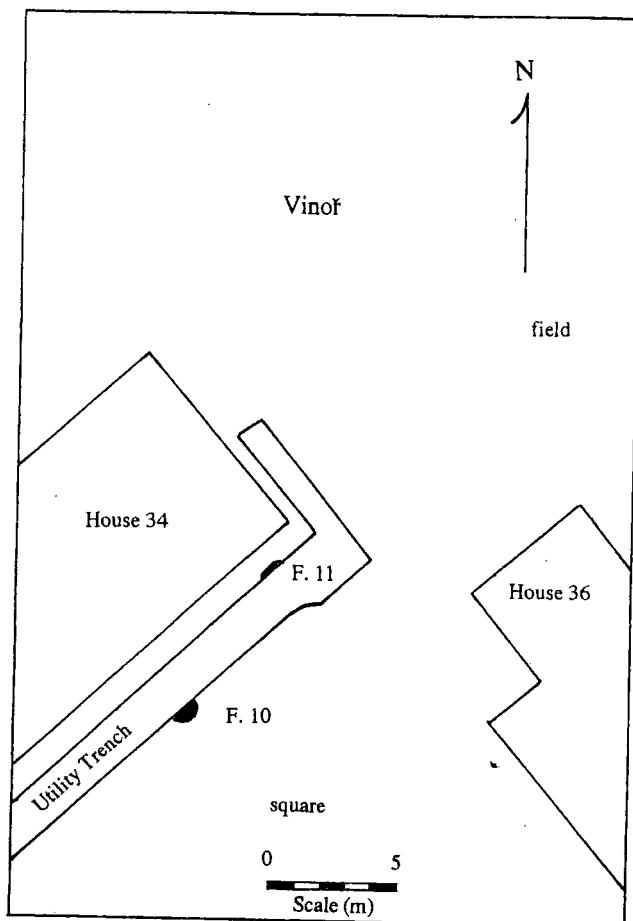


Fig. 48. Vinoř, profiles of (Hallstatt C2) Feature 11 and (Late Hallstatt) Feature 10 (see Fig. 49 for scale).

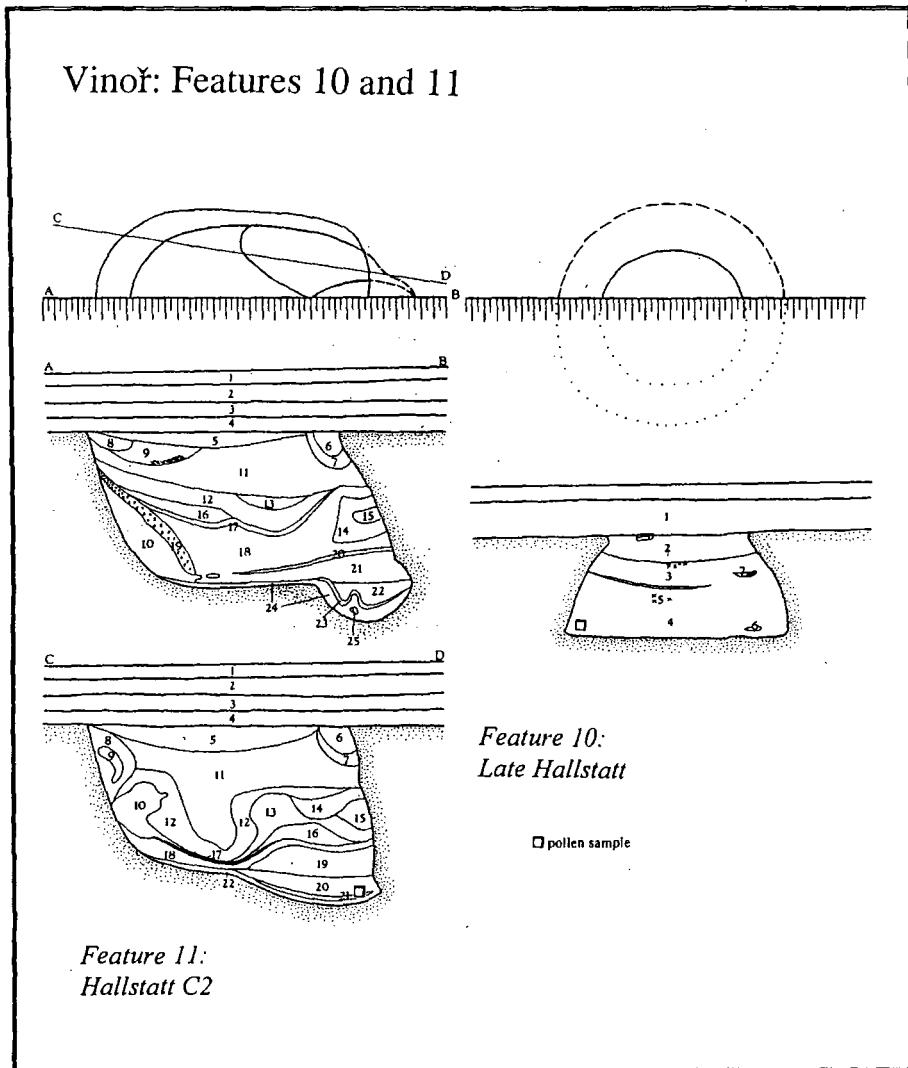


Fig. 49. Vinoř, photo of Feature 10 (with scale of 20 cm segments).



Fig. 50. Vinoř, pollen diagram of spectra from Hallstatt Features 11 and 10.

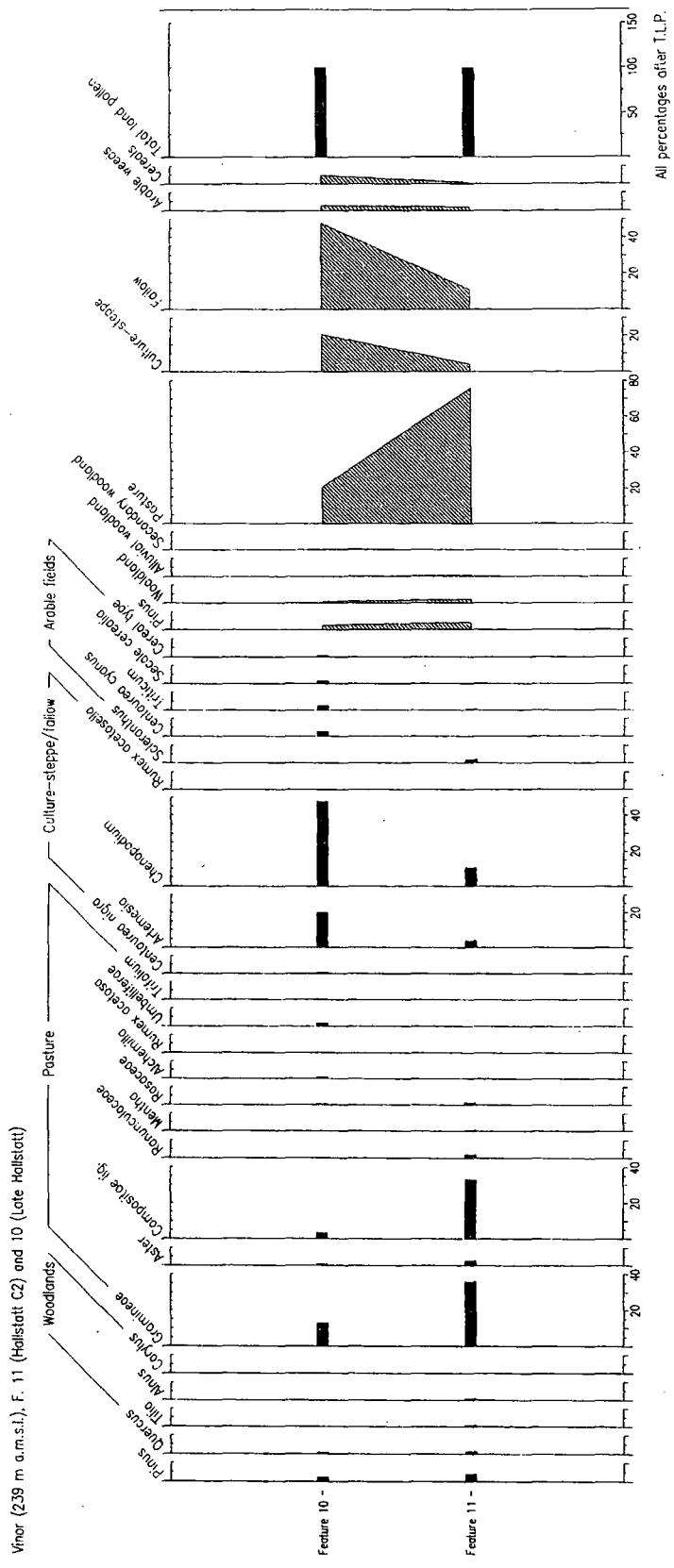


Fig. 51. Vinořský potok pollen diagram.

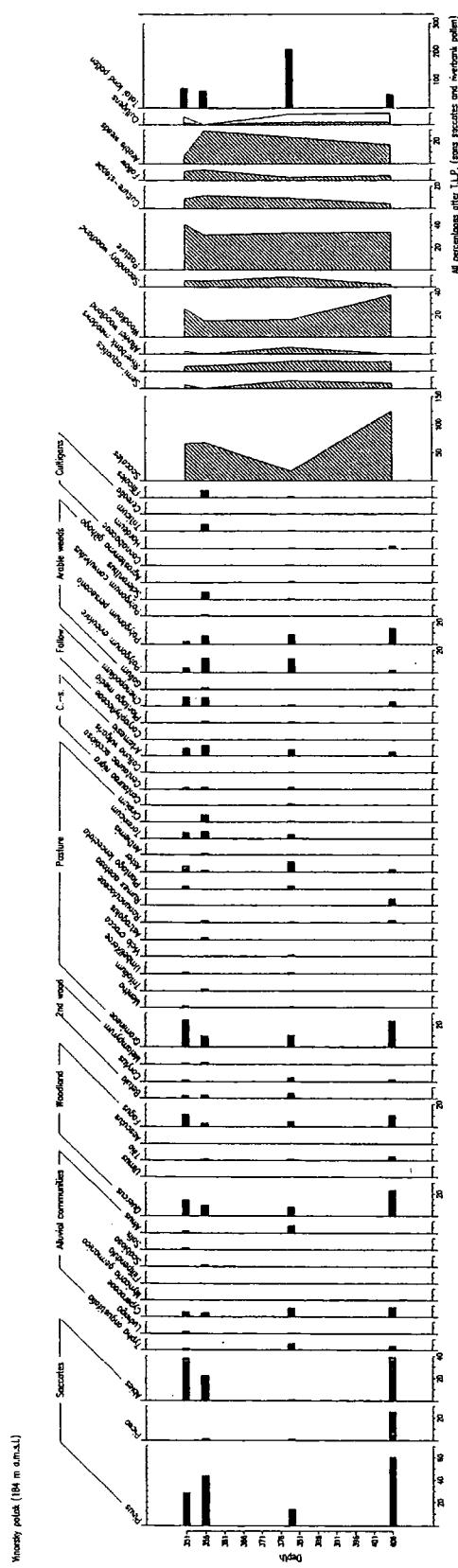


Fig. 52. Včelince, location of geo-botanical and archaeological pollen sites.

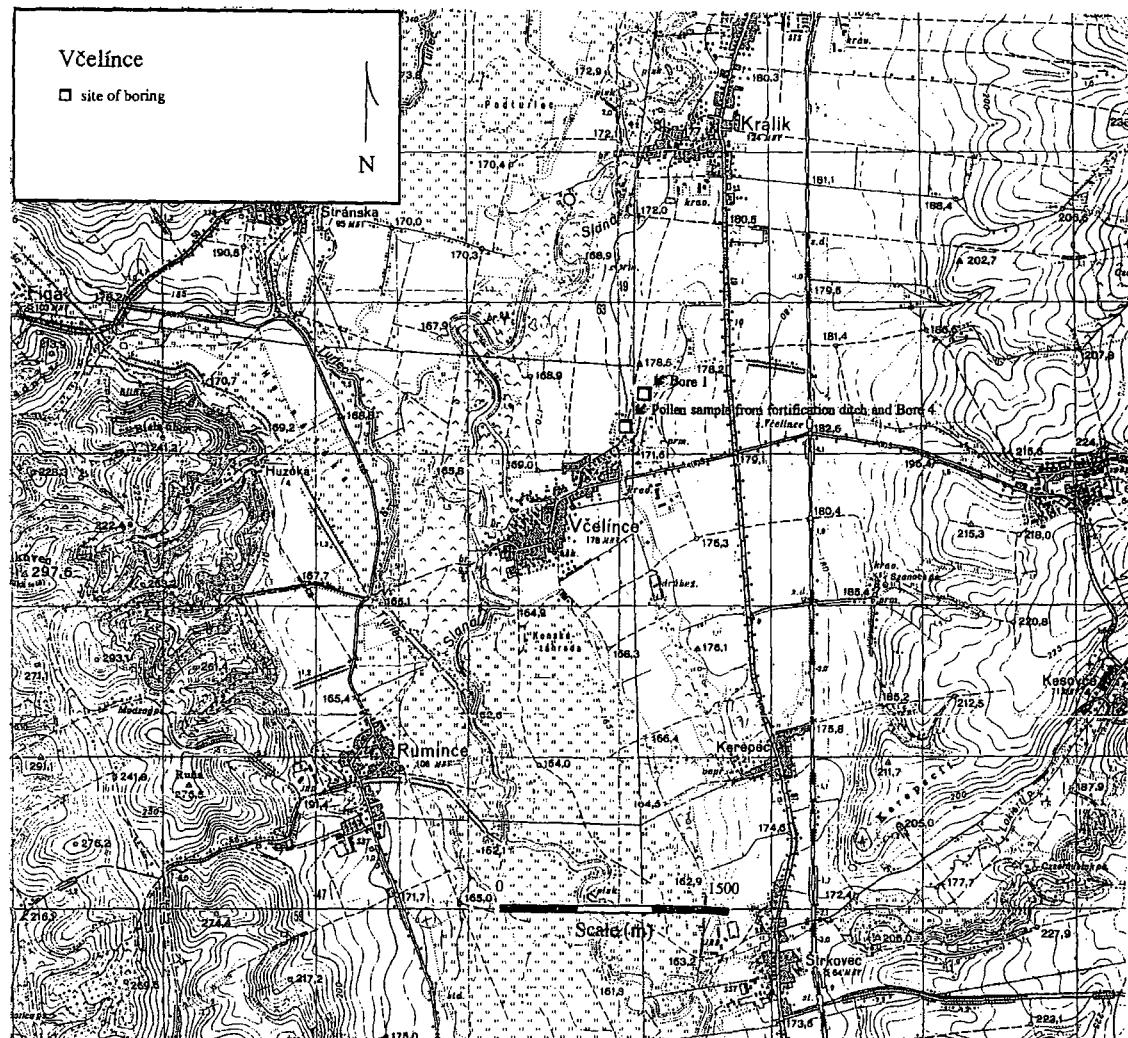


Fig. 53. Včelínce, on-site position of bore into Early Bronze Age fortification ditch and off-site position of Bore 4.

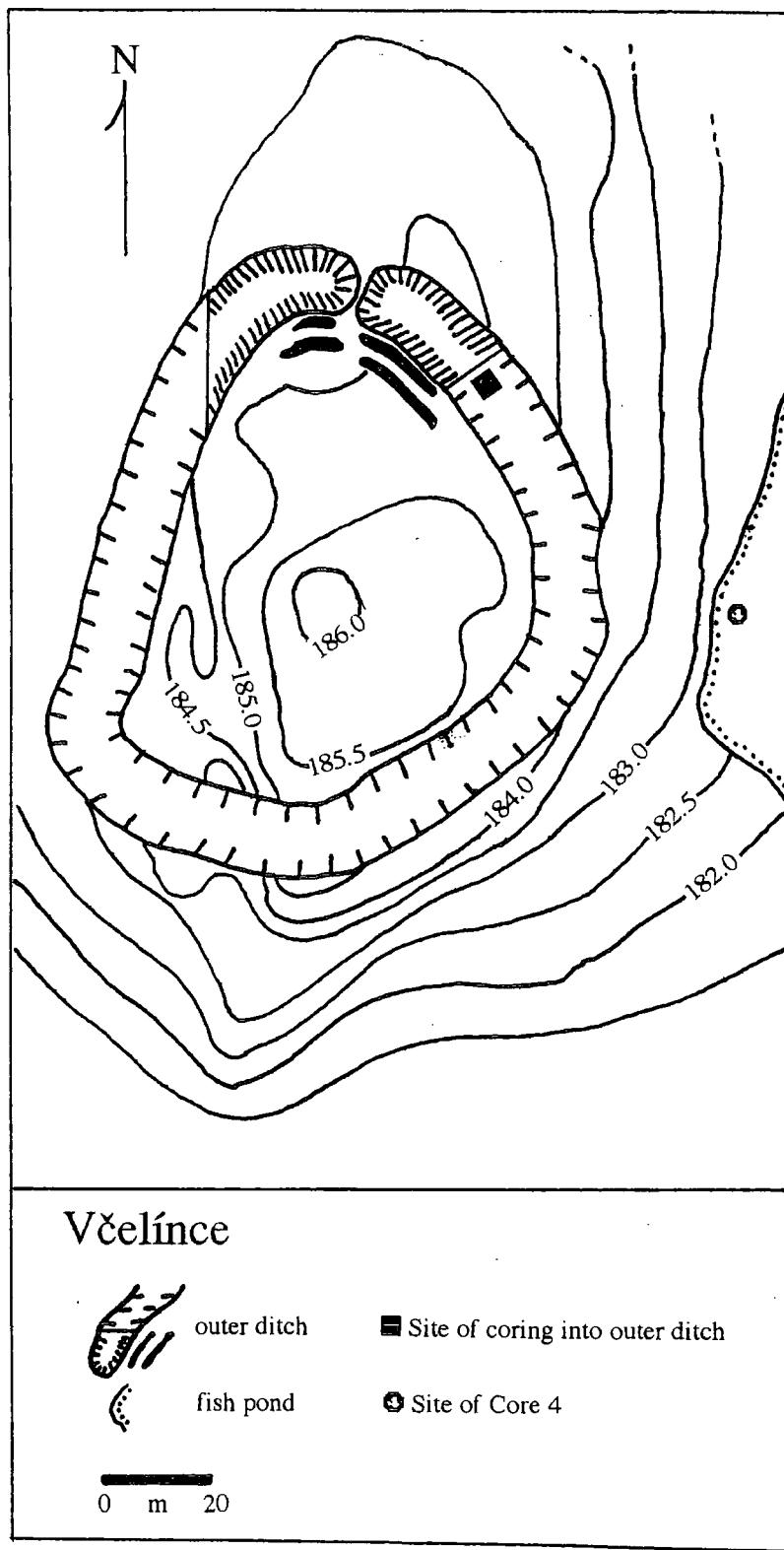


Fig. 54. Včelínce, profile of Early Bronze Age fortification ditch with position of pollen samples transposed.

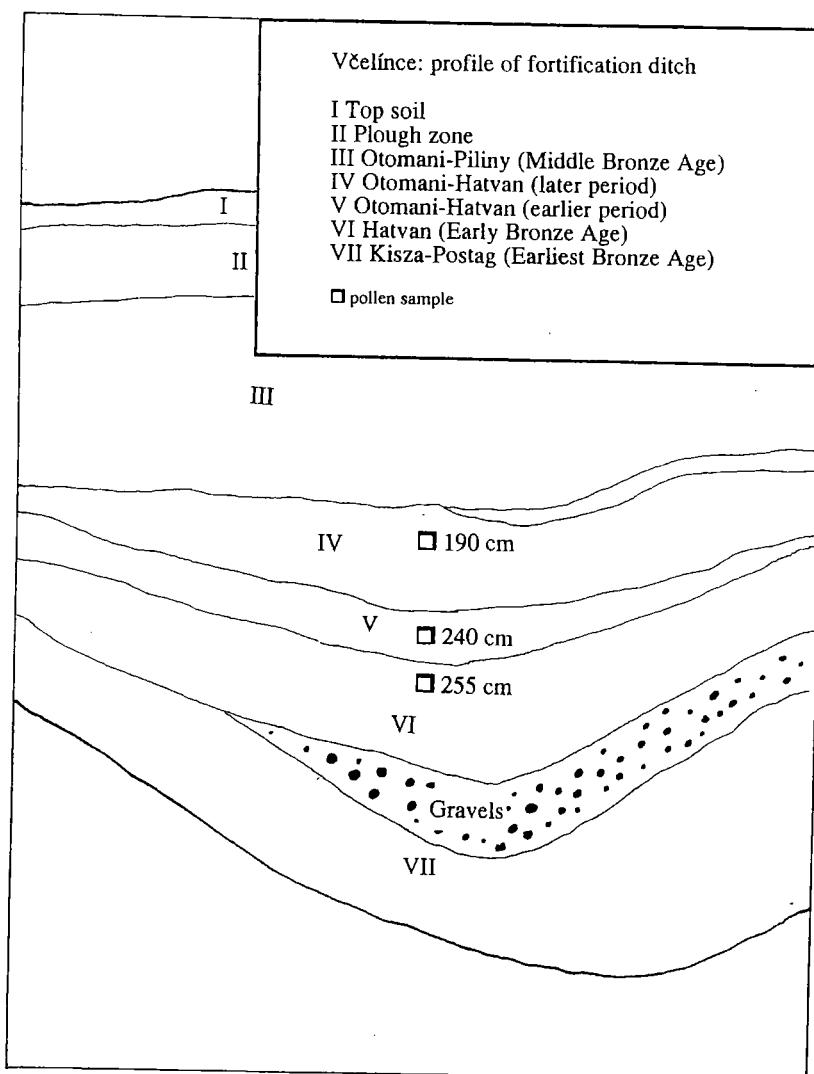


Fig. 55. Včelince, photo of site of Bore 1 (by drainage) from the earthen bank of the Early Bronze Age site.

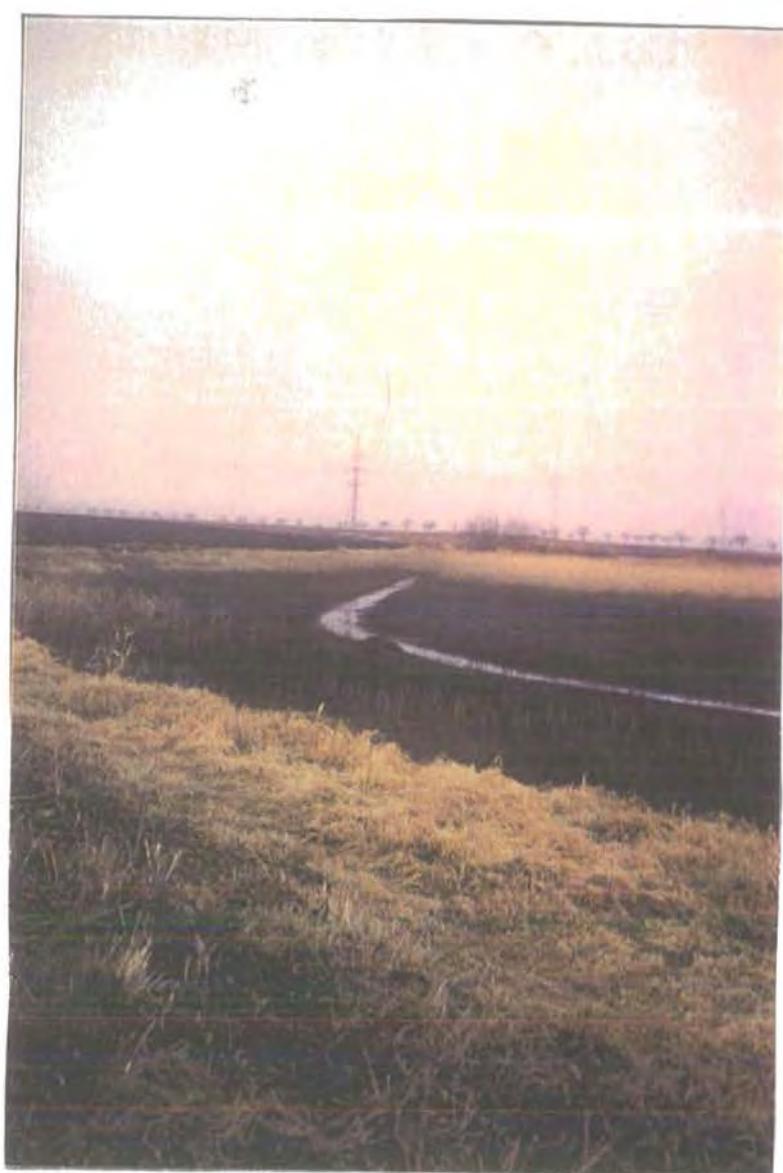


Fig. 56. Včelínce pollen diagram.

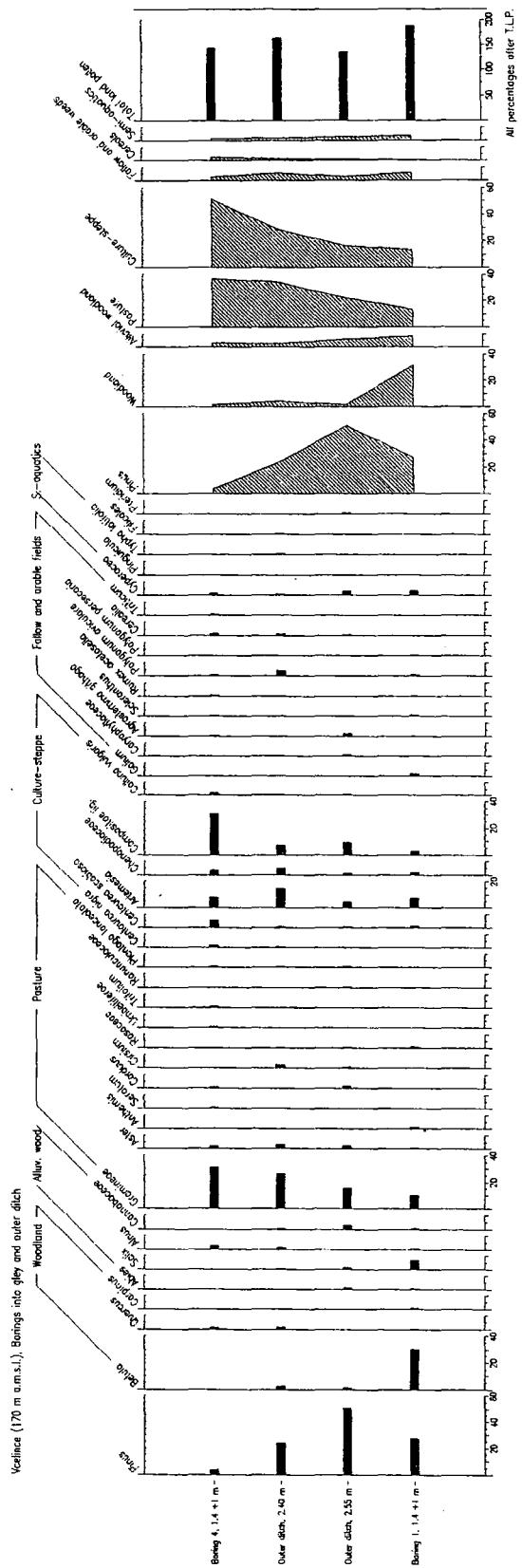


Fig. 57. Mýtna Nová Ves, location of geo-botanical and archaeological pollen sites.

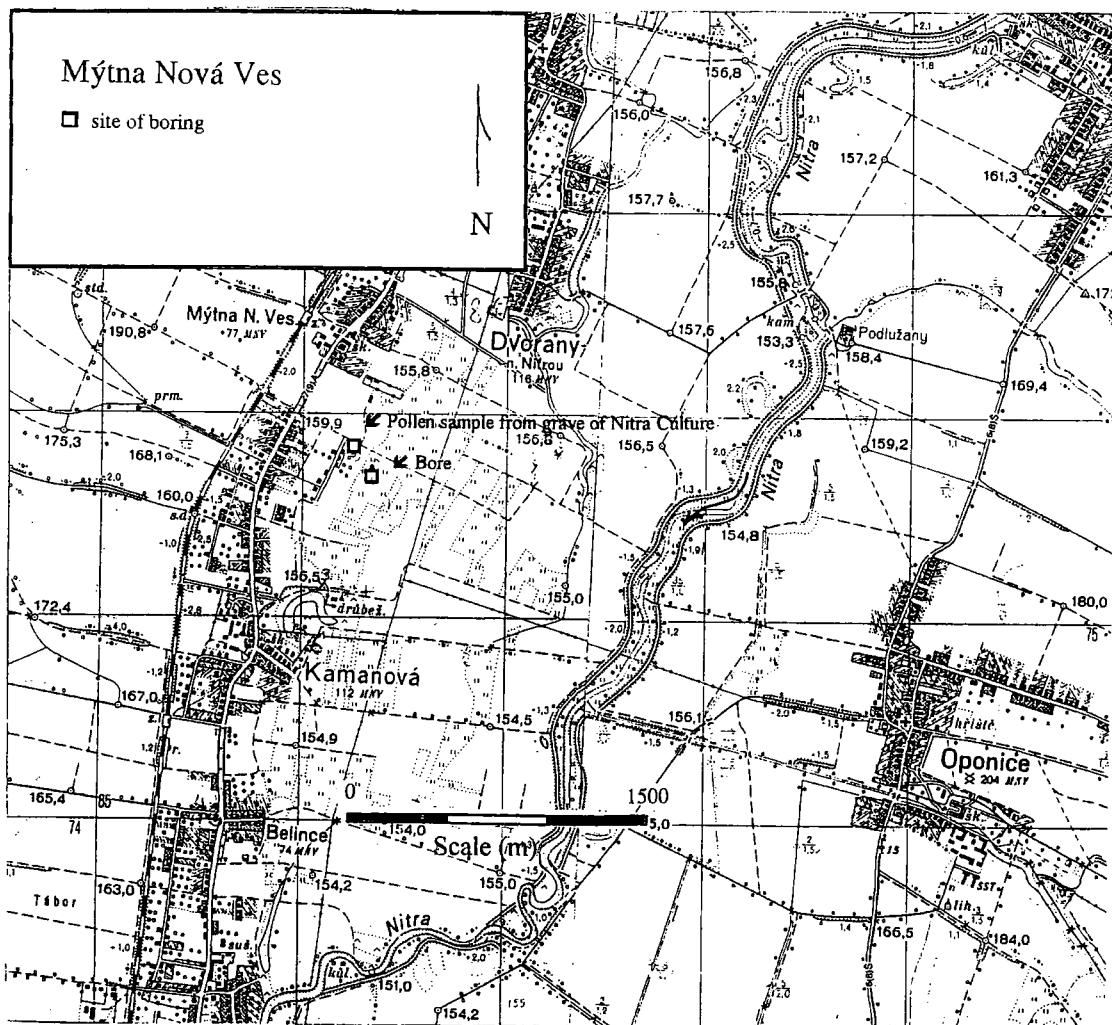


Fig. 58. Mýtna Nová Ves pollen diagram.

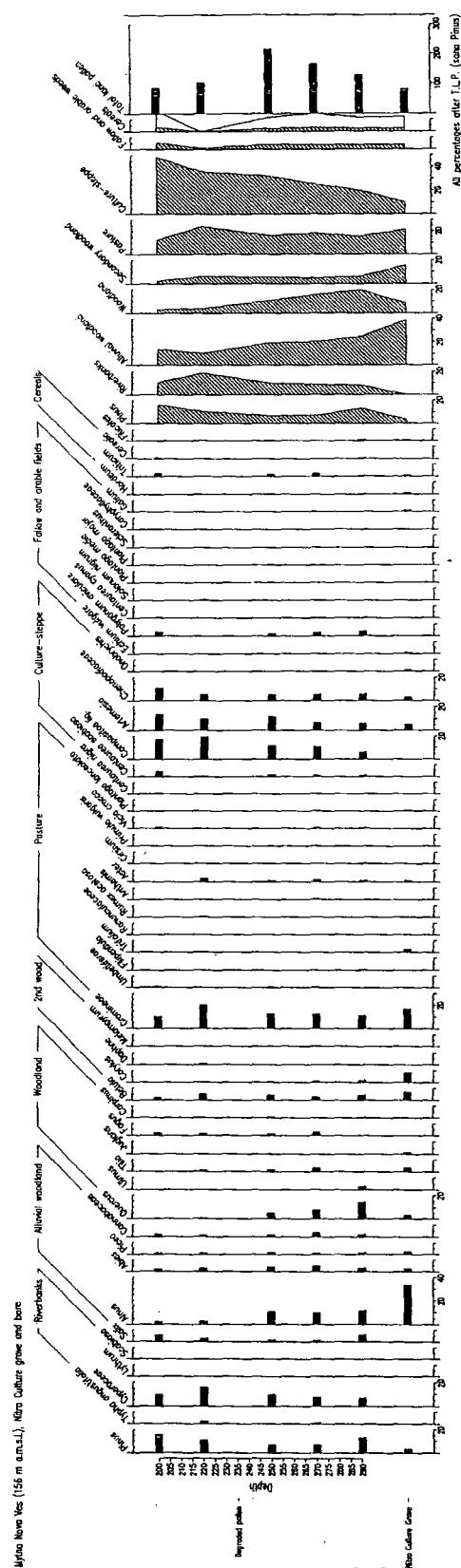


Fig. 59. Vojkovice, location of archaeological pollen site.

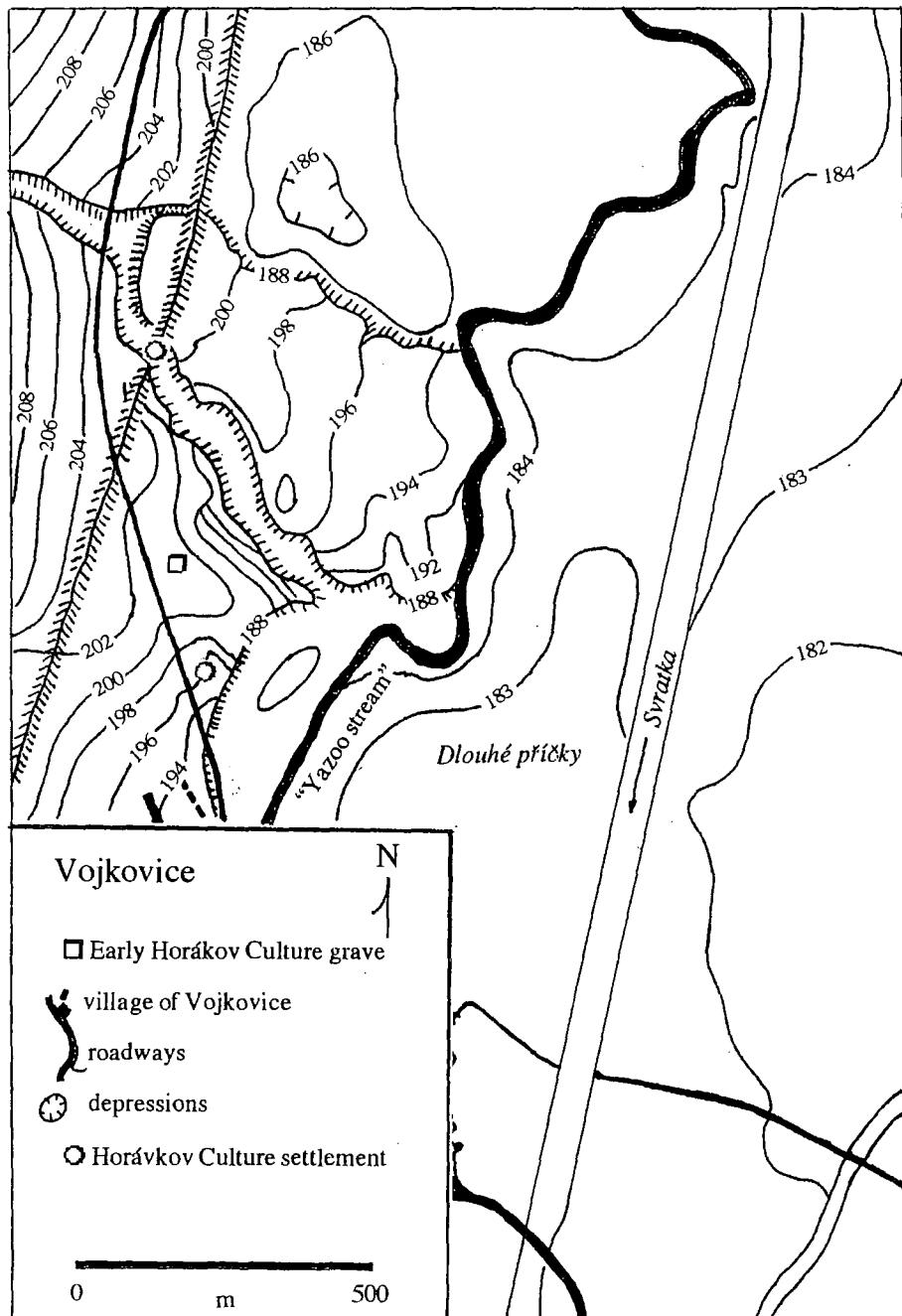


Fig. 60. Vojkovice, photo of Early Horákov chamber grave of young lady (aged 20-25) with an array of ceramic and animal (*Sus scrofa*?) offerings. Note green discolouration of copper salts in area of bronze ring-mail belt from which pollen sample was taken (cf. Svareč, Fig. 103).



Fig. 61. Pohořelice, location of archaeological pollen site.

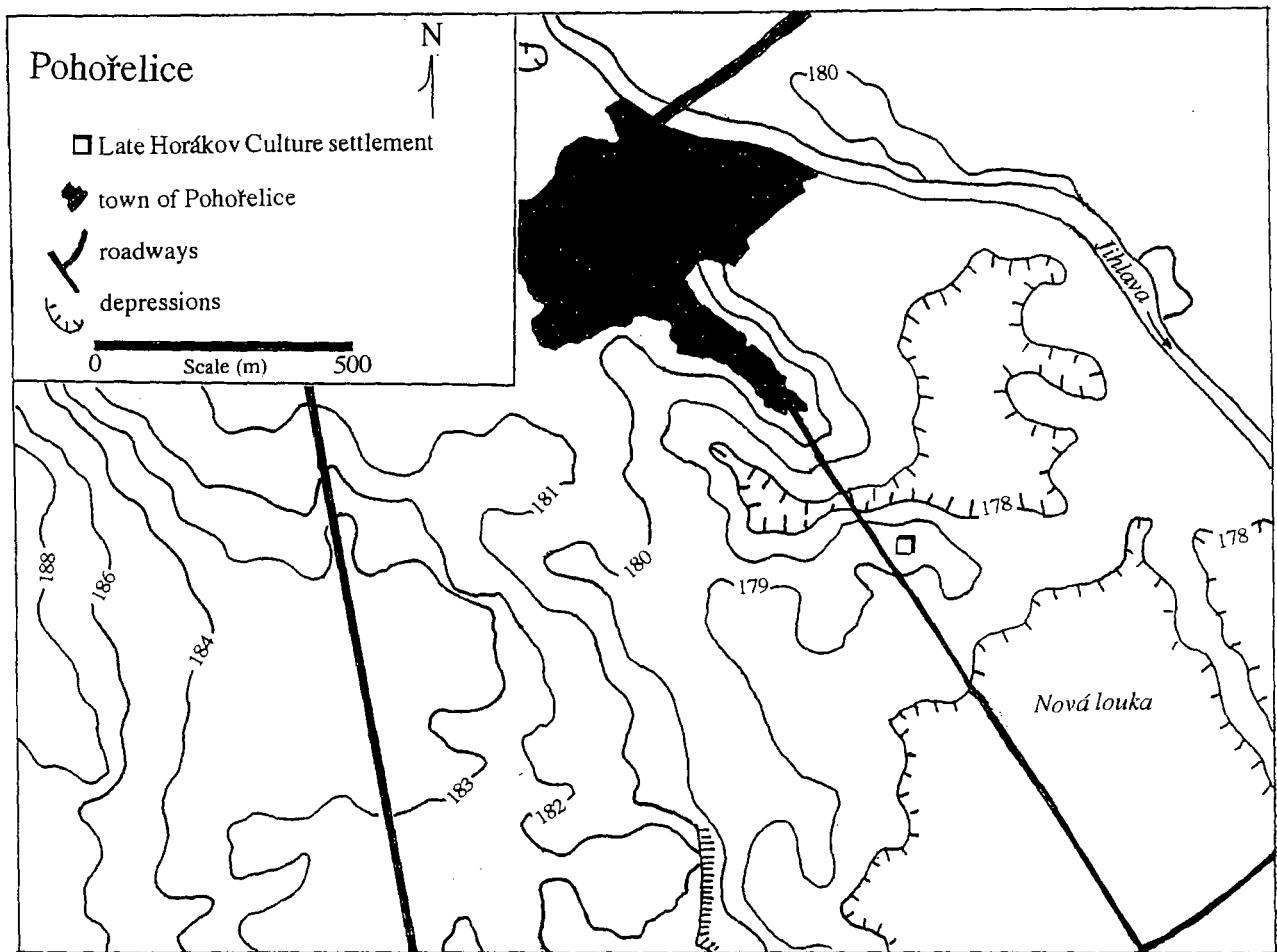


Fig. 62. Pohořelice, profile of later Horákov Feature 125.

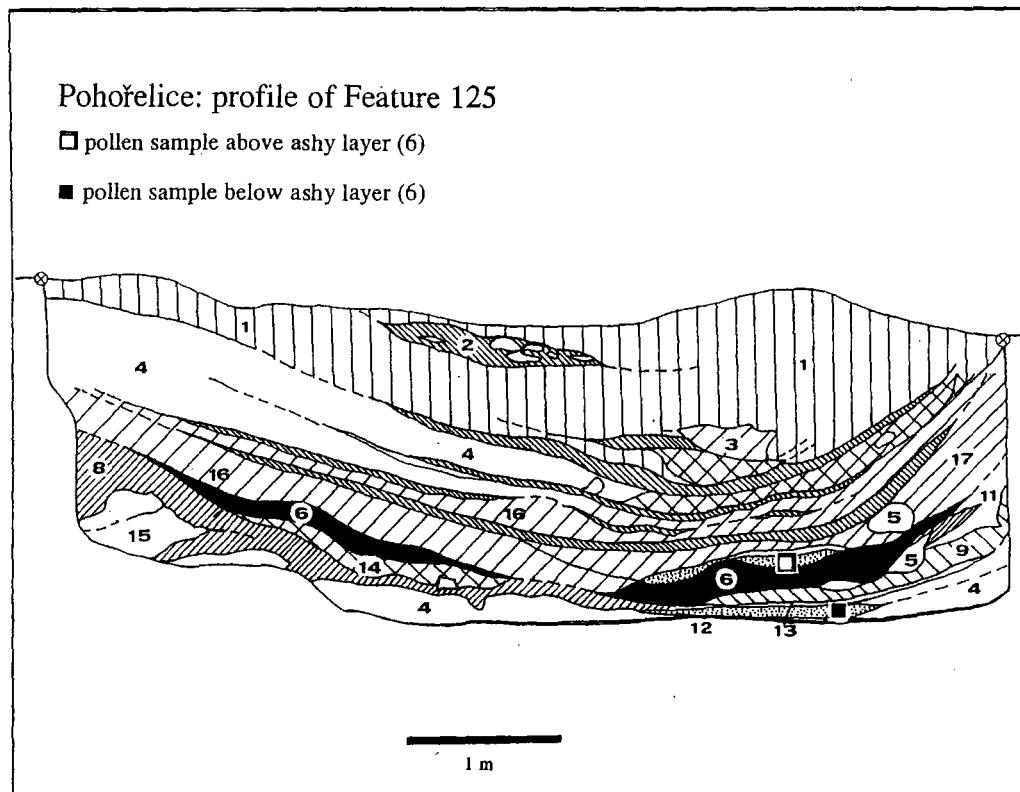


Fig. 63. Vojkovice-Pohořelice combined pollen diagram.

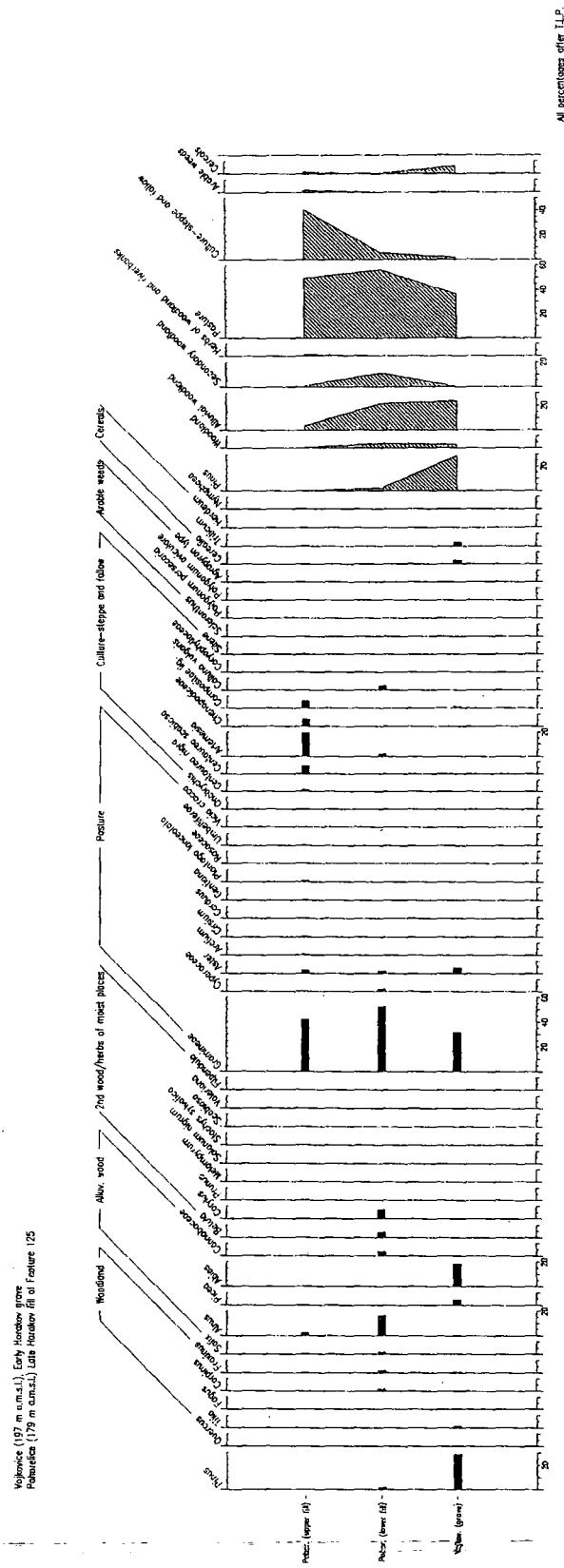


Fig. 64. Mušov-Burgstall and V Pískách, location of archaeological pollen sites (1-2).

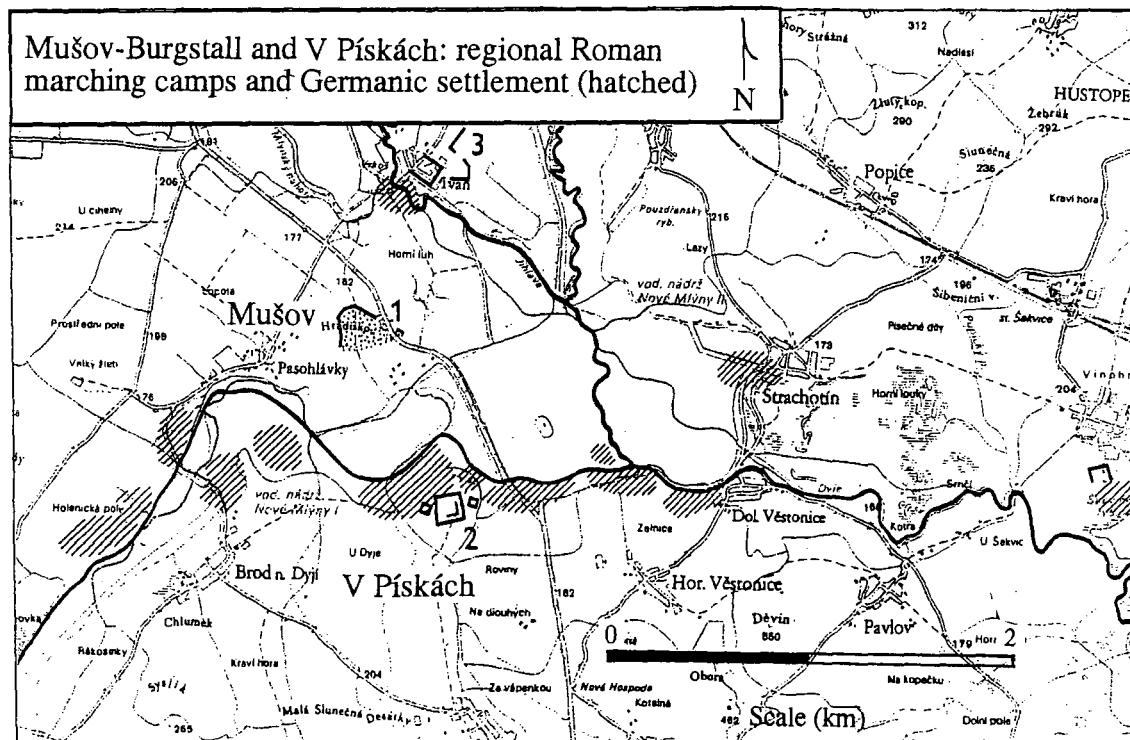


Fig. 65. Mušov-Burgstall, profile of Roman fortification ditch.

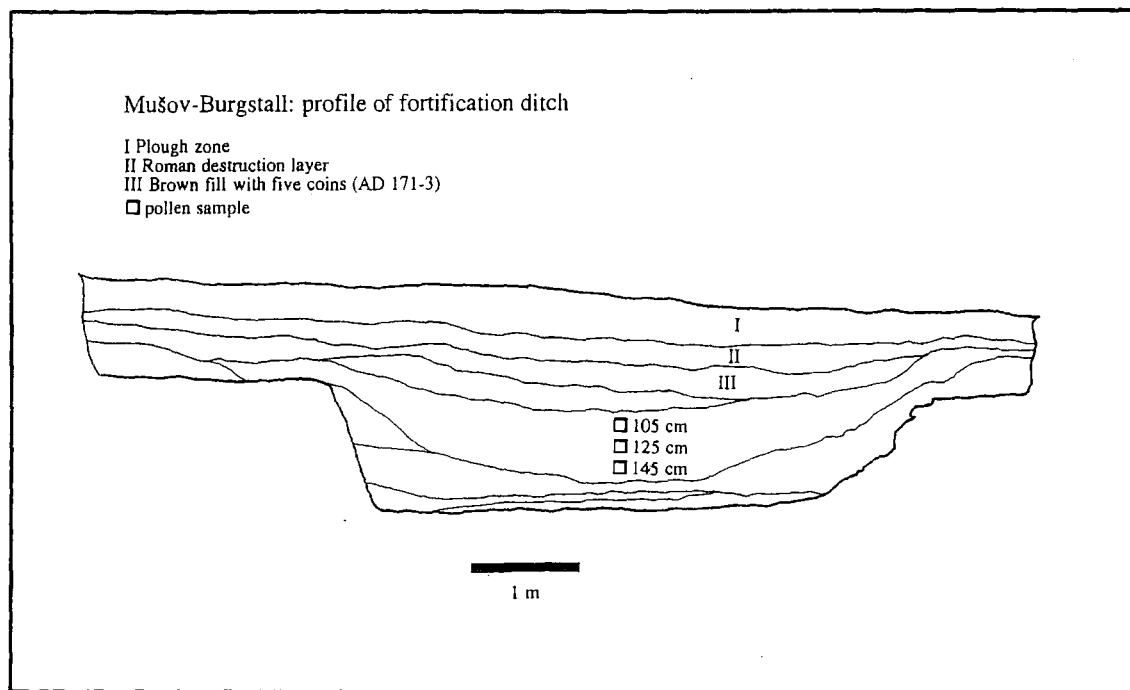


Fig. 66. Mušov-Burgstall pollen diagram.

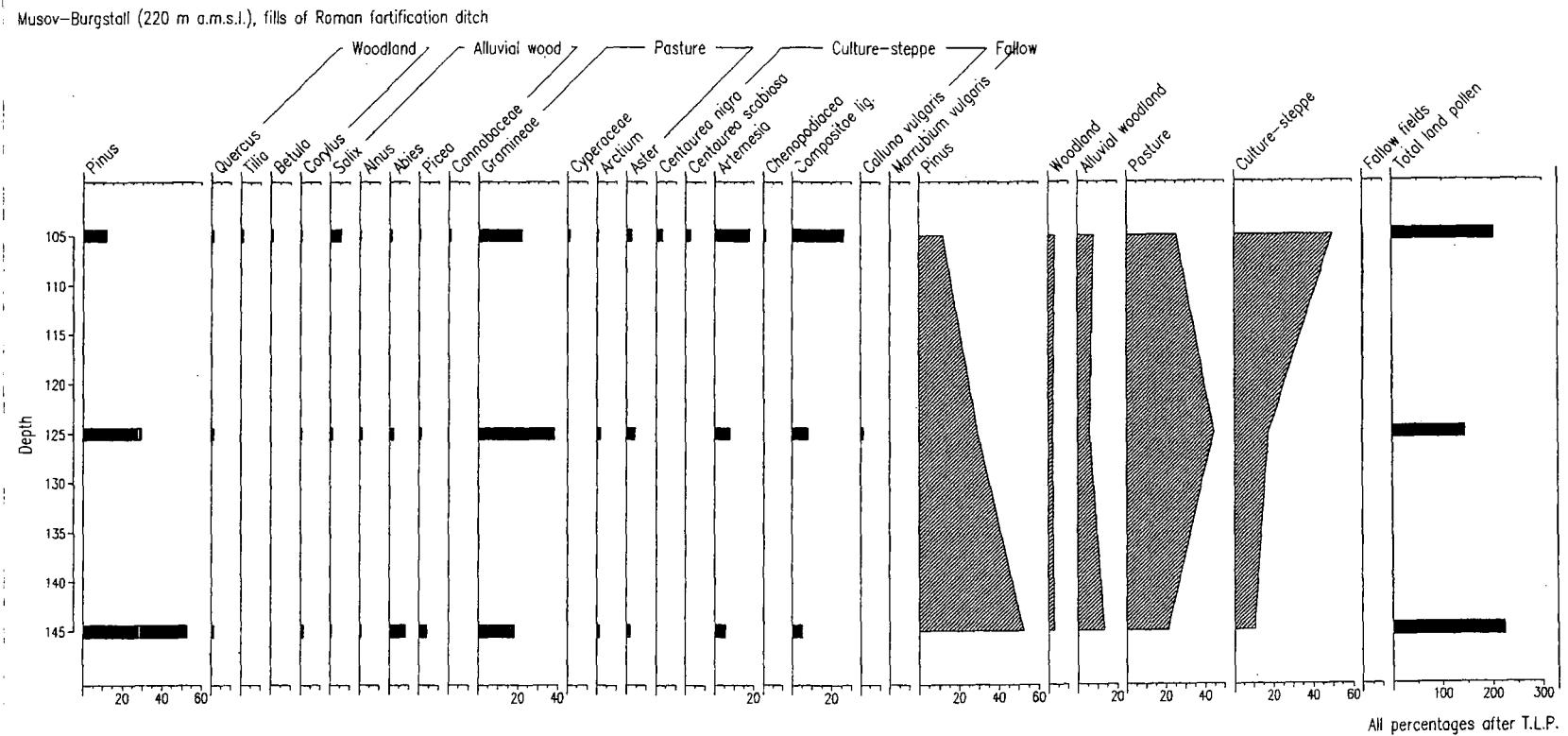


Fig. 67. V Pískáč, photo of v-shaped Roman fortification ditch from which pollen samples were taken.



Fig. 68. V Pískách pollen diagram.

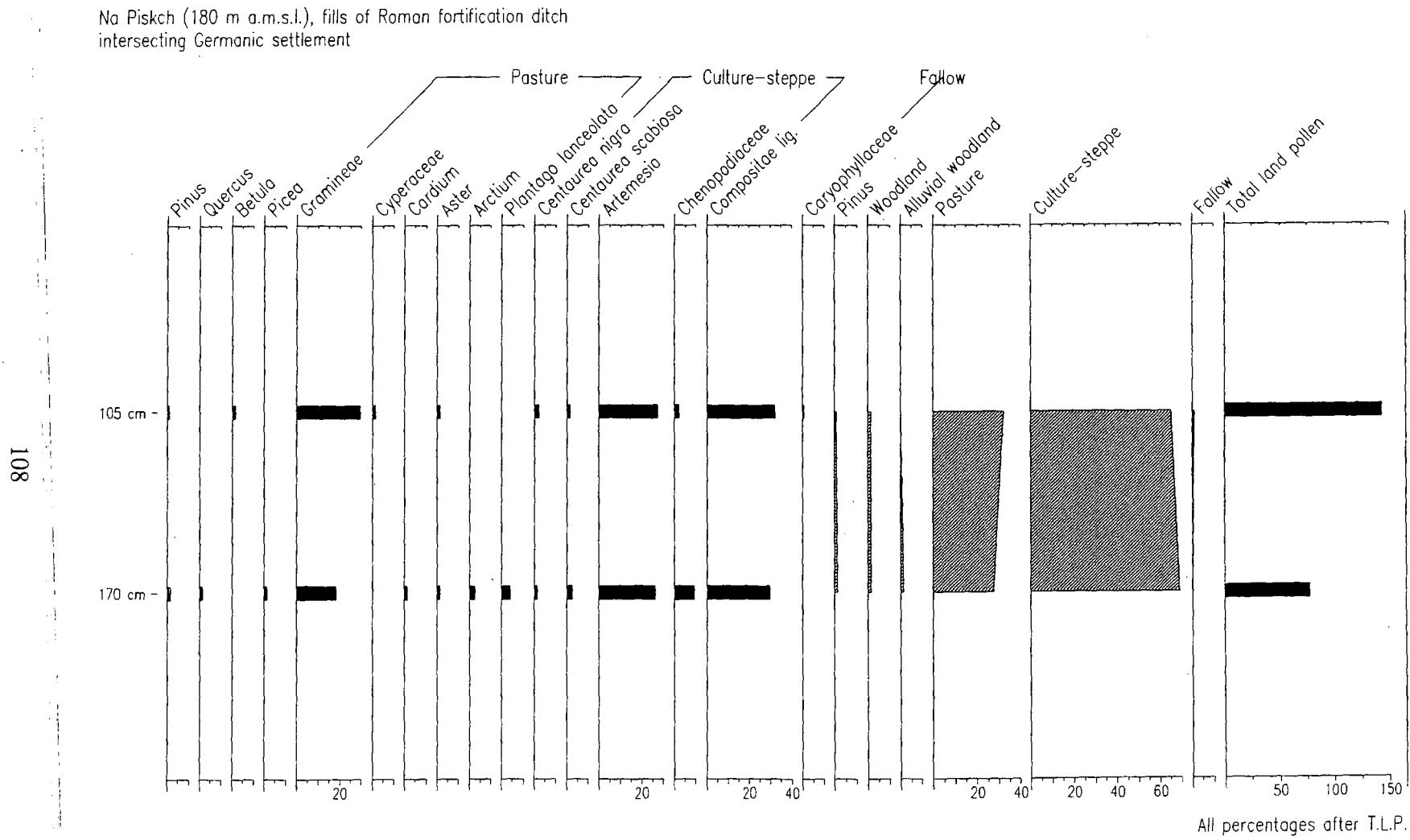


Fig. 69. Múžla Jurský Chlm, location of archaeological pollen sites (Sections 2-3).

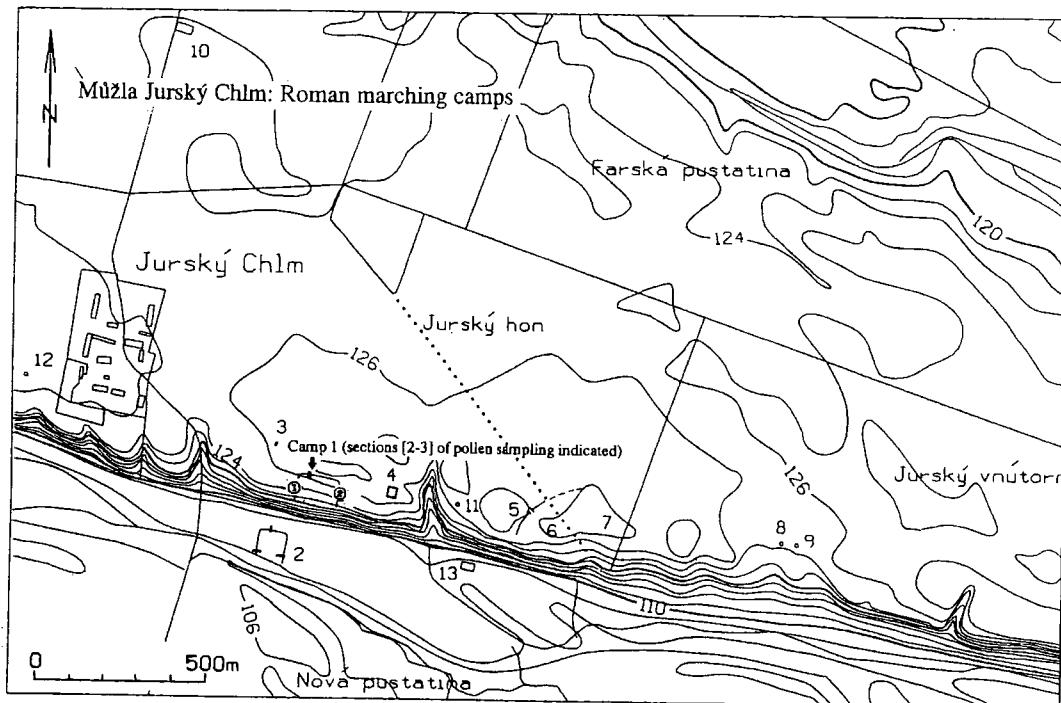


Fig. 70. Můžla Jurský Chlm, profile of Roman fortification ditch in Section 2.

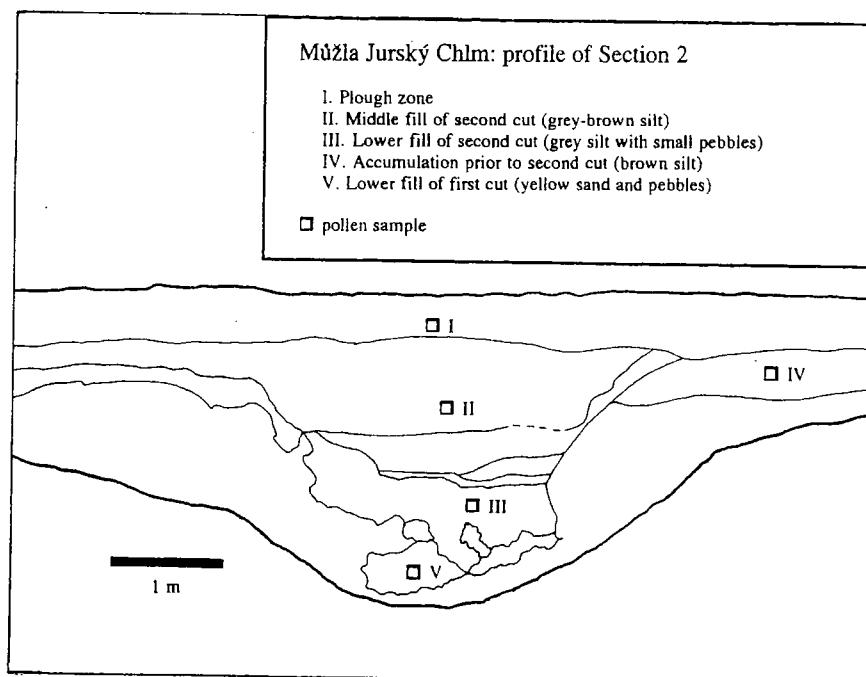


Fig. 71. Múžla Jurský Chlm, pollen diagram of Section 2.

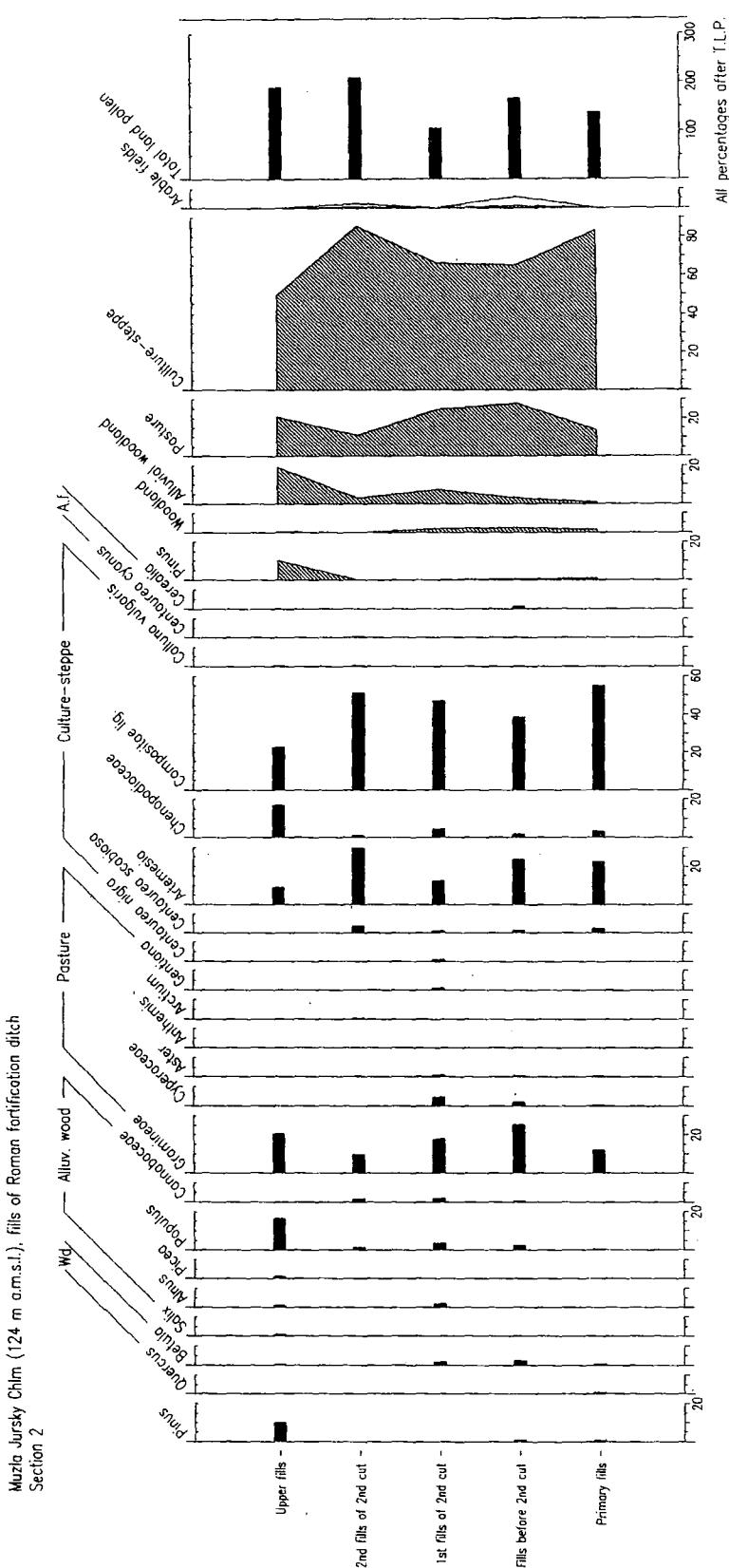


Fig. 72. Můžla Jurský Chlm, profile of Roman fortification ditch in Section 3.

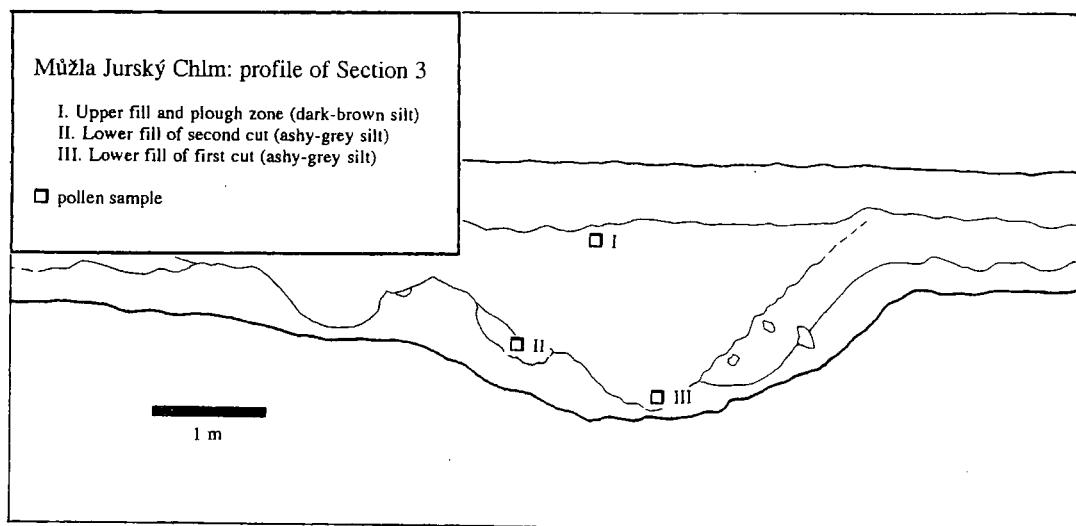


Fig. 73. Múžla Jurský Chlm, pollen diagram of Section 3.

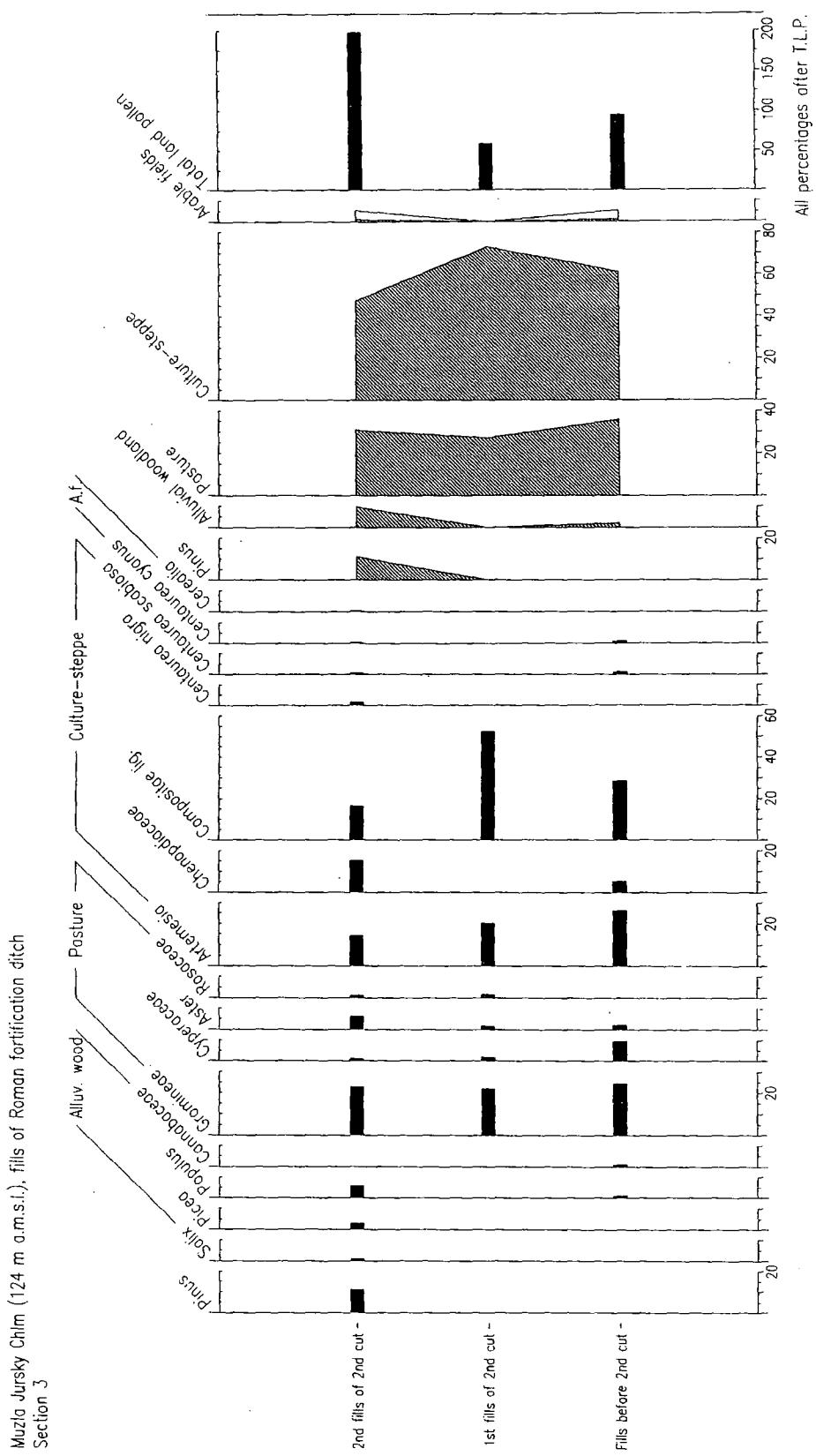


Fig. 74. Radvaň nad Dunajom, location of Roman marching camp.

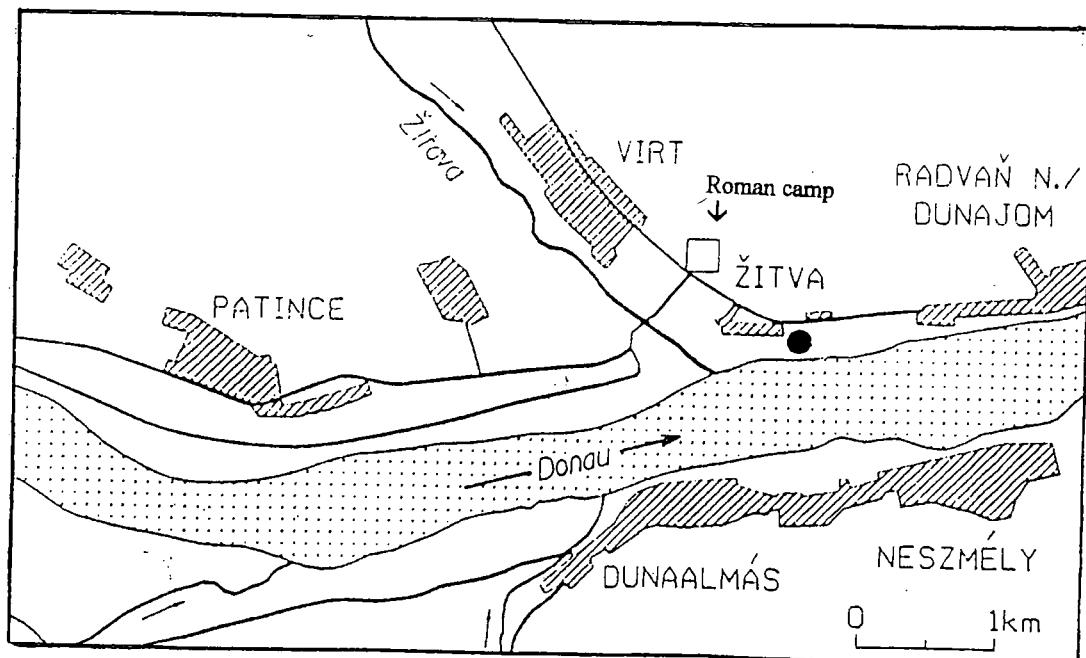


Fig. 75. Radvaň nad Dunajom, profile of fortification ditch.

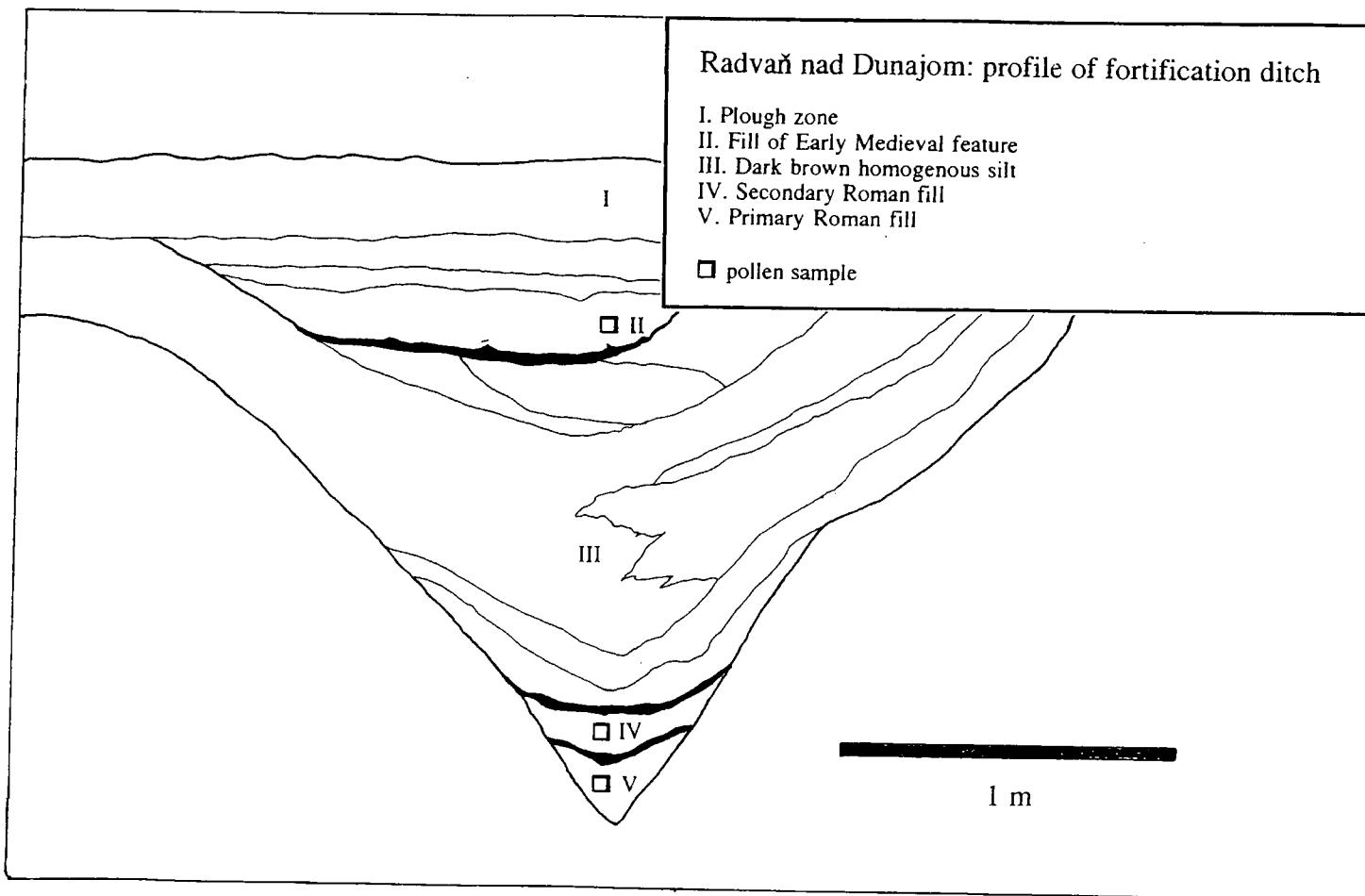


Fig. 76. Radvaň nad Dunajom pollen diagram.

Radvaň nad Dunajom (113 m a.m.s.l.), fills of Roman fortification
ditch and secondary fill of Early Medieval (8th–9th c. A.D.) feature

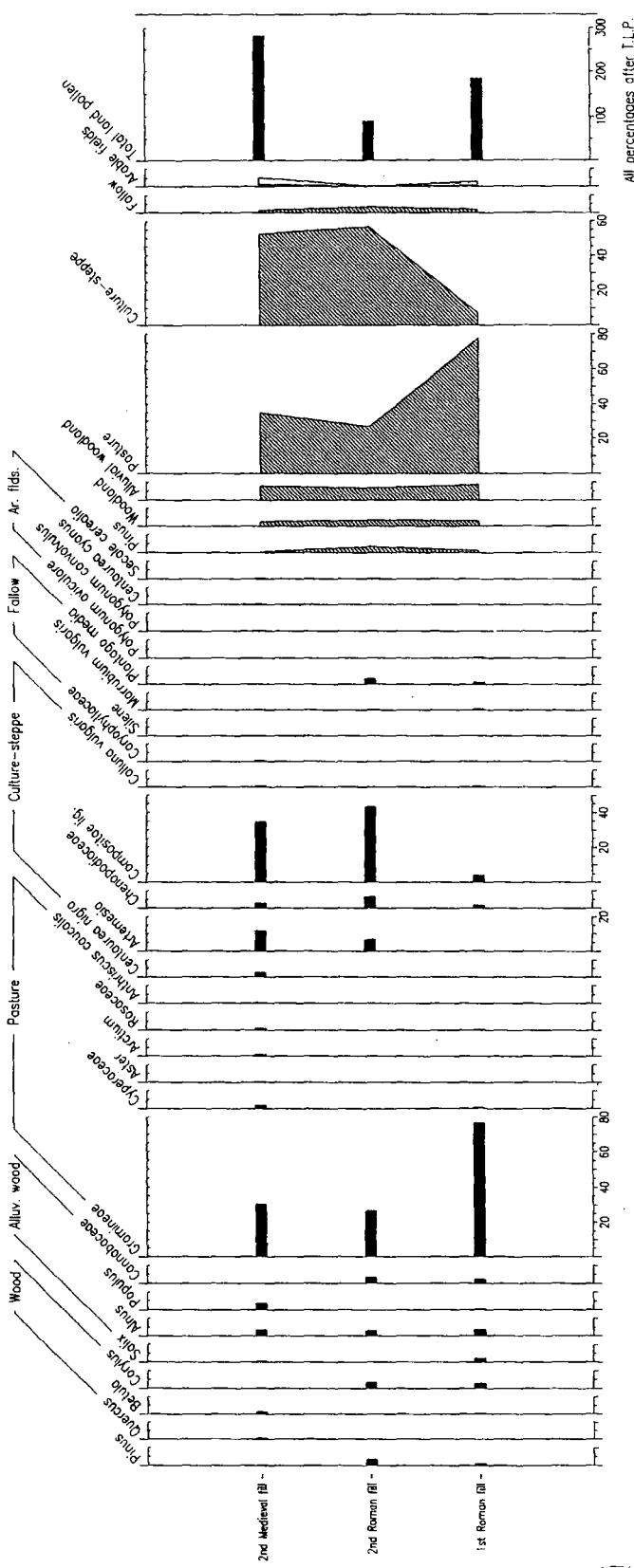


Fig. 77. Eneolithic sites in Bohemia.

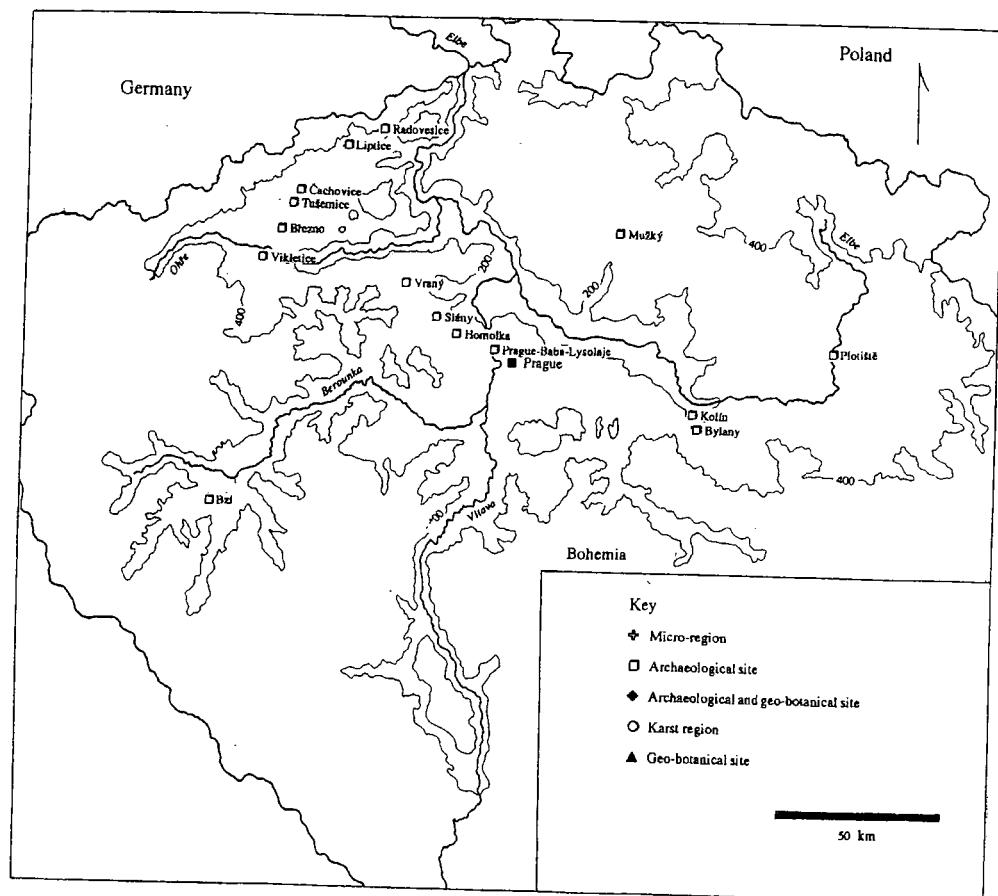


Fig. 78. Eneolithic sites in Moravia and Slovakia.

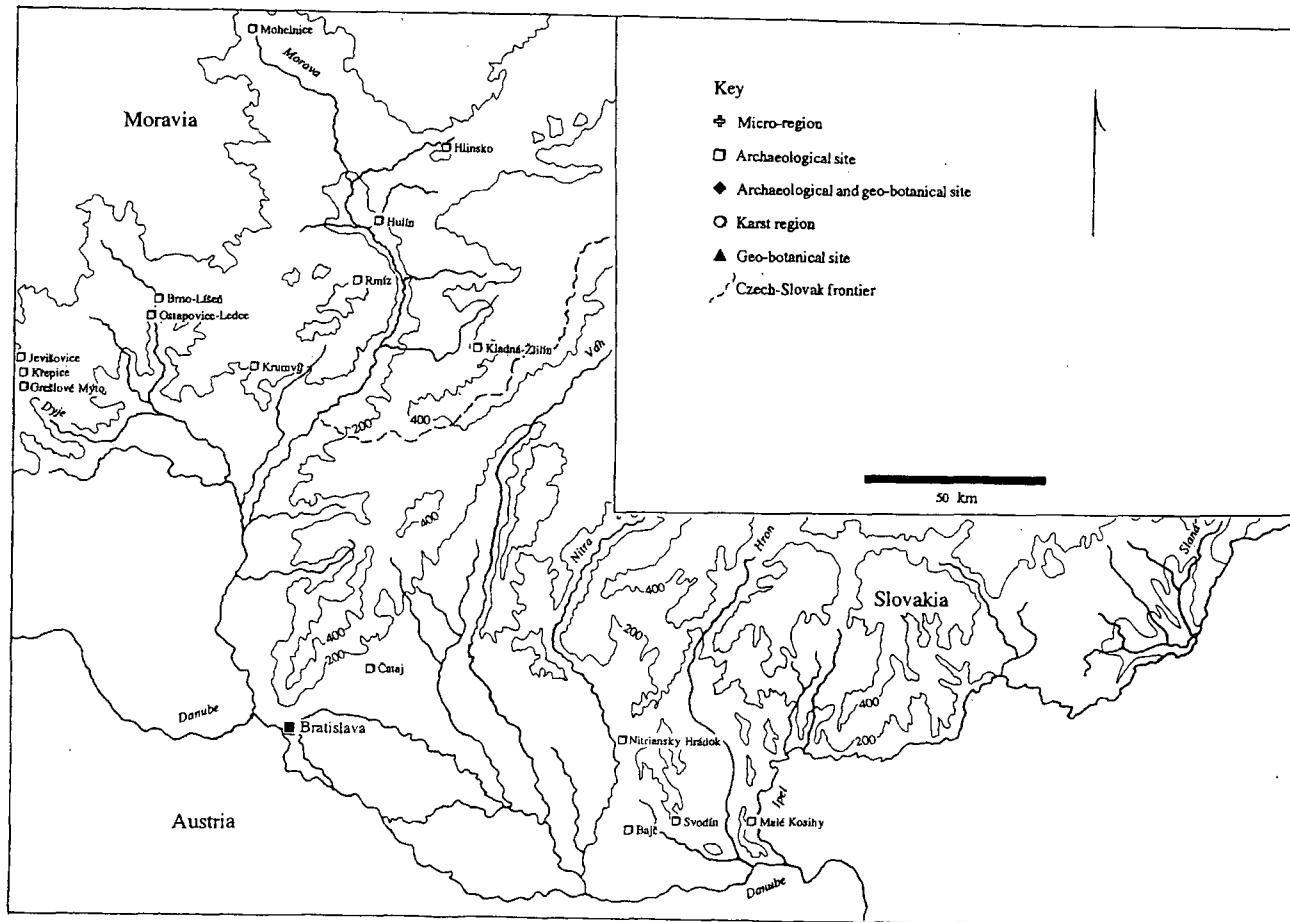


Fig. 79. Baalberg pottery depot from Božice, Southwest Moravia (after Podborský 1993). Note that the periodisation of the Funnel Beaker Culture in the Czech Republic follows primarily from closed finds in earth and stone burial mounds, thick tel-like deposits (e.g. at Slaný and Jevišovice) and closed finds such as the Božice and Mužký ceramic depots. The pedastled cup (2) is a form derived from the Jordanov Culture, albeit lacking in decoration. Note the general poverty of decorative attributes on Baalberg pottery. Multiple lugs on vessels 6 and 8 are also typical of the Michelsberg Culture. Obviously, a low attribute density makes cultural if not chronological definition problematic in flat-site assemblages, a problem compounded by the polythetic quality of Early Eneolithic material culture assemblages in general.

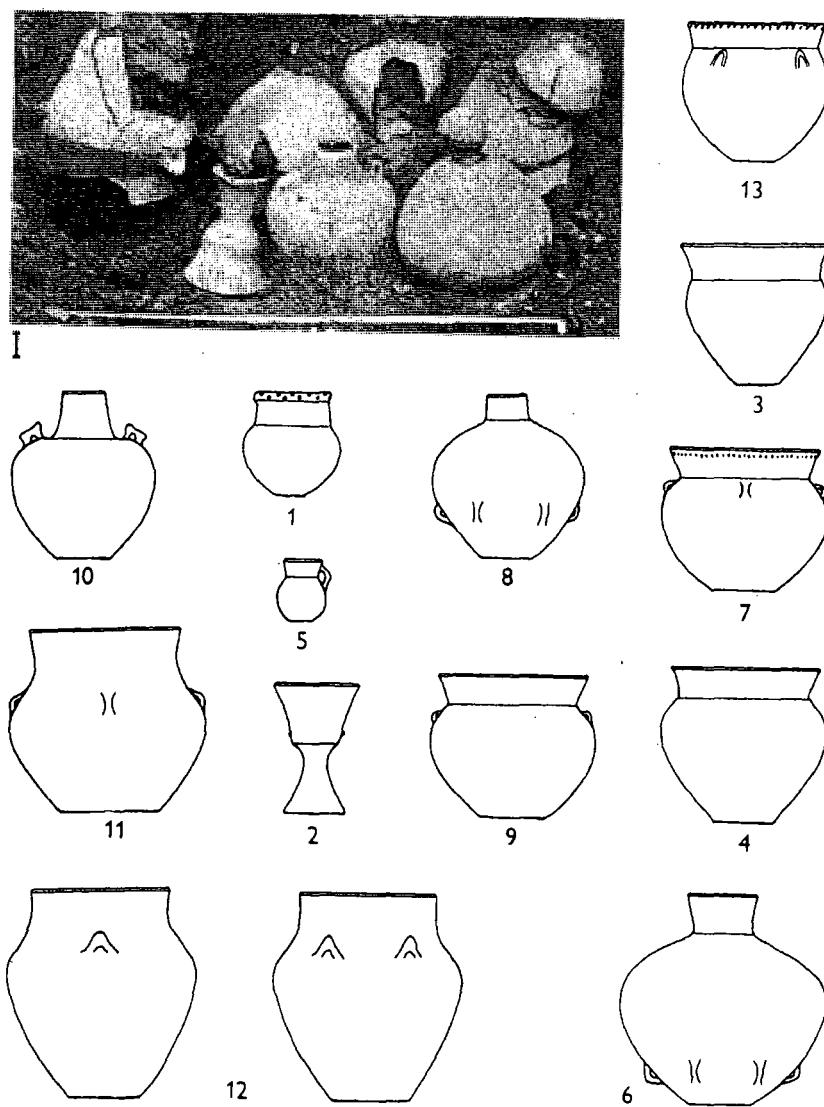


Fig. 80. Rmíz by Láskov, site plan of hill-fort of the Funnel Beaker Culture in Moravia (after Poborský 1993).

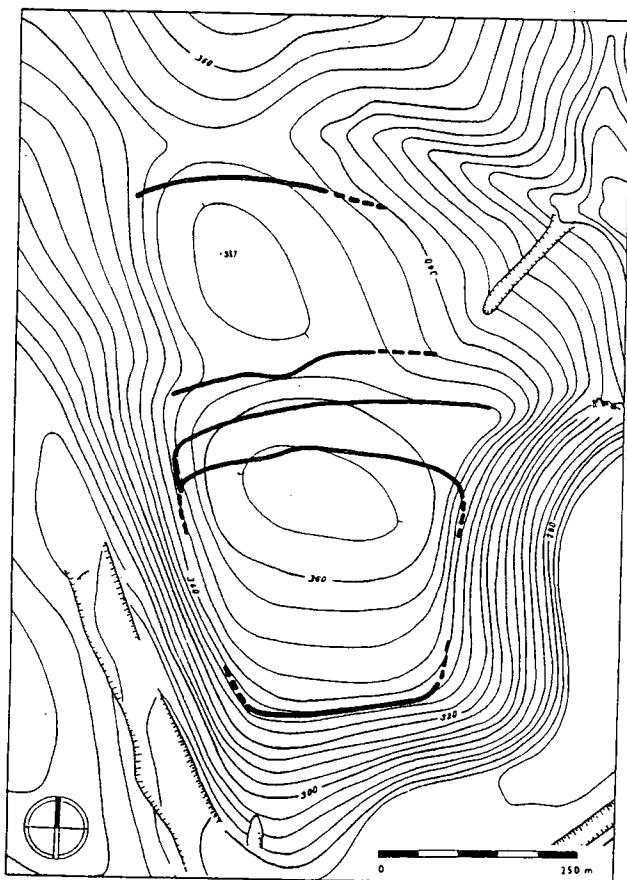


Fig. 81. Prague-Baba, Funnel Beaker site excavation map (after Havel 1986). Excavation blocks are indicated by year of excavation in black. Geo-physical survey areas are indicated by a hatched pattern. Note that the excavated area approximates that at the Middle Eneolithic site of Homolka (see Fig. 83), although only five domestic units may be discerned at Baba. Settlement at the Funnel Beaker site is dispersed over a much wider area, however, defined by the promontory as enclosed by the ditch discovered in the 1975 excavation block.

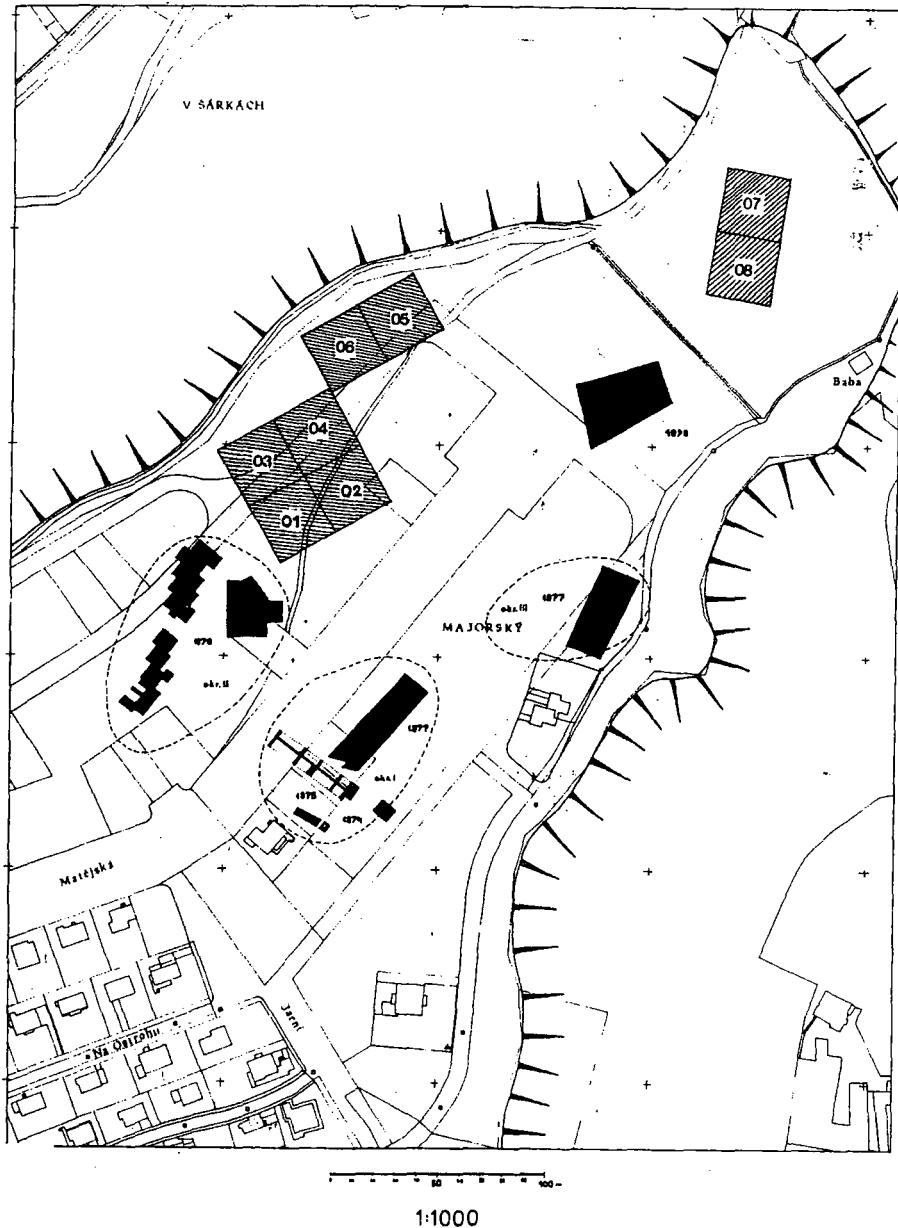


Fig. 82. Storage pit profiles from the 1976 excavations of the Funnel Beaker site at Prague-Baba (after Havel 1986).

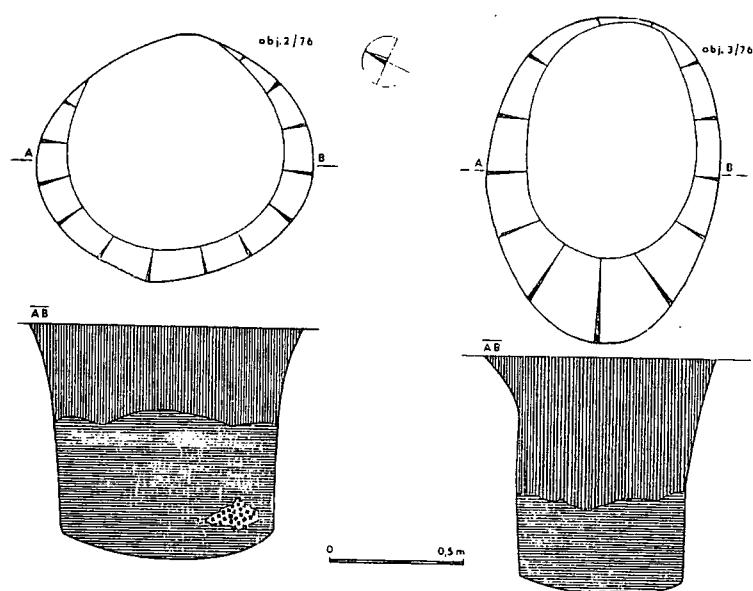


Fig. 83. Post-mould patterns of domiciles from the 1976 excavations of the Funnel Beaker occupation at Prague-Baba (after Havel 1986). Oblong pit features designated as houses by the excavator most likely served some auxiliary purpose. One storage and one oblong pit can be assigned to each domicile, producing an Early Eneolithic 2:1 ratio of sub-surface features per domicile.

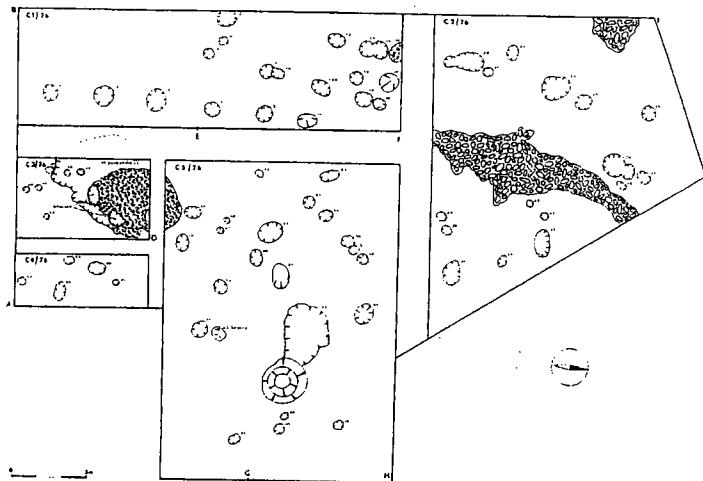


Fig. 84. Domiciles of the Middle Eneolithic period in Moravia (after Medunová-Benešová 1964 and Podborský 1993). Reconstruction of Bošáca Group house from Hlinsko on left follows a sleeper beam construction technique. A similar construction technique is evident in the case of Channeled Ware (above right) and Jevišovice Culture (below right) houses from Brno-Líšeň. In these three cases (in addition to Homolka), a ratio of one sub-surface storage pit per domicile can be observed. The same (1:1) ratio is employed in the reconstruction of minimal domestic clusters at the Middle Eneolithic occupation of Grešlové Mýto (see Chapter 9).

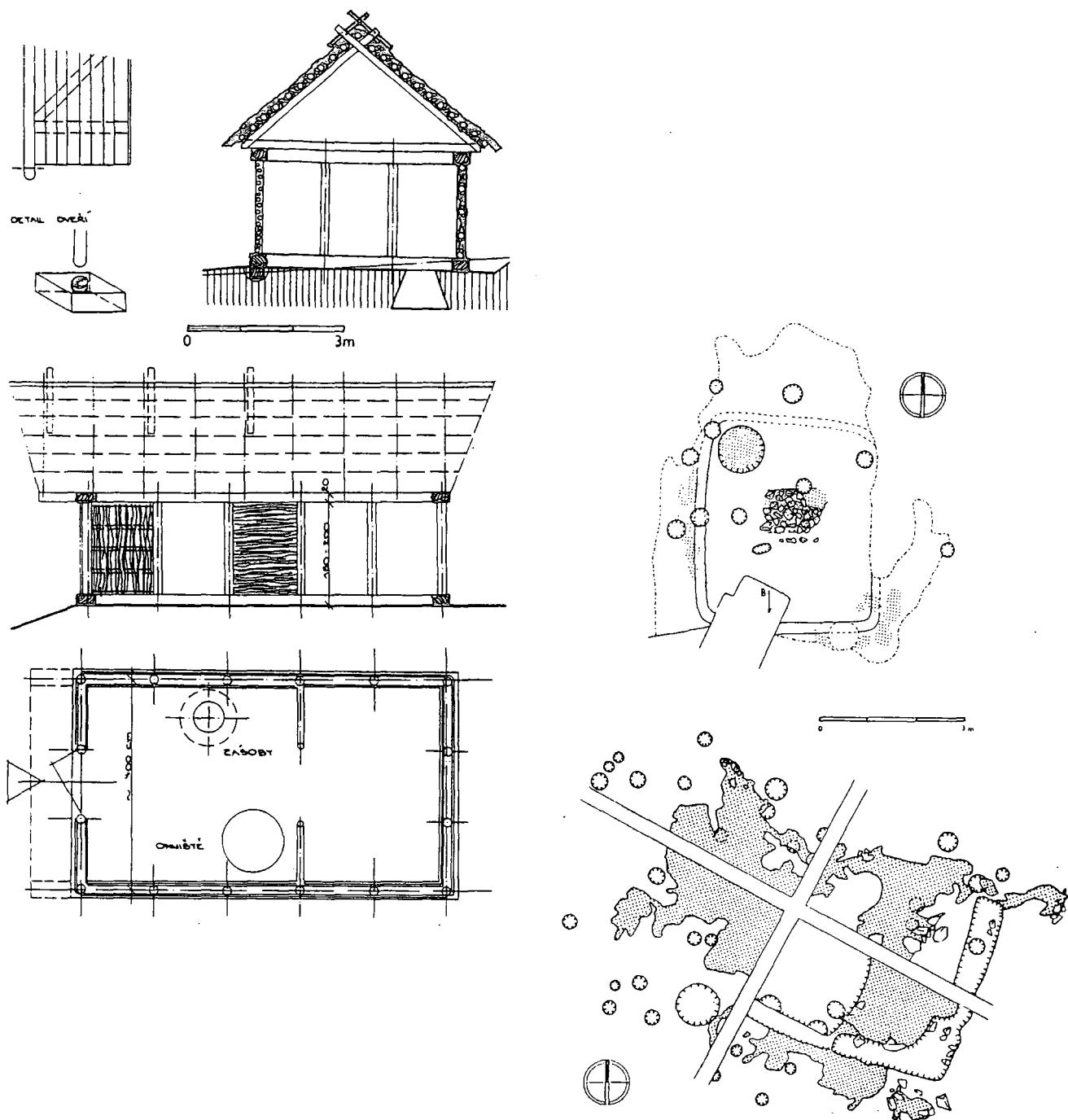


Fig. 85. Site plan of the Řívnáč Culture settlement at Homolka (after Ehrich and Pleslová-Štichová 1968). Note that preserved hut plans at the site perimeter contain an average of one substantial sub-surface feature (a storage or midden pit) per hut unit. Population estimates at the site also account for presumptive hut units (calculated after a 1:1 sub-surface feature to domicile ratio) at the eroded site centre. Note also the minor extension of the southern palisade during the second (Globular Amphora) phase of occupation.



Fig. 86. Vraný, site plan of the excavations of A. Knor (after Pleslová-Štichová 1981).

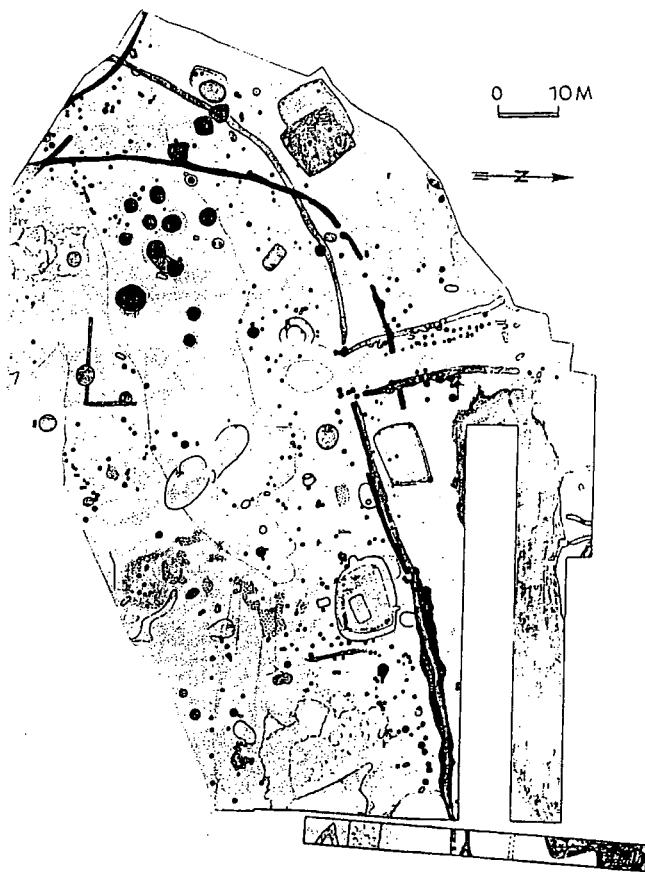


Fig. 87. Vikletice, central cemetery cluster (after Buchvaldek and Koutecký 1971). Note that outlying graves recovered from a (ca.) 100 hectare area surrounding the central cluster are also included in Neustupný's (1983) demographic analysis.

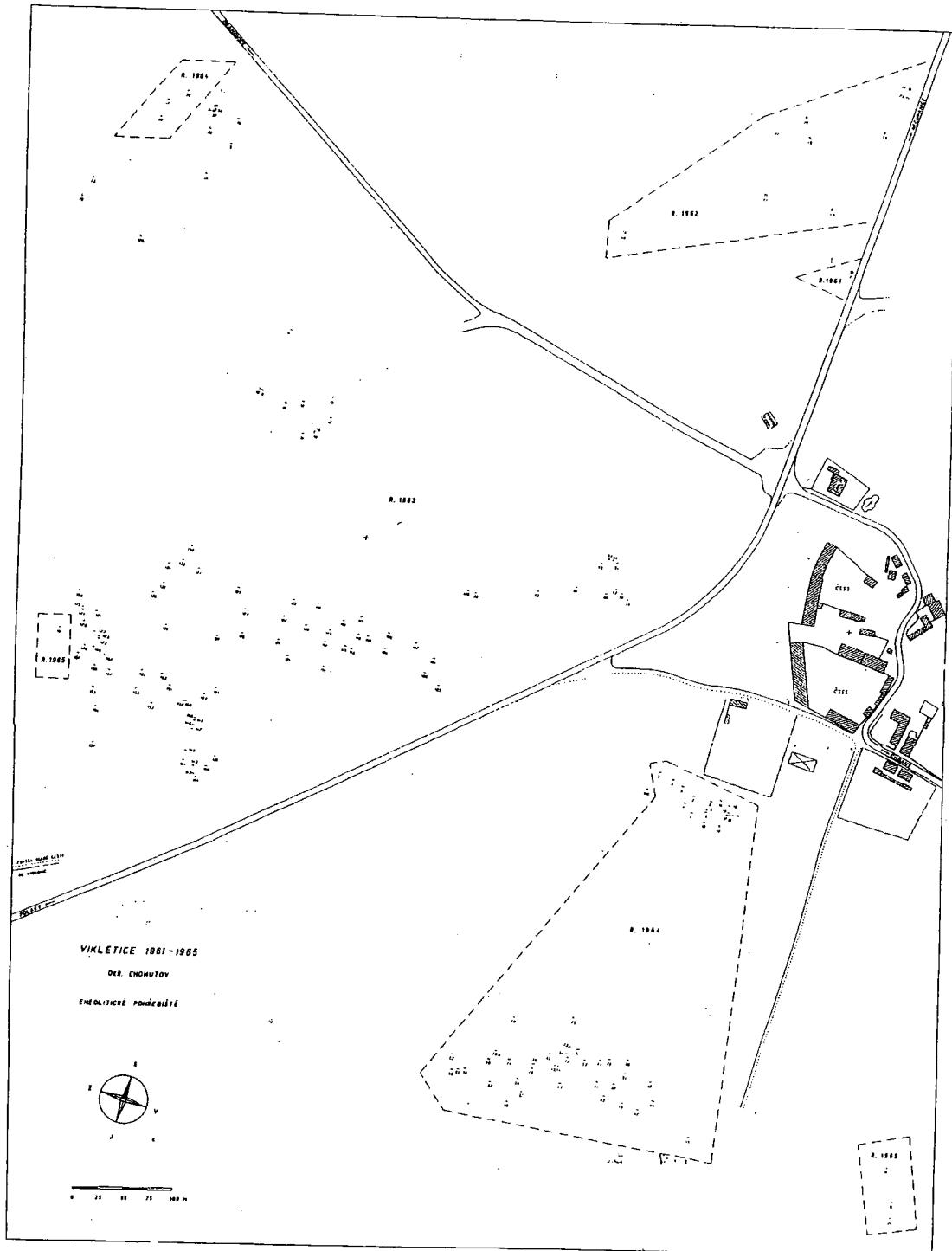


Fig. 88. Čachovice (Northwest Bohemia), Grave 14 of the Corded Ware Culture Find Group II (after Neustupný and Smrž 1989). Note the right-sided (E-W) placement of the male skeleton, common to all male Corded Ware graves in the Czech Republic. Chipped- and ground-stone axes and mace-heads are also found exclusively with male graves.

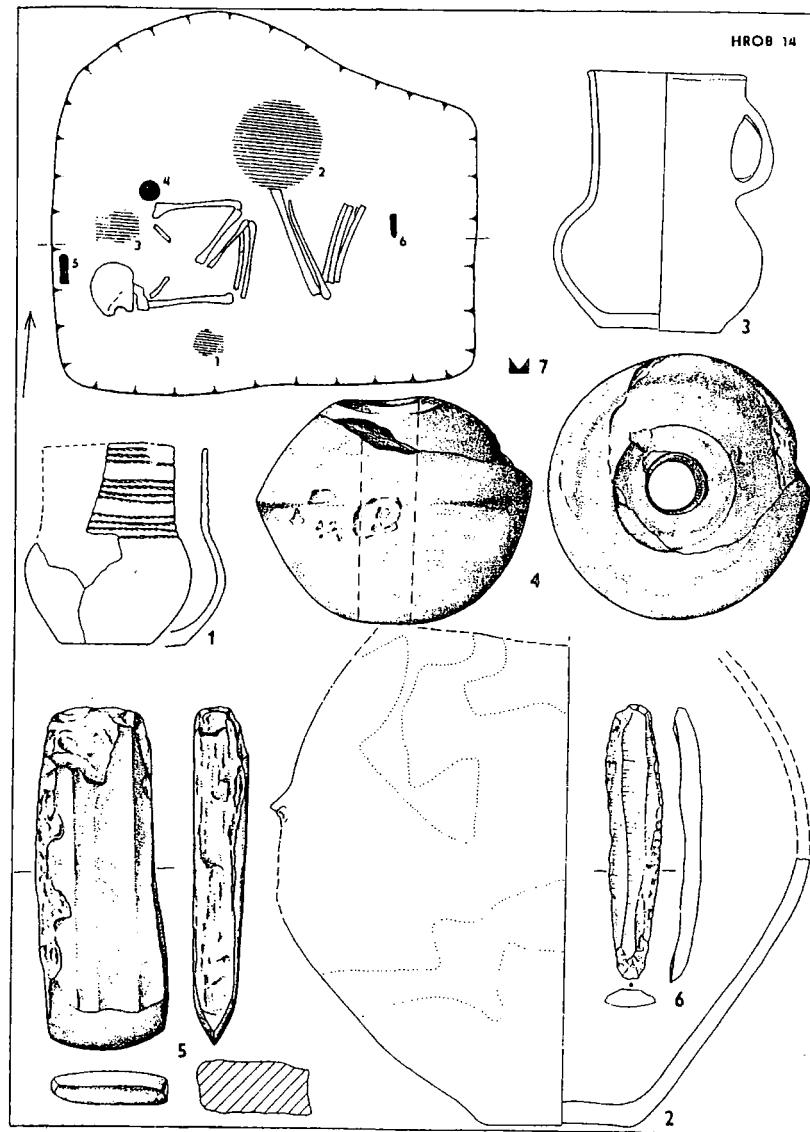


Fig. 89. Ostrovce, Grave 19/70 of the Moravian Bell Beaker Culture (after Dvořák 1992). Right-sided (N-S) inhumations are now employed for female burials, males being placed on their left. Anthropological analyses by J. Langová determined that this grave contains a young adult female, aged 20-30 years. Note that jet v-perforated buttons, boars tusks, and certain beaker types placed in the grave are more typical of male inhumations of this culture.

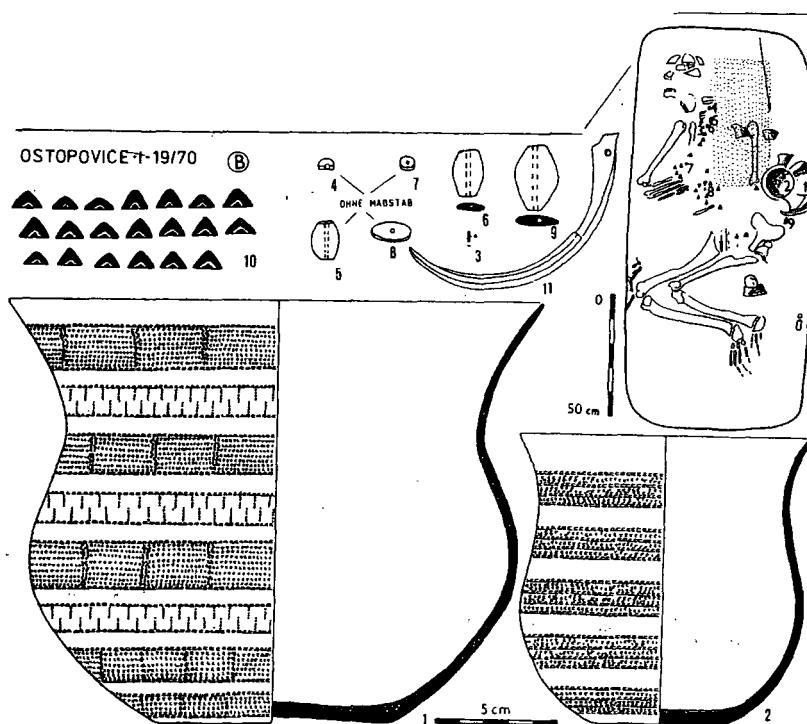


Fig. 90. Ledeč, Graves 1/36 and 1/62 of the Moravian Bell Beaker Culture (after Dvořák 1992).
 Anthropological analyses by J. Langová determined that these dagger equipped graves contain adult females.
 Note that these copper daggers are smaller than the modal average for this culture, suggestive of their symbolic
 role towards the ascription of a generalised social rank rather than a specific warrior-hunter status to the dead.

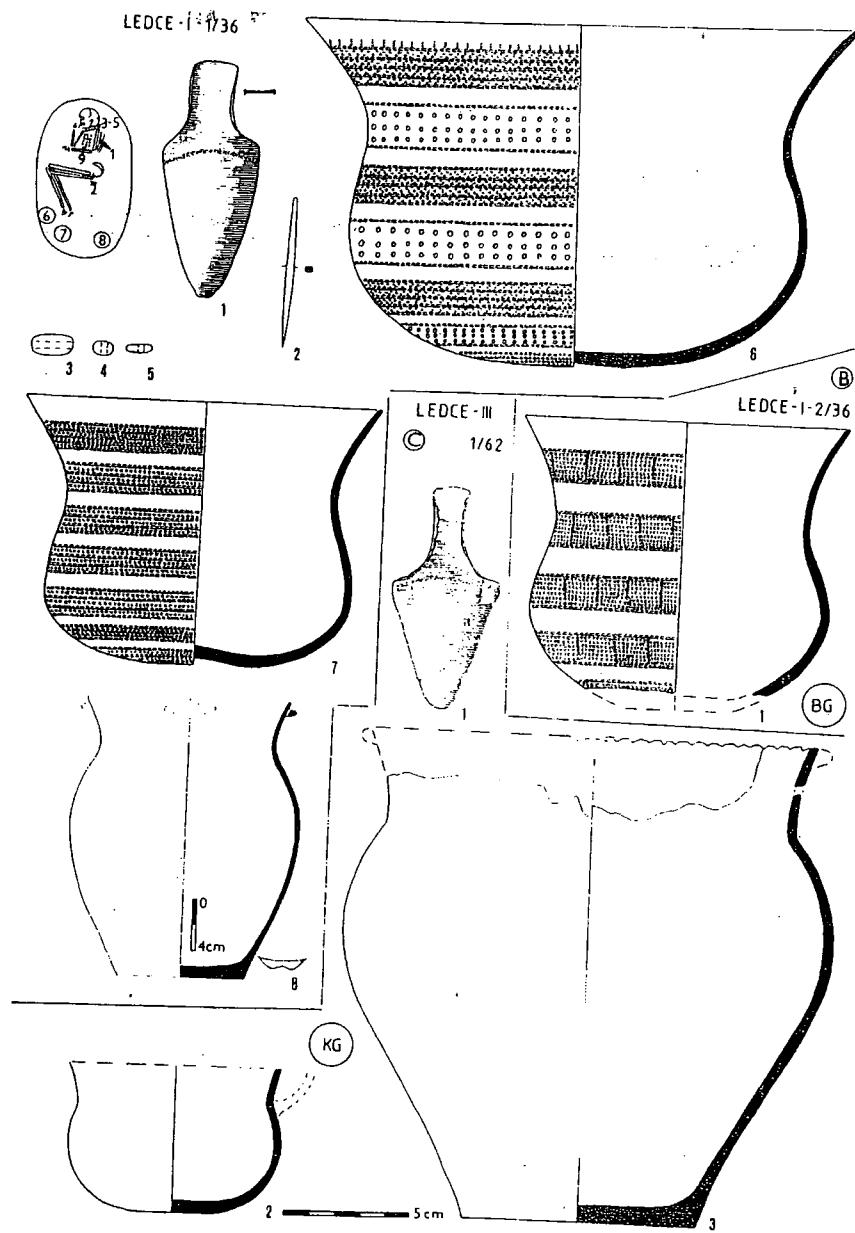


Fig. 91. Radovesice, Grave 116 of the Bell Beaker Culture in Northwest Bohemia (after Teplice Museum n.d.). A right-sided (female?) inhumation with a copper awl, a small copper dagger, gold head band (3), banded beaker and handled metoped beaker (a late type). A male hunter-warrior grave (117) lies by this relatively spacious burial pit. A similar gold band has also been found in a Late Bell Beaker chambered tumulus at Tvoříhráz in South Moravia.

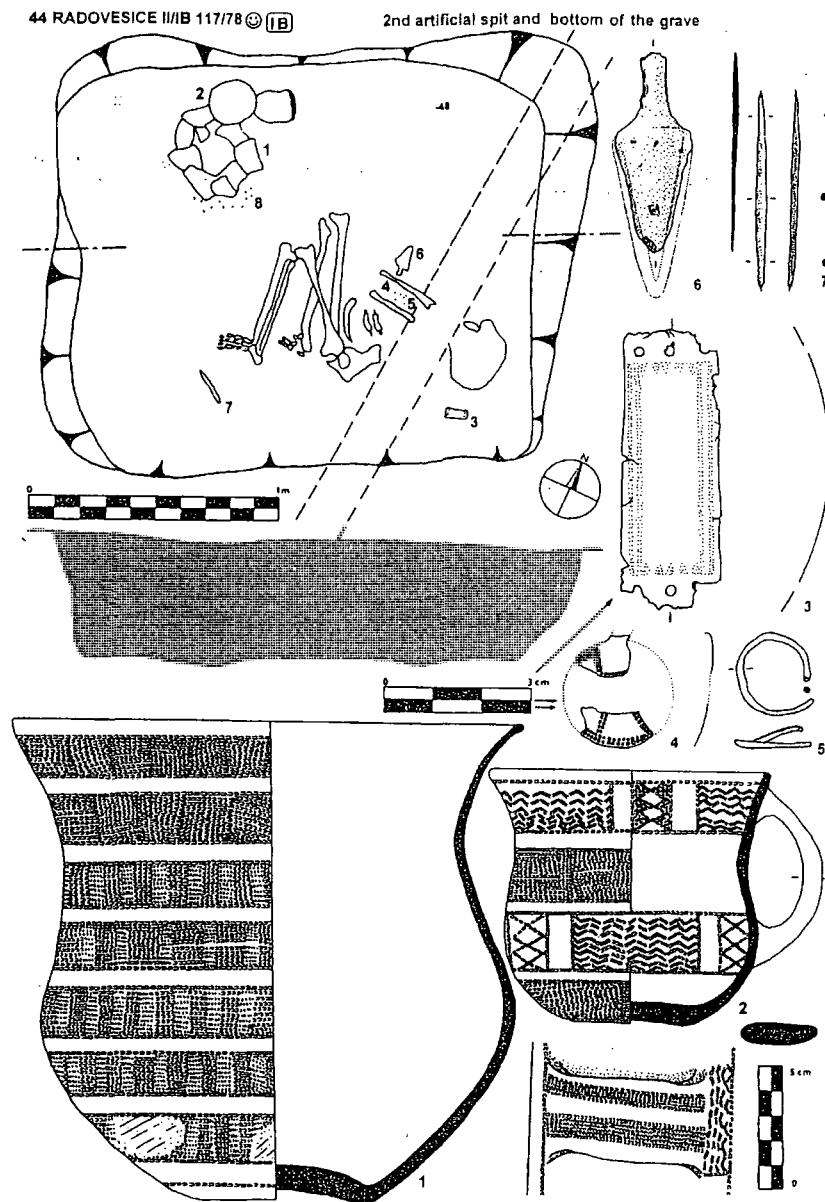


Fig. 92. Liptice, hut feature 11/82 of the Late Bell Beaker Culture with Begleitkeramik finds from culture pit 9-10/82 (after Teplice Museum n.d.).

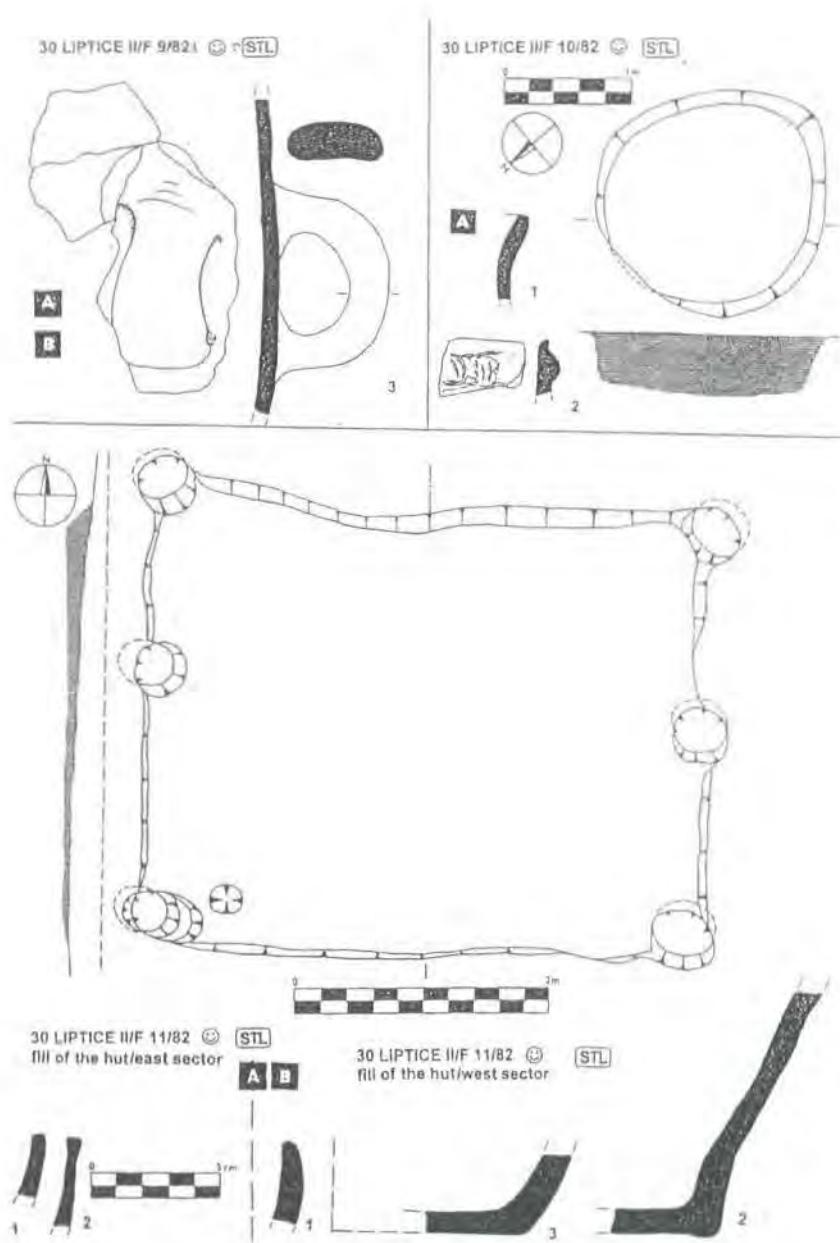


Fig. 93. Bzí (Southwestern Bohemia), collection of ground-stone celts (after Franc 1906). Note that celt and axe production increases dramatically during the Eneolithic, perhaps as demanded by more extensive land-use patterns which required the felling of larger tracts of woodland.

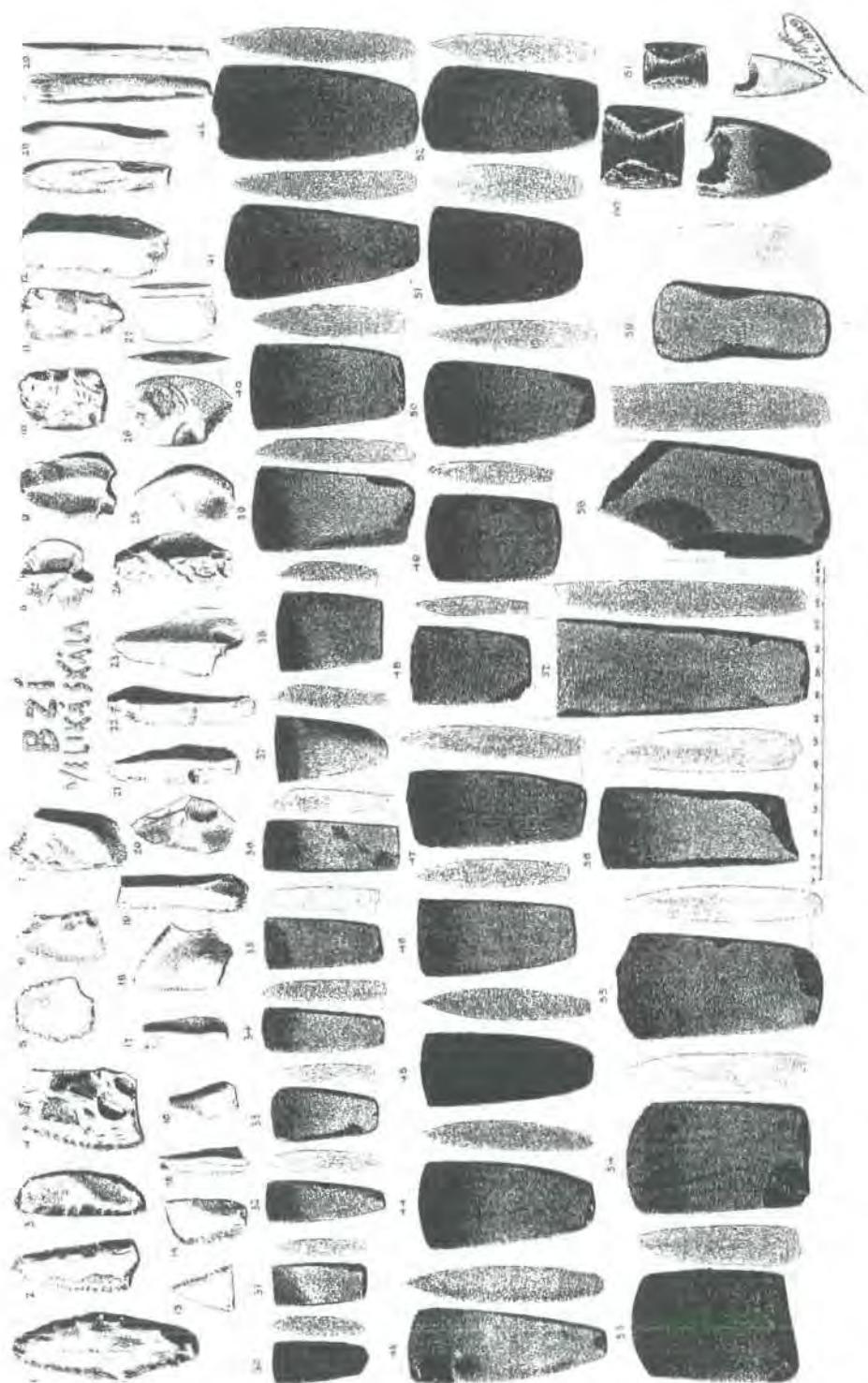


Fig. 94. Bronze Age sites in Bohemia.

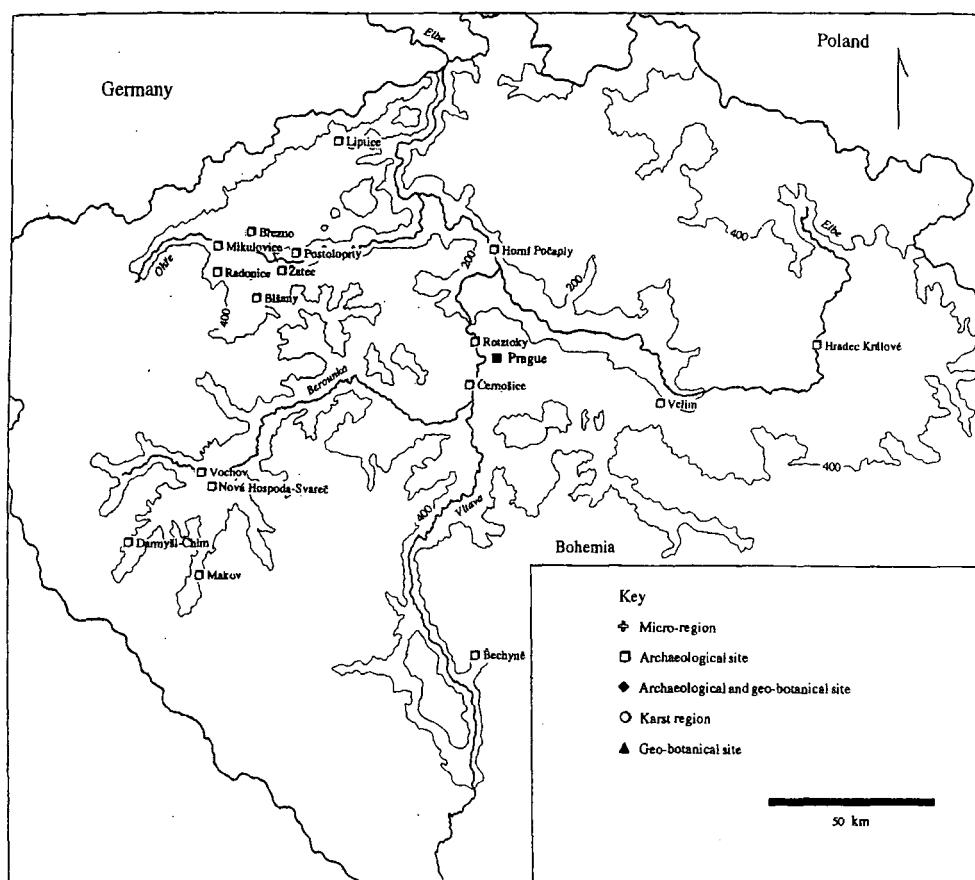


Fig. 95. Bronze Age sites in Moravia and Slovakia.

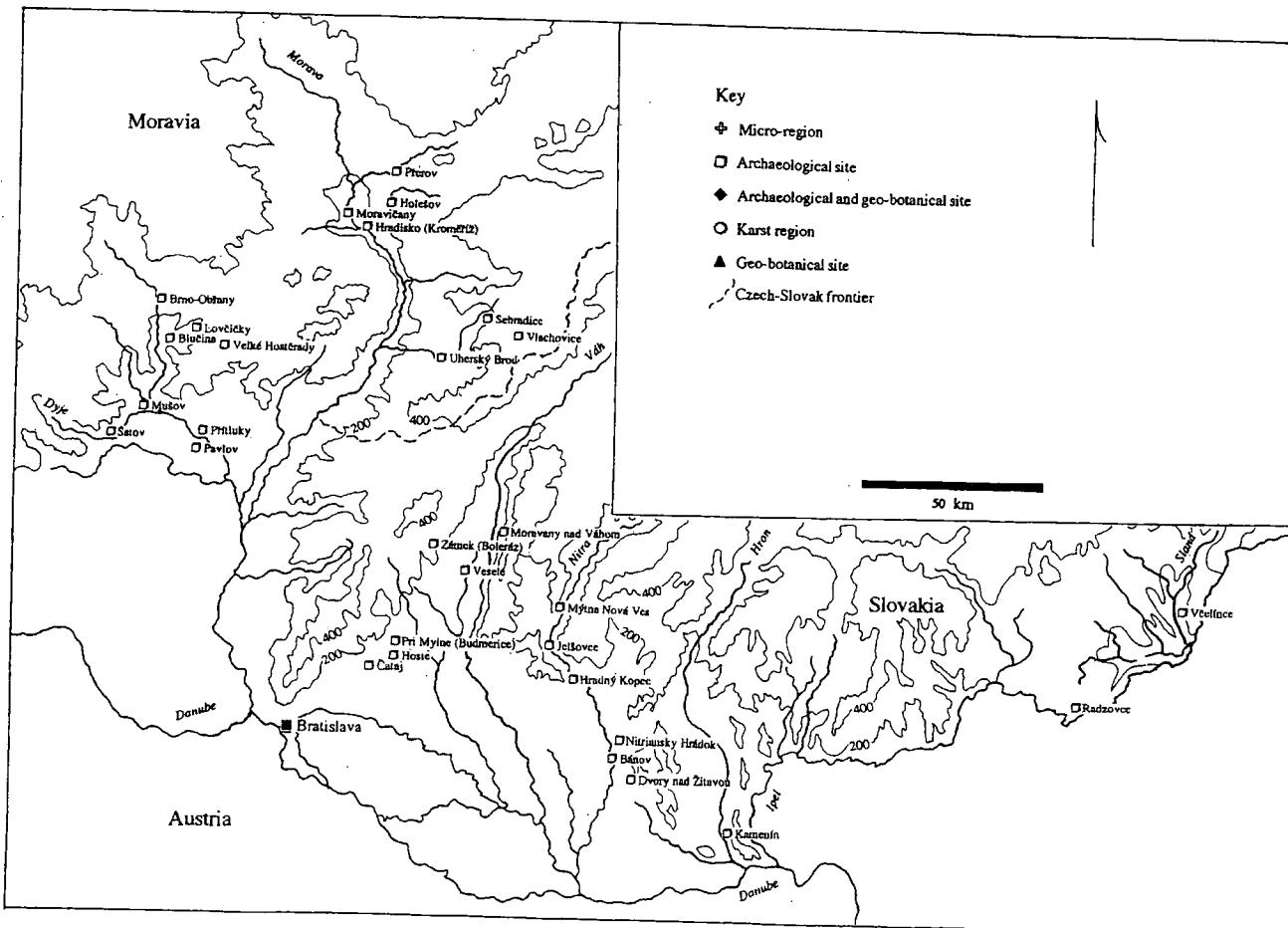


Fig. 96. Jelšovce, Grave 444 of the Late Nitra Culture (after Bátor 1990). Note wooden subterranean chamber and above-ground funerary structure. The so-called frog position (cf. stirrup-less riding position) of this burial has antecedents in the Eastern Carpathian Basin, and might reflect the influence of horse using groups in the latter region.

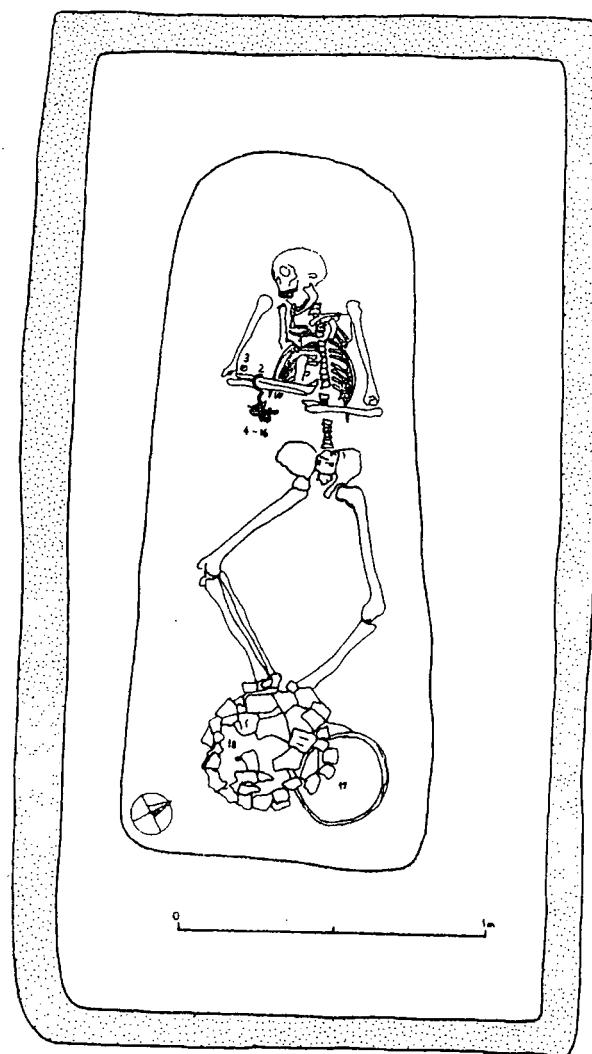


Fig. 97. Nitriansky Hrádok, interior reconstruction and floor plan of hut from Sector G/19 (after Točík 1981). Note the presence of substantial clay oven in house interior.

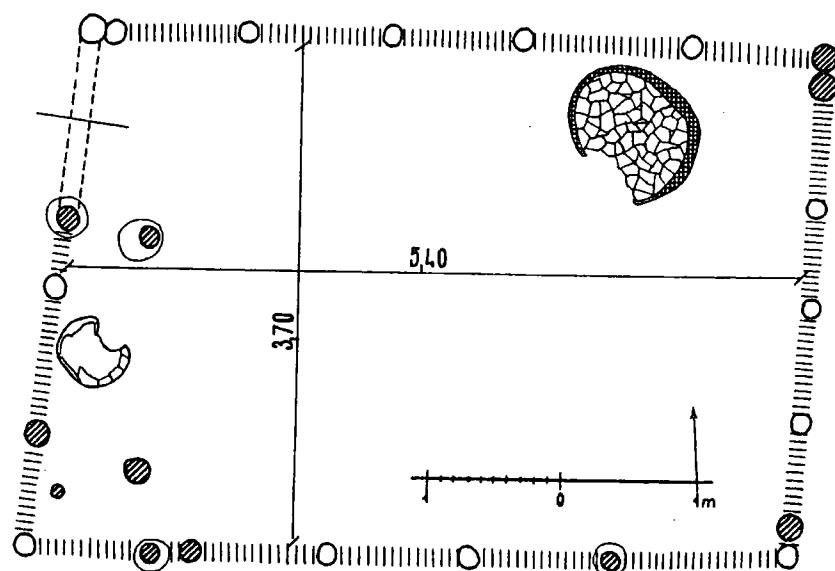
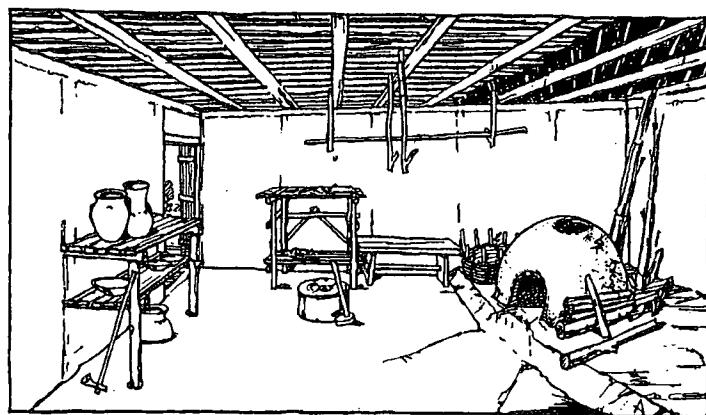


Fig. 98. Nitriansky Hrádok, floor plans of huts from sectors H/23-4 (after Točík 1981). Note the differential erosion of clay floors (dashed hatching) and post-moulds (not preserved in the above hut). Clay oven remains (after pattern in previous figure) are well preserved in both cases.

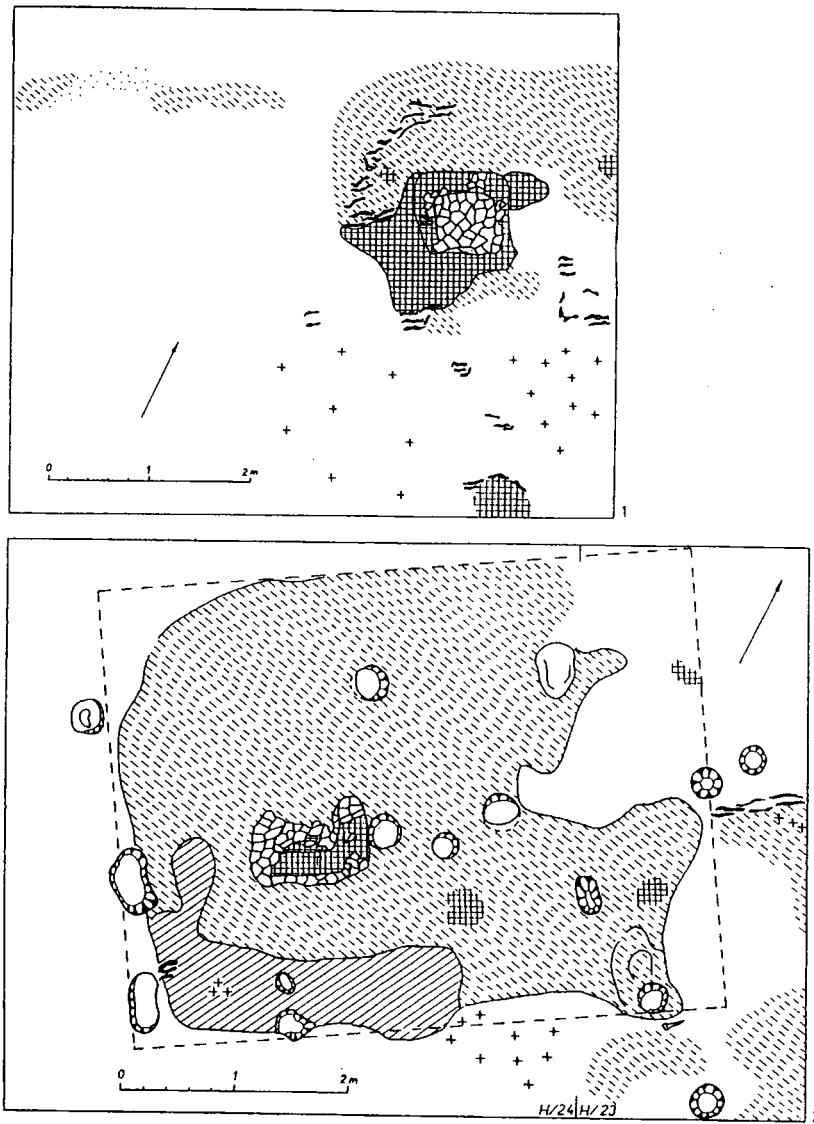


Fig. 99. Classical Mad'arovce Culture settlement in Nitra City (adapted from Bátorá 1993).

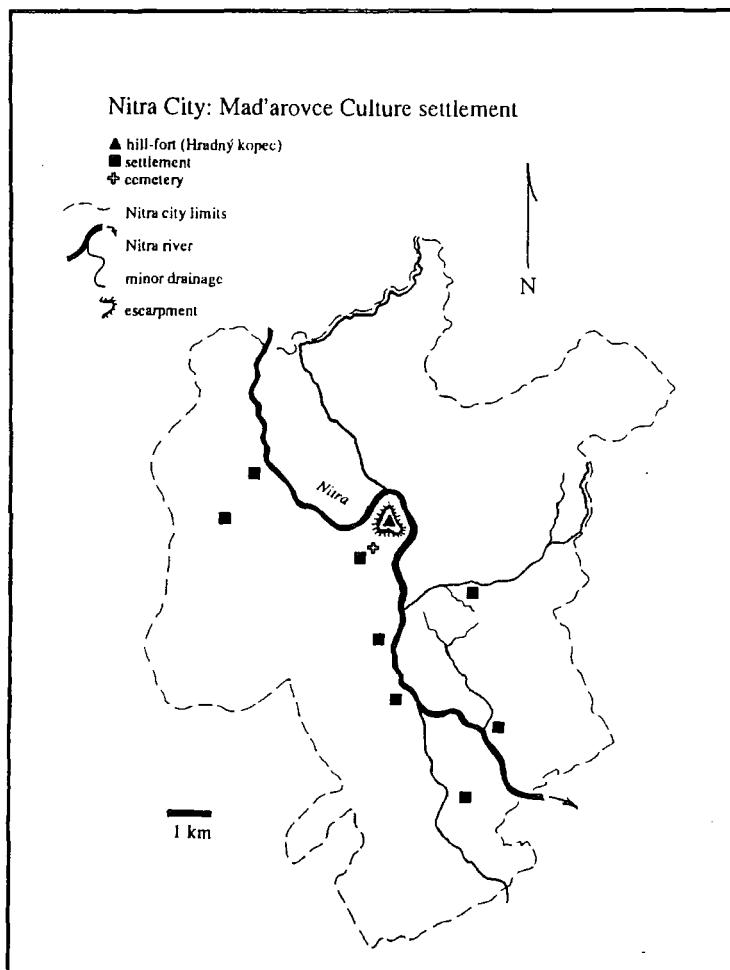


Fig. 100. Moravian Věteřov Culture storage pits with inhumation burials (after Stuchlík 1992). The adult male skeleton from Budkovice (above) lies in ritual position, while that of an older adult male from Pavlov (below) appears to have been cast into the pit with little ceremony. Note the circular fracture on the otherwise pristine skull from Pavlov. Similar skull fractures occurring on earlier Nitra Culture burials in West Slovakia have been determined to reflect deliberate para-mortal impacts. Such burials in old storage pits have been discovered in 30 settlements of 149 known sites of the Věteřov Culture in Moravia, or the majority of well-excavated sites of this Classical Early Bronze Age culture.



Fig. 101. Hajek, Middle Bronze Age tumulus cemetery in Southwest Bohemia (after Franc 1906). Of the 91 tumuli recorded by F.X. Franc in 1878, less than half have survived modern farming techniques of the 20th Century.

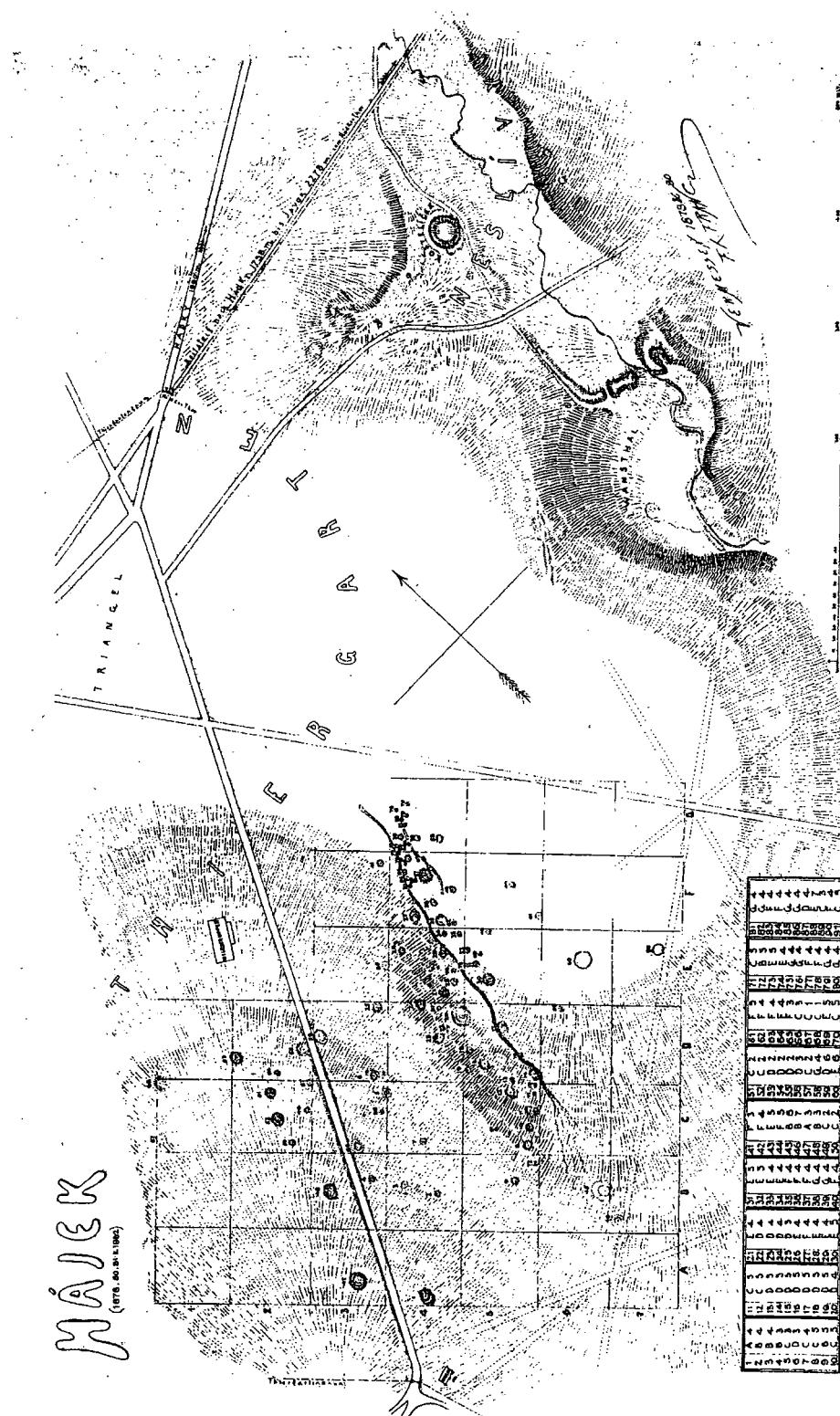


Fig. 102. Svareč, Middle Bronze Age tumulus cemetery in Southwest Bohemia (after Franc 1906). Ninety-two mounds have been recorded by F.X. Franc in 1881, each perhaps containing the equivalent of a family group.



Fig. 103. Svareč, finds from Tumuli 7, 57 and 32 (after Franc 1906). Indicated stone cists contained inhumation graves. Note the preservation of wood hafting and leather binding in contact with copper salts. Archaeological pollen samples from Mýtna Nová Ves and Vojkovice were preserved under identical conditions.

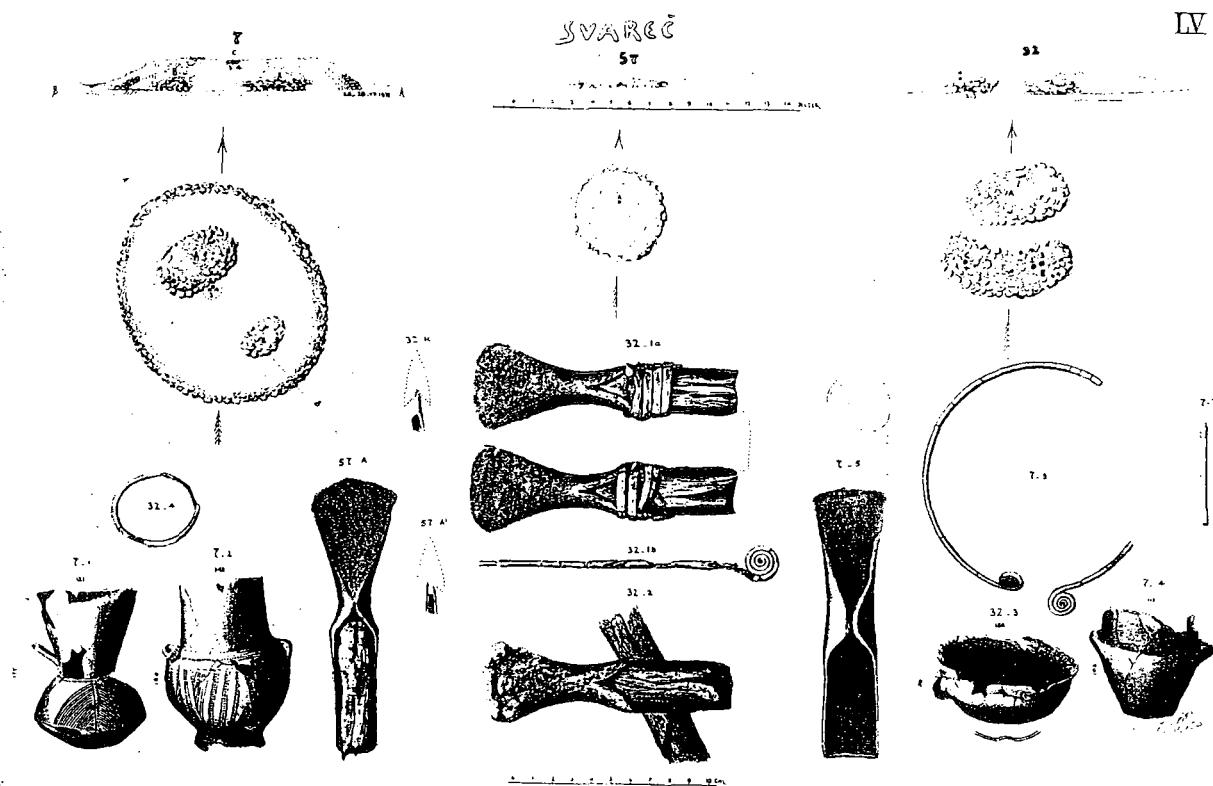


Fig. 104. Vochov, Middle Bronze Age hut preserved under Tumulus 1 (after Militký n.d.).

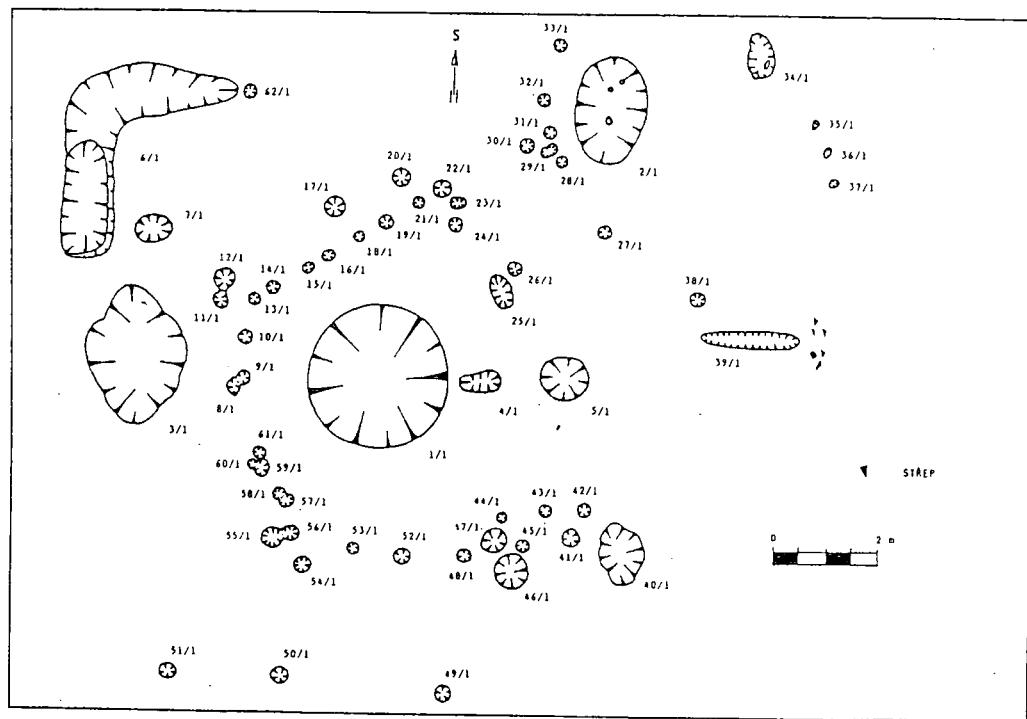


Fig. 105. Early Urnfield (B.A. D-Hallstatt A) settlement of Southwest Slovakia (after Pavuk et al. n.d.). Symbols indicate Middle Danubian (squares) and Lusatian (triangles) sites. Patterns indicate soils as follows: (1) czernozems, (2) czernozems on fluvial sediments, (3) para-brown earths, (4) Wiesenböden, (5) river inundation sediments, (6) illimerised soils, (7) brown earths on a non-löss substrate. Czernozems are the favoured soils in the lowlands during this period of very extensive settlement.

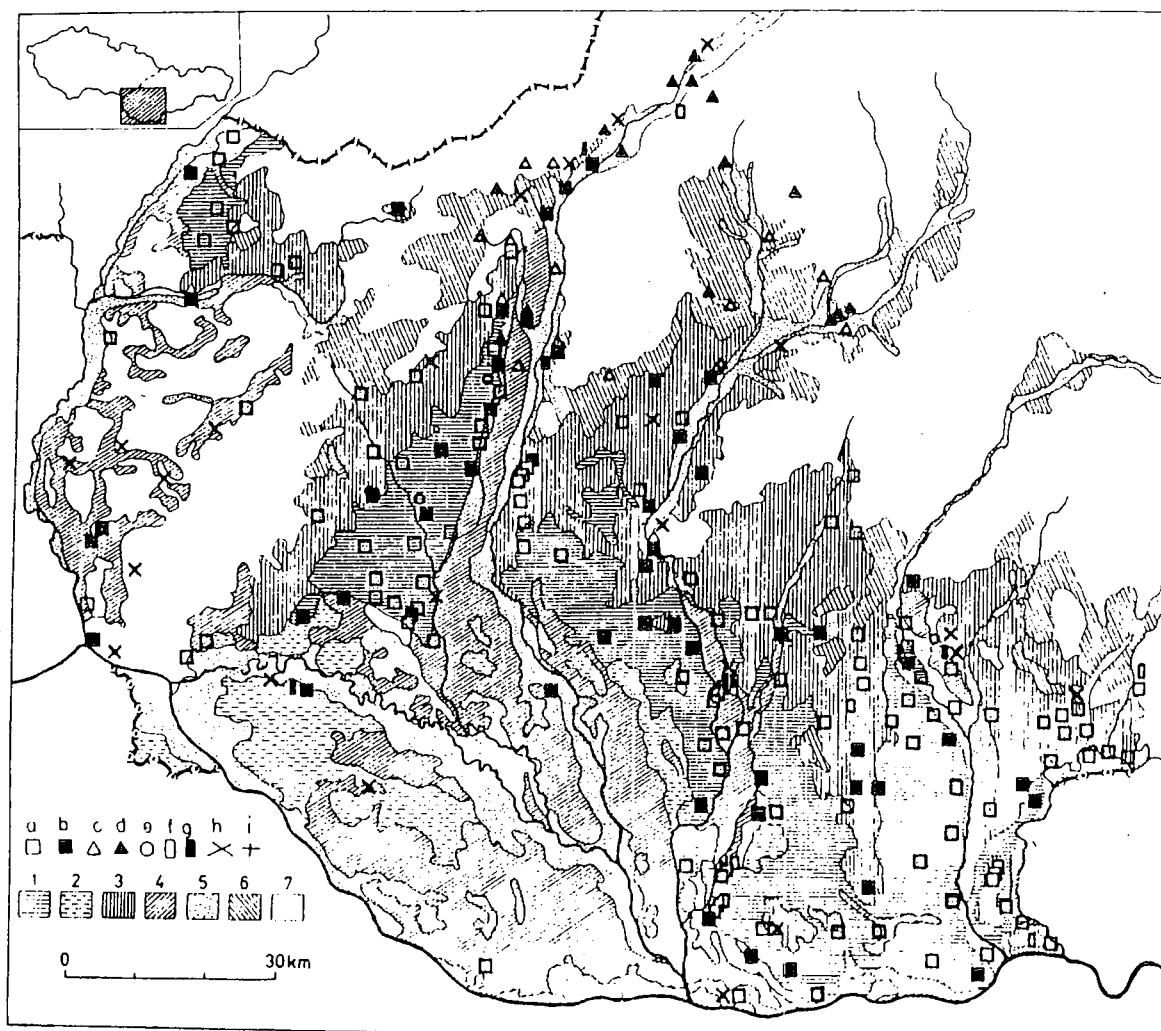


Fig. 106. Middle Urnfield (Hallstatt B1-2) settlement of Southwest Slovakia (after Pavuk et al. n.d.). Symbols indicate Middle Danubian (squares) and Lusatian (triangles) sites. Patterns indicate soils as follows: (1) czernozems, (2) czernozems on fluvial sediments, (3) para-brown earths, (4) Wiesenböden, (5) river inundation sediments, (6) illimerised soils, (7) brown earths on a non-löss substrate. Note the general contraction of settlement from czernozems to more moisture-retaining soils (esp. para-brown earths), suggesting that periodic moisture stress has induced this condition. Lusatian settlement contracts to a lesser degree than the Middle Danubian (of the Čaka-Velatice Culture), possibly because of the use of drought-resistant spelt wheat by farmers of the Lusatian culture. This dry interval is contemporary with the possible Hallstatt B1-2 wet interval in Bohemia, suggesting that changes in the general atmospheric circulation are occurring during this period (specifically, a depression of continental anti-cyclones which bring moisture to the most critically dry [late summer] part of the growing season in the Carpathian Basin, cf. Lamb et al. 1966).

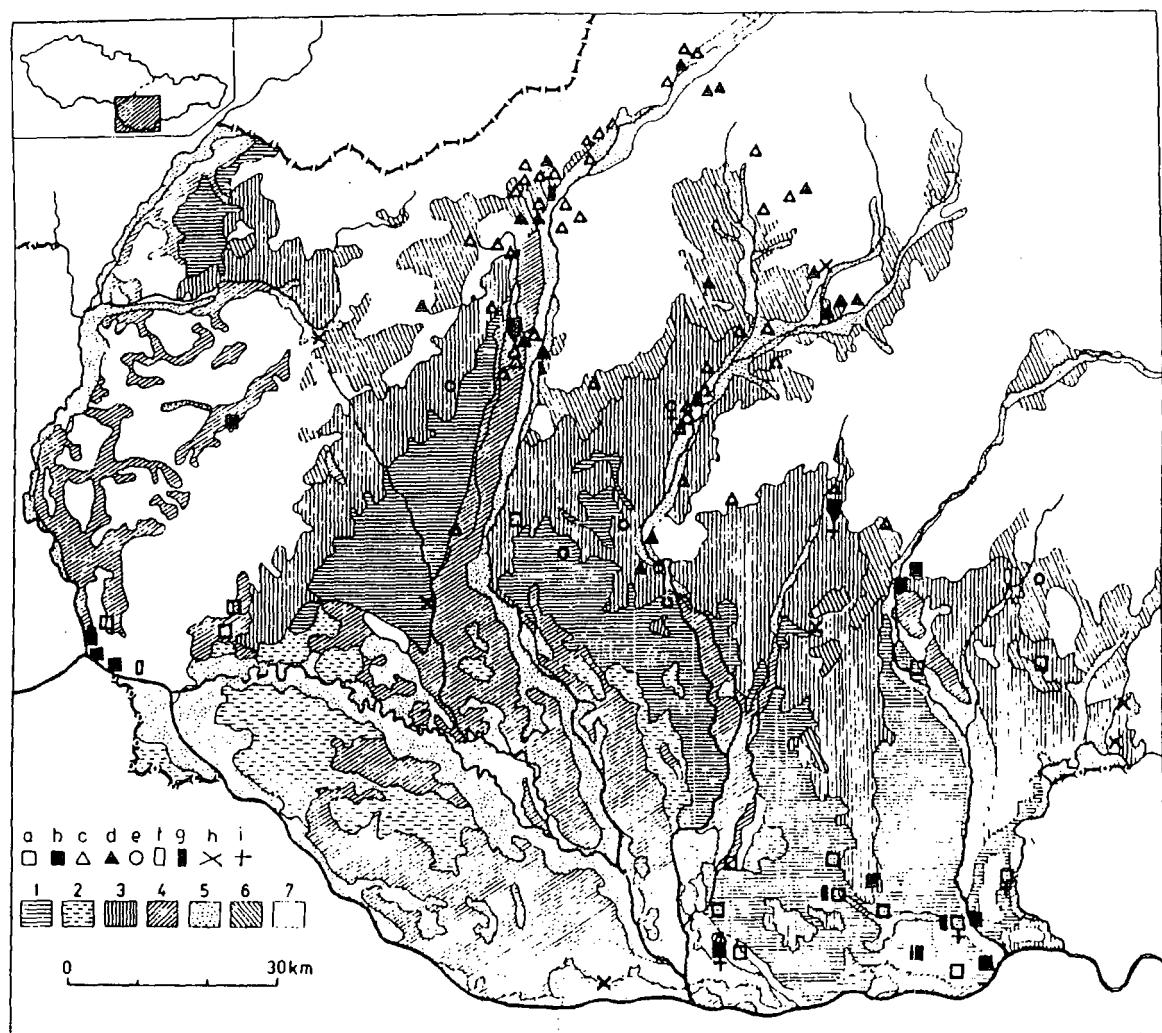


Fig. 107. Late Urnfield (Hallstatt B3-C1) settlement of Southwest Slovakia (after Pavuk et al. n.d.). Symbols indicate Middle Danubian (squares) and Lusatian (triangles) sites. Patterns indicate soils as follows: (1) czernozems, (2) czernozems on fluvial sediments, (3) para-brown earths, (4) Wiesenböden, (5) river inundation sediments, (6) illimerised soils, (7) brown earths on a non-löss substrate. A partial return to czernozems occurs, particularly by farmers of the Lusatian Culture.

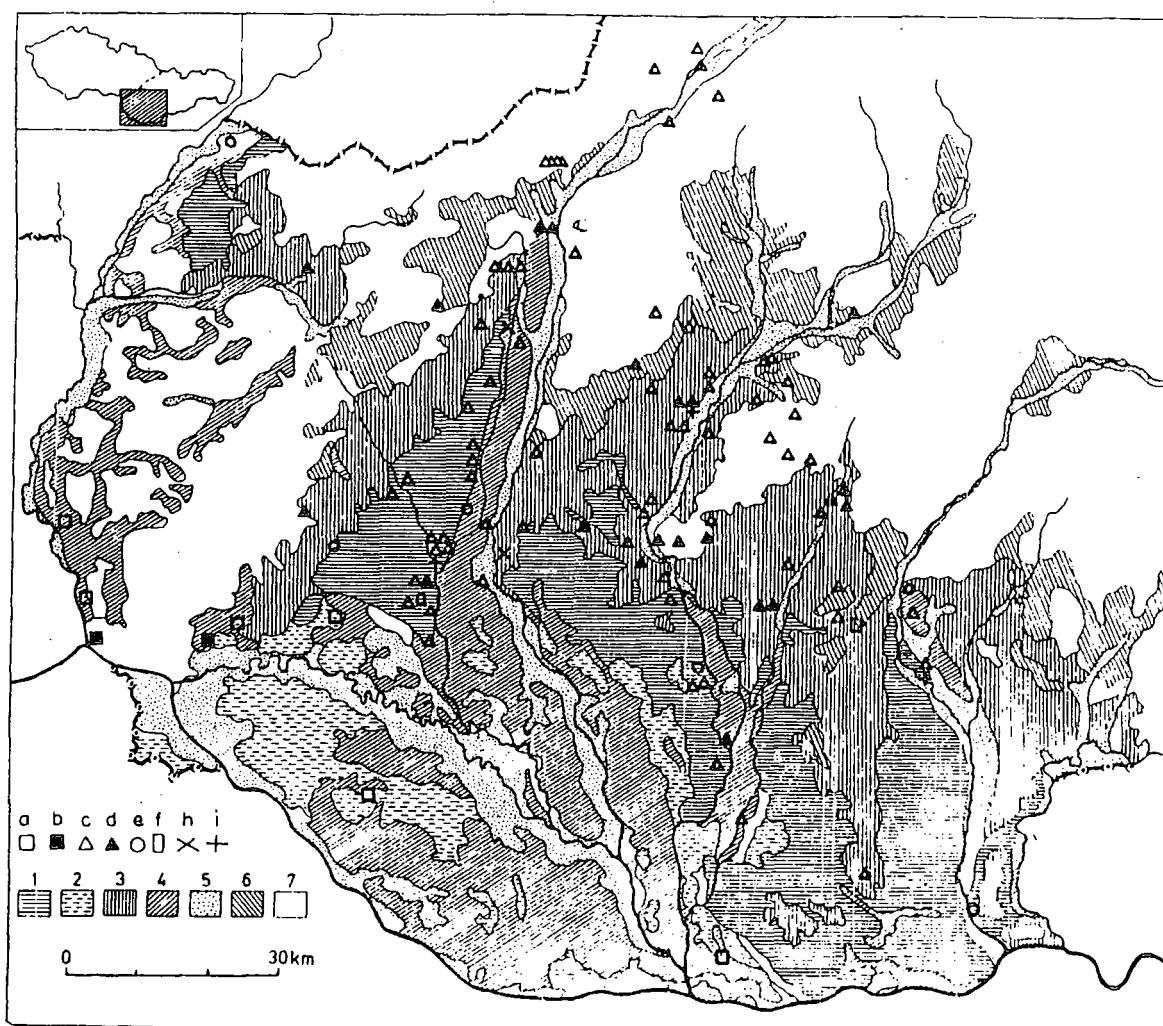


Fig. 108. Lovčičky, house plans from Velatice Culture village (after Říhovský 1966a).

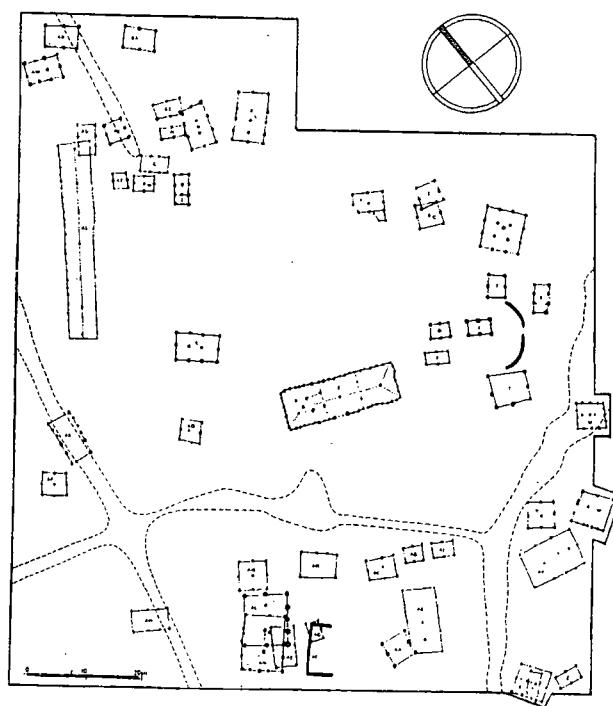


Fig. 109. Lovčičky, reconstruction of central large house and farmstead complex (after Poborský 1993). Storage pits are indicated by shading.

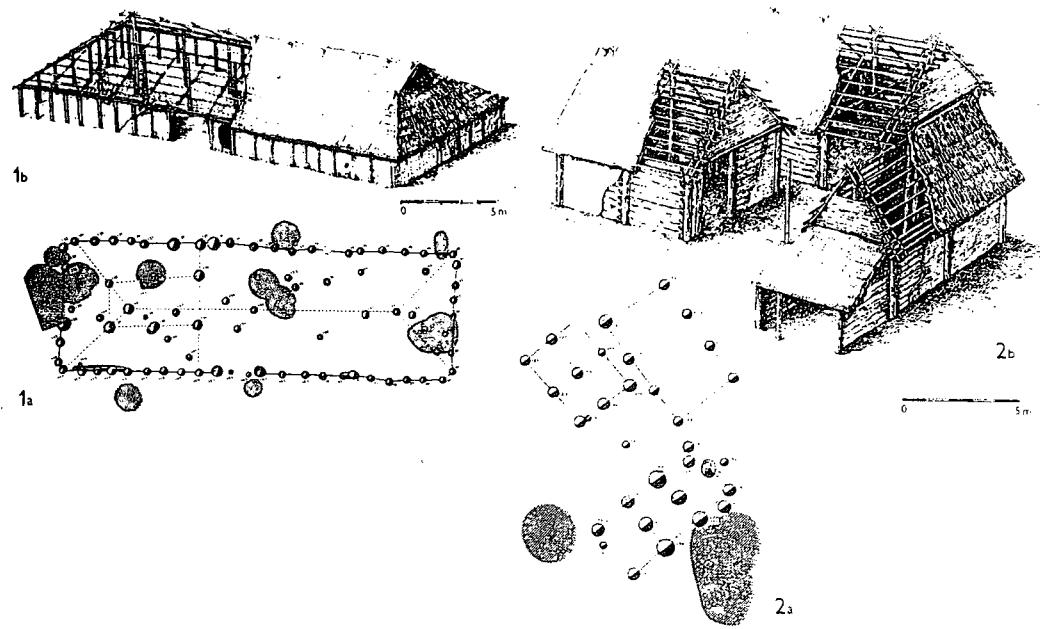


Fig. 110. Blučina, regional Velatice Culture settlement (after Salaš 1985). Symbols indicate the site of Blučina (1), settlements (2), cemeteries (3) and isolated urn burials (4).

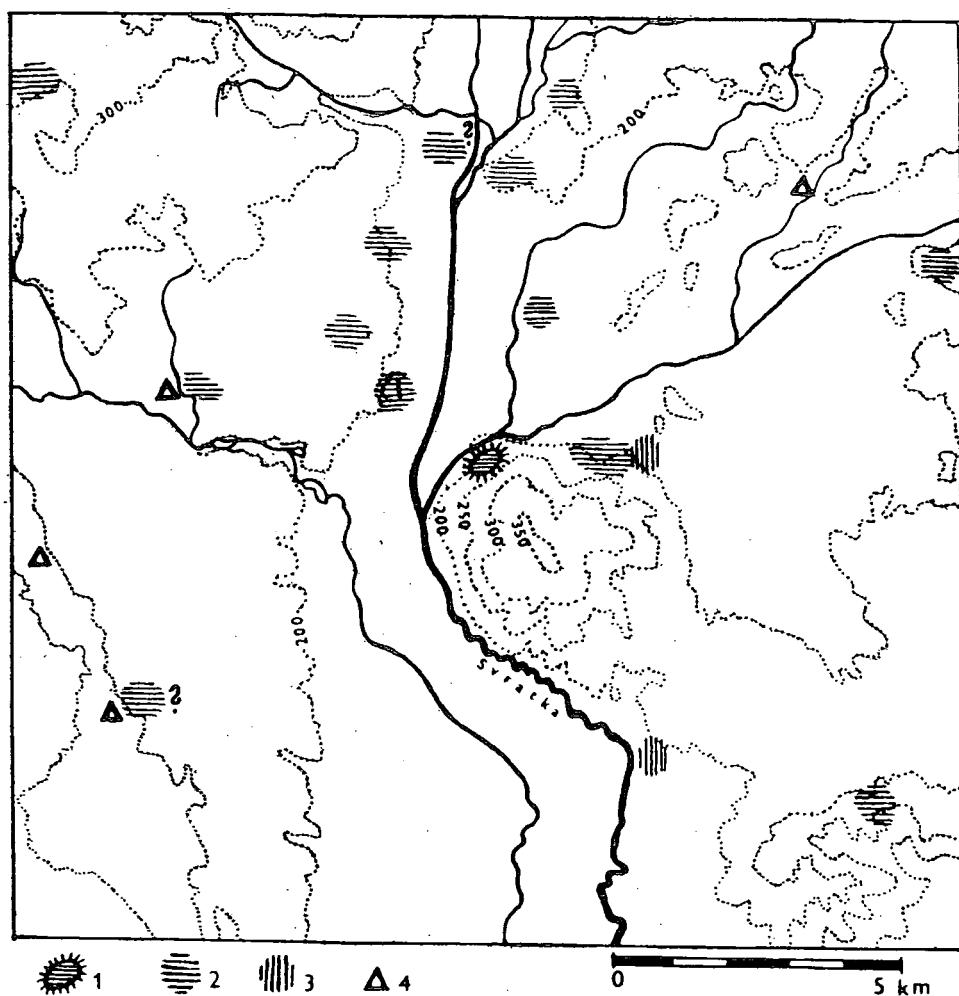


Fig. 111. Velim, mass burial in Feature 30 of the terminal Tumulus Culture or Urnfield establishment phase in East-Central Bohemia (after Hrala et al. 1991). Further mortuary features of this type have been recovered from recent excavations of this Bronze Age site by Hrala and Harding.



Fig. 112. Liptice, Knovíz Culture farmstead (after Beneš 1987). Three huts (and part of a fourth on the southern edge of the excavation block) occur alongside thirteen substantial sub-surface features.

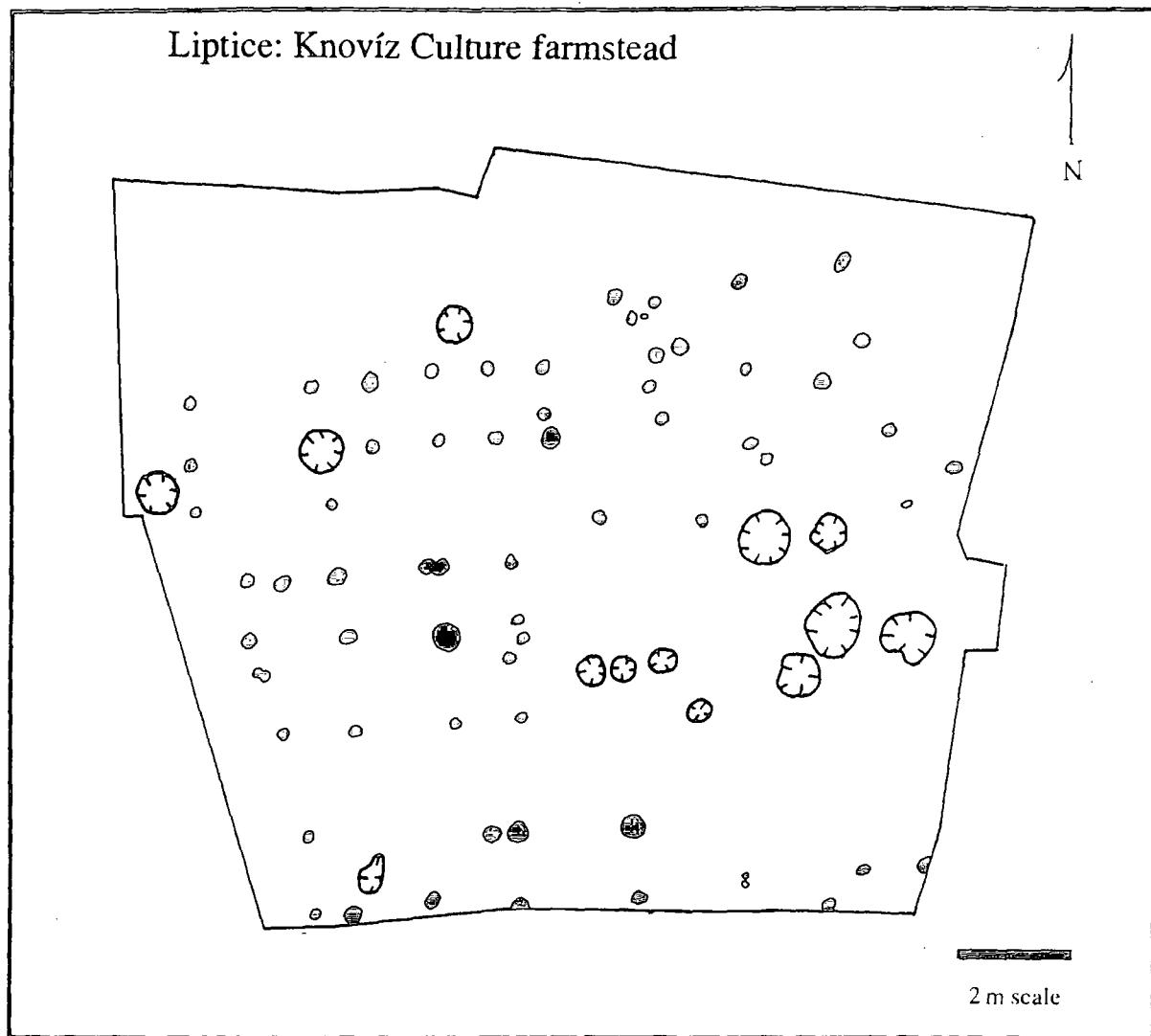


Fig. 113. General distribution of Terminal Bronze and Early Iron Age hill-forts of the Lusatian Culture in Moravia (after Nekvasil 1982). Symbols indicate certain hill-forts (filled rectangles), probable hill-forts (open rectangles) and possible hill-forts (crosses) of the Lusatian Culture. Dense patterns indicate main Lusatian settlement zones from the Boskovice area (in West Moravia) to the West Slovakian uplands (in the east). The open hatched pattern denotes a mixed Lusatian-Danubian cultural zone in South Moravia. Note the placement of hill-forts on the perimetre of the main Lusatian settlement zone, suggestive of their primary role as (extra-cultural) defensive centres. A poverty of true hill-forts in the West Slovak zone might reflect the natural defensibility of this settlement area in the Tatras. Open circles denote Late Bronze Age Danubian hill-forts at regional centres of general Danubian settlement zone in South and Southwest Moravia, suggestive of their potential role as political nodes.

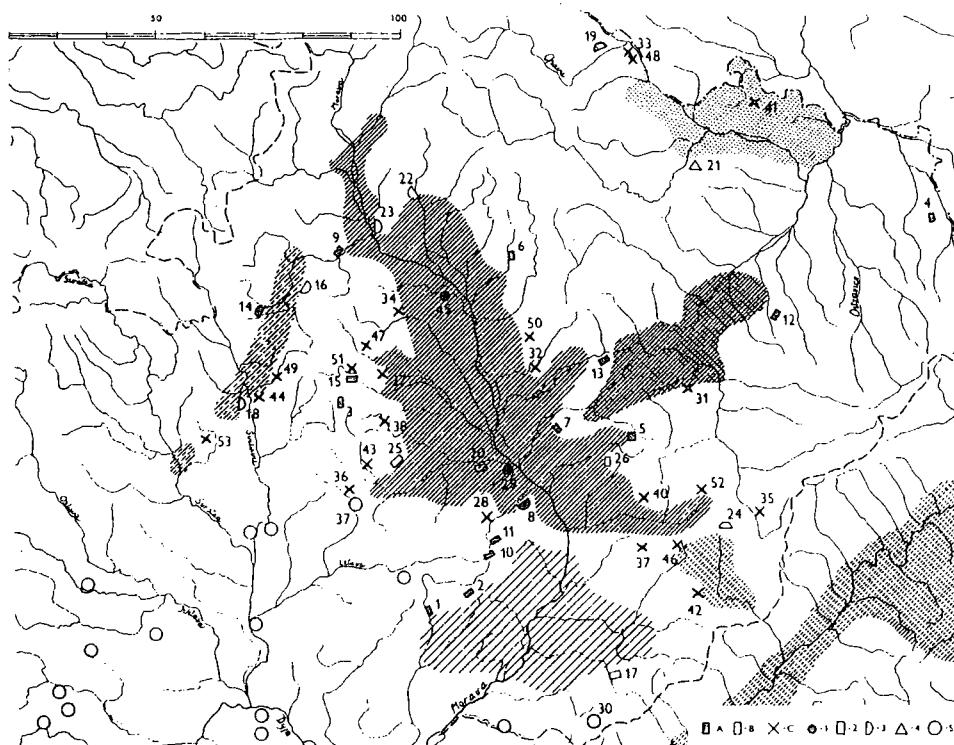


Fig. 114. Distribution of Late Bronze Age and Late Hallstatt hill-forts in the Thuringian Unstrut Valley (after Wagner 1992). Symbols indicate hill-fort occupation during (a) Reinecke Bronze Age D-Hallstatt A1, (b) Hallstatt A2-B1, (c) Hallstatt B2-C, (d) Hallstatt D-La Tène A, (e) probable dating to above period and (f) during the Late Bronze Age and Late Hallstatt period generally.

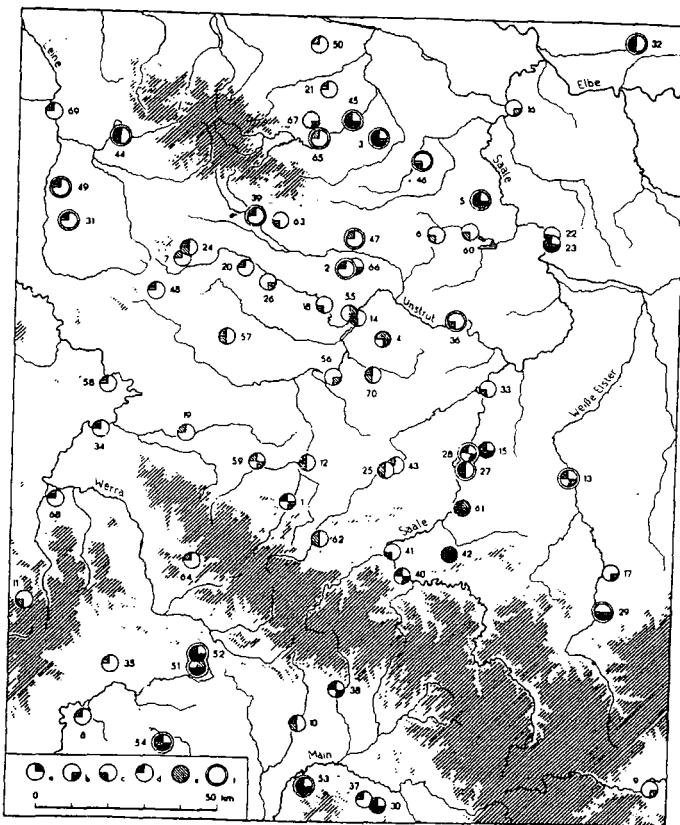


Fig. 115. Brno-Obřany, site plan of the Podolí Culture hill-fort (after Podborský 1993).

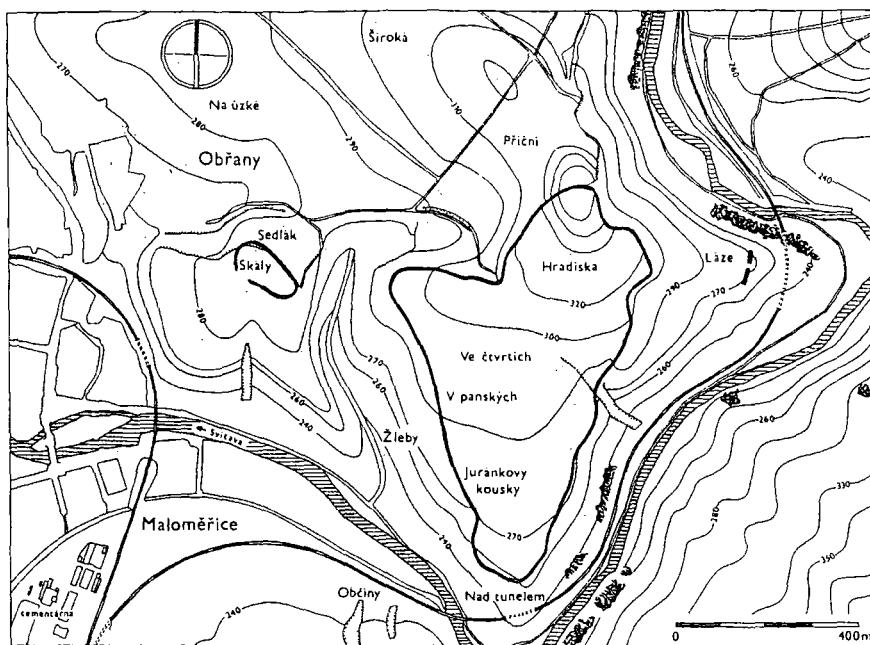


Fig. 116. Brno-Obřany, Grave 169 of the Late Podolí Culture (after Poborský 1993). Sword, axe and lance are made of iron. Ringlets (artifact no. 2) are made of gold.

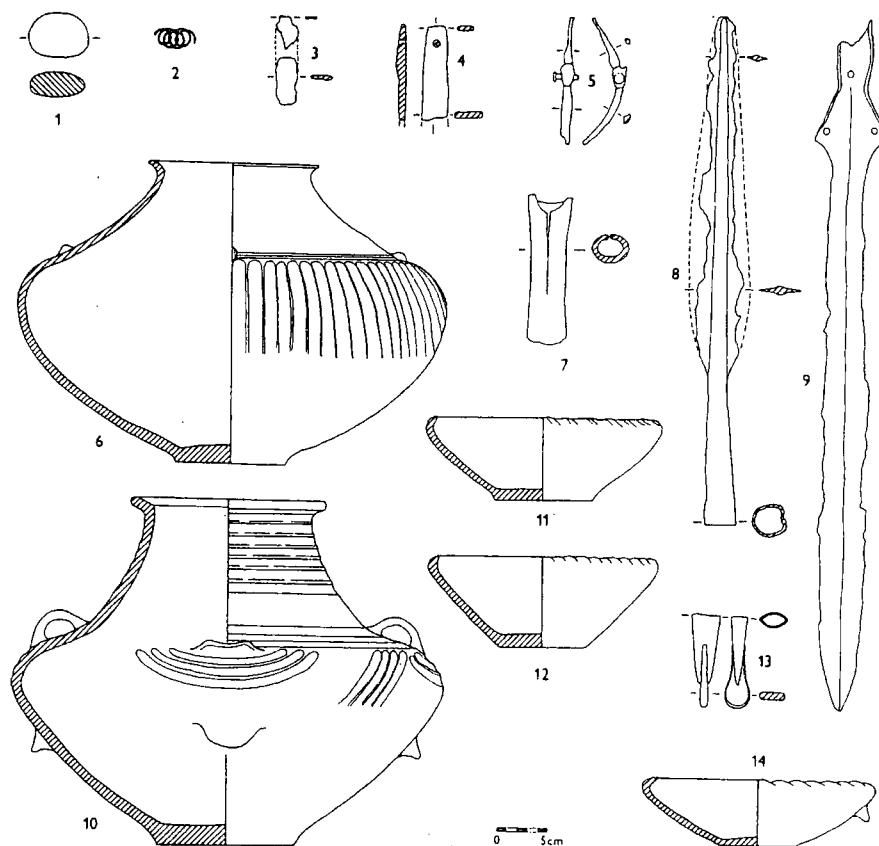


Fig. 117. Iron Age sites in Bohemia.

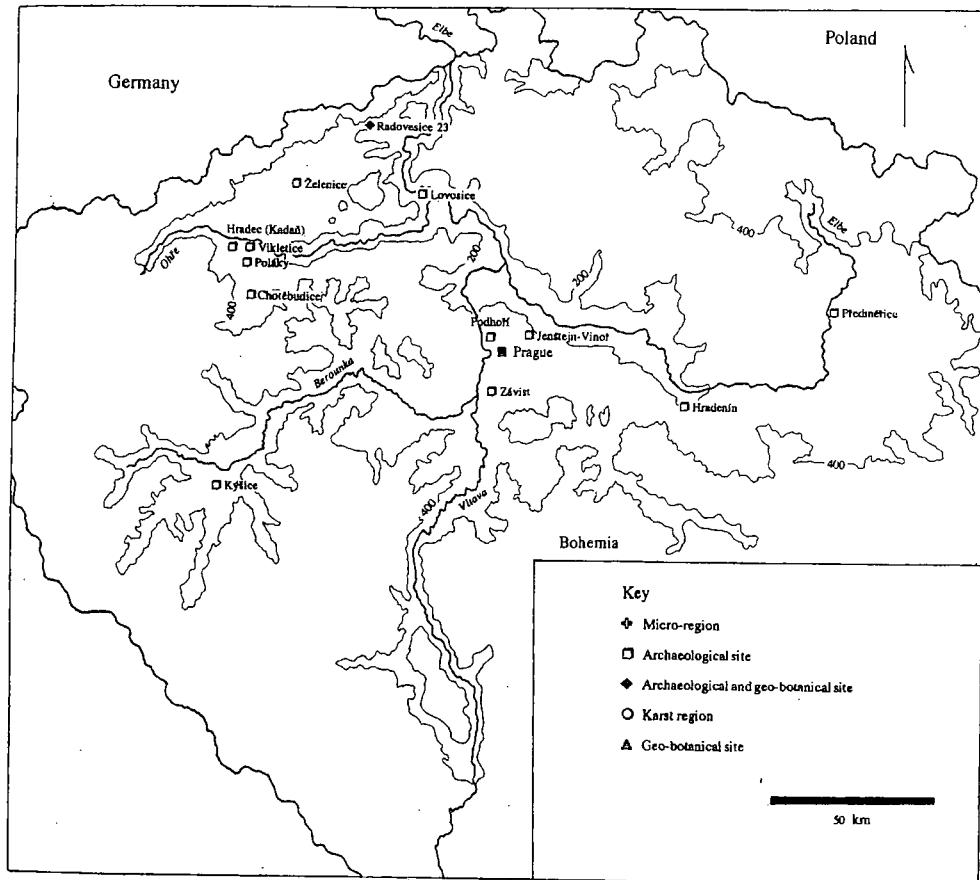


Fig. 118. Iron Age sites in Moravia and Slovakia

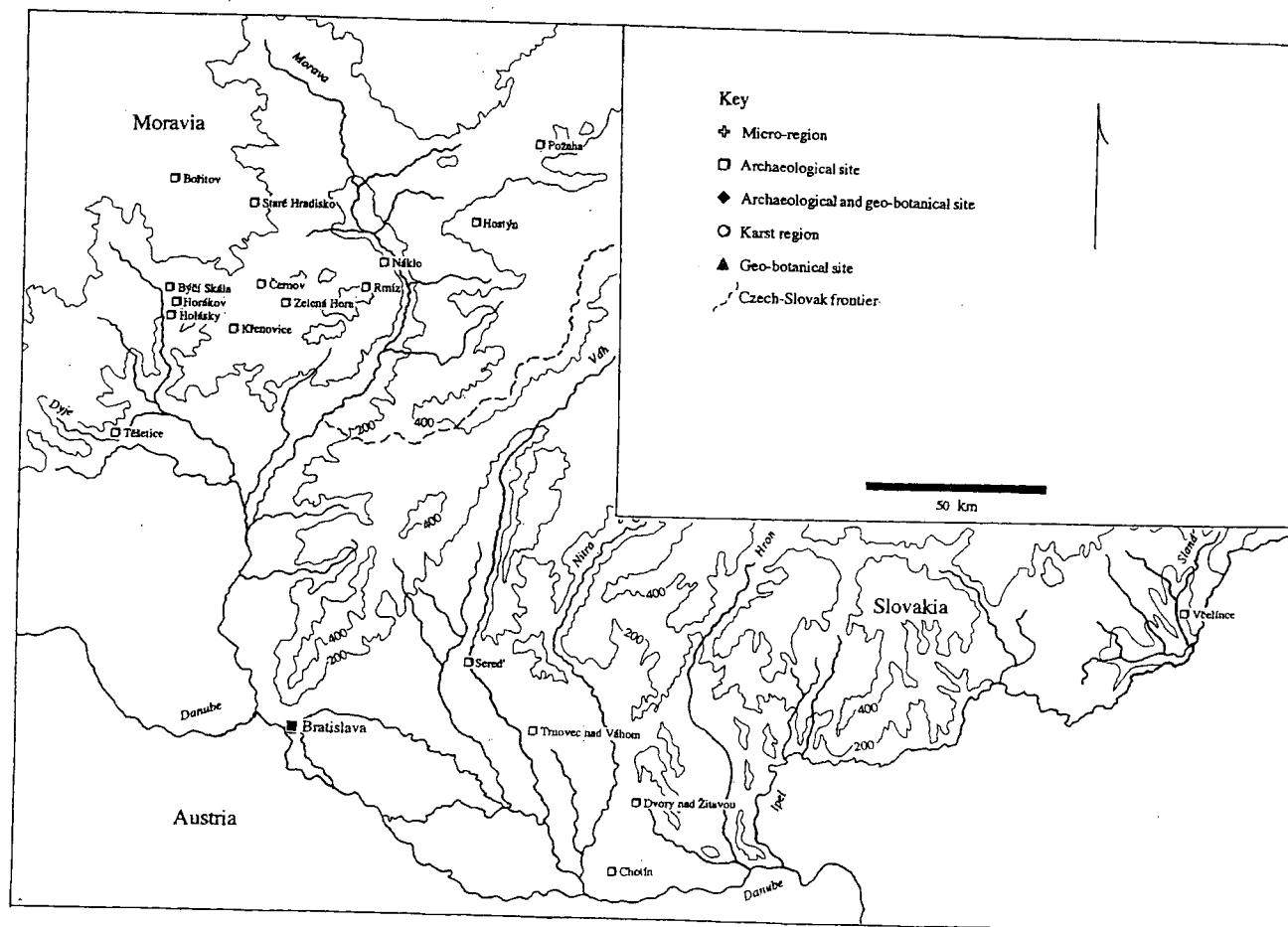


Fig. 119. Early Iron Age (Hallstatt C2-D1) settlement of Southwest Slovakia (after Pavuk et al. n.d.). Symbols indicate Middle Danubian (squares) and Lusatian (triangles) sites. Patterns indicate soils as follows: (1) czernozems, (2) czernozems on fluvial sediments, (3) para-brown earths, (4) Wiesenböden, (5) river inundation sediments, (6) illimerised soils, (7) brown earths on a non-löss substrate. Note the relative intensity of Middle Danubian settlement (spelt wheat now appears as a regular field crop on Late Hallstatt sites).

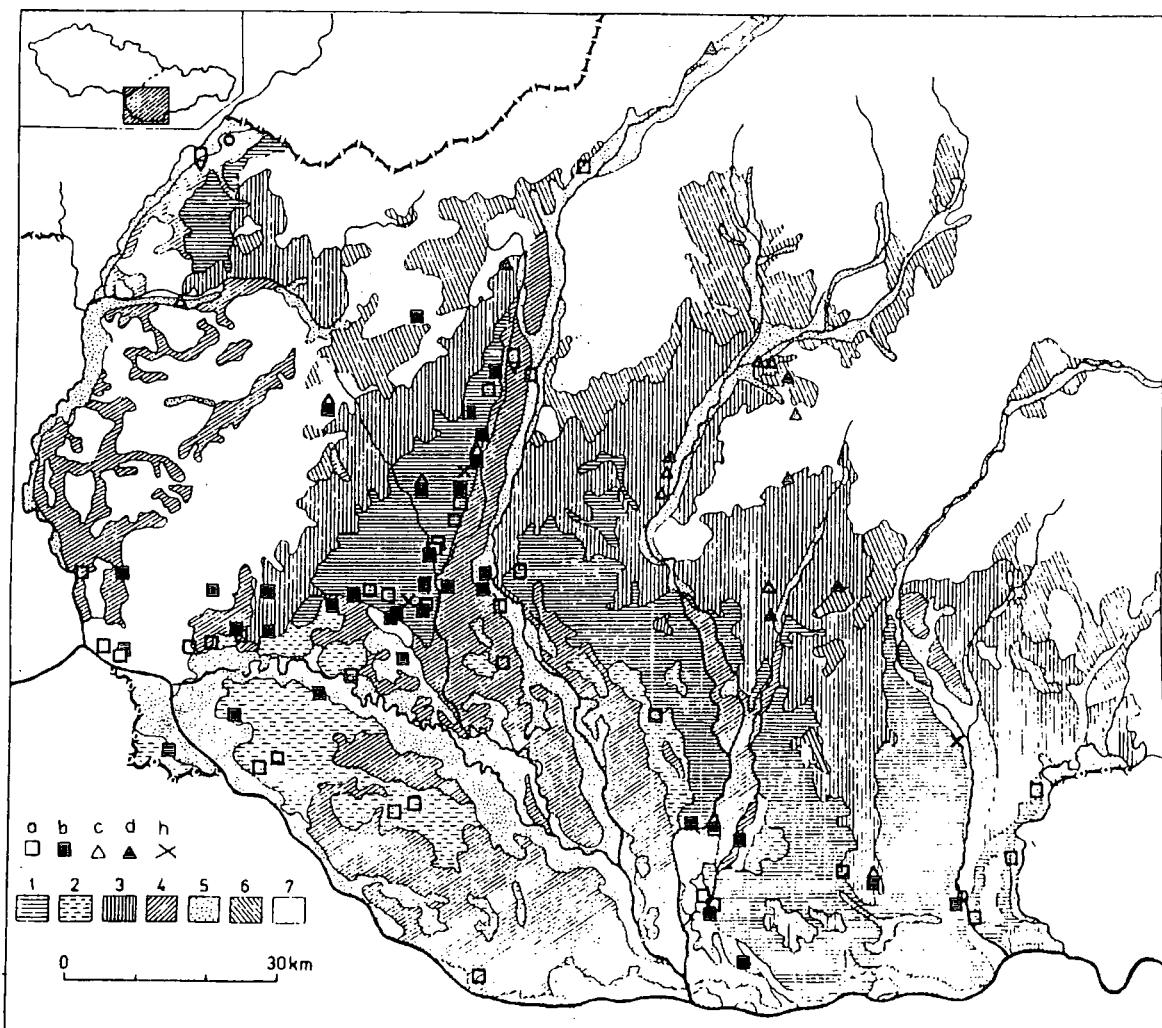


Fig. 120. Vekerzug and La Tène (Hallstatt D2-3 and La Tène A) settlement of Southwest Slovakia (after Pavuk et al. n.d.). Symbols indicate Vekerzug (rectangles) and La Tène (circles) sites. Patterns indicate soils as follows: (1) czernozems, (2) czernozems on fluvial sediments, (3) para-brown earths, (4) Wiesenböden, (5) river inundation sediments, (6) illimerised soils, (7) brown earths on a non-löss substrate.

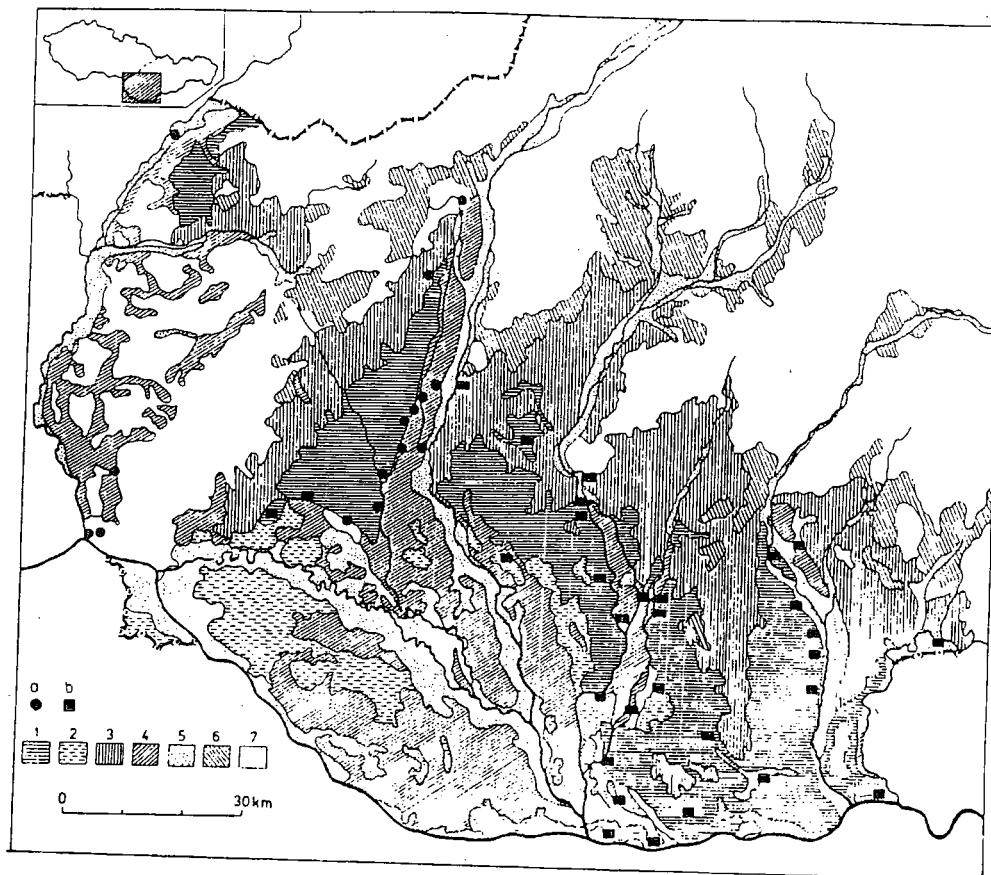


Fig. 121. Vikletice, Feature 61/62 of the Late Bylany Culture in Northwest Bohemia (after Koutecký 1988a).

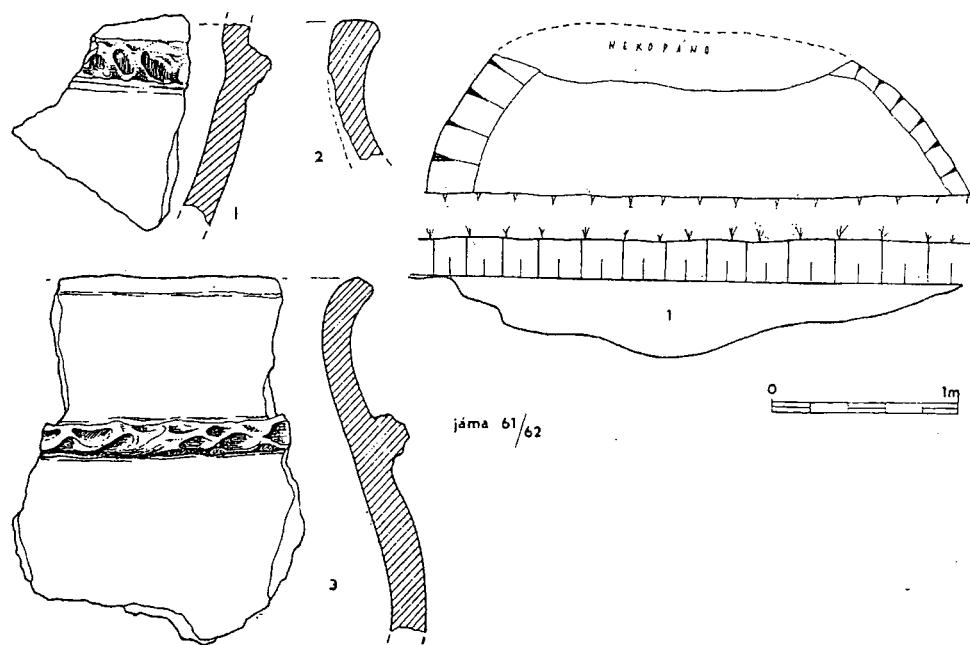


Fig. 122. Chotěbudice, settlement pottery of Hallstatt C2 date from Feature 7 (after Koutecký 1993). Note sherd portraying horse riders from lot no. 146/73-4 (A). This pit was dug to a depth of 2.1 m (cf. Vinoř Feature 11).

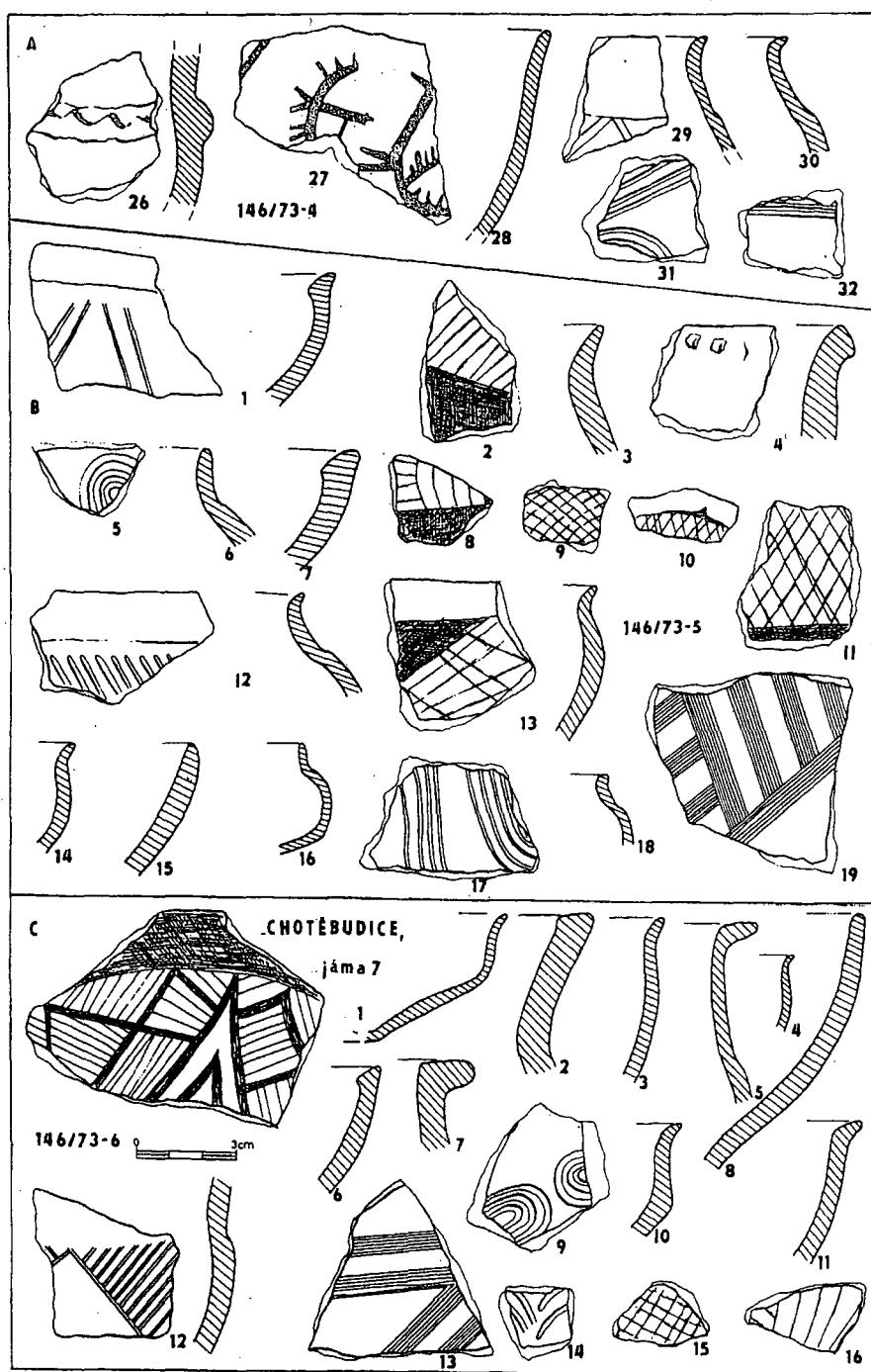


Fig. 123. Chotín, Vekerzug cemetery Area I-A (after Dušek 1966). This concentration is separated from Area I-B by an extensive sand pit which produced disturbed finds. Most likely, the entire cemetery contains 1,000+ graves established during a (ca.) one century period of use during Hallstatt D. Note the presence of horse burials.

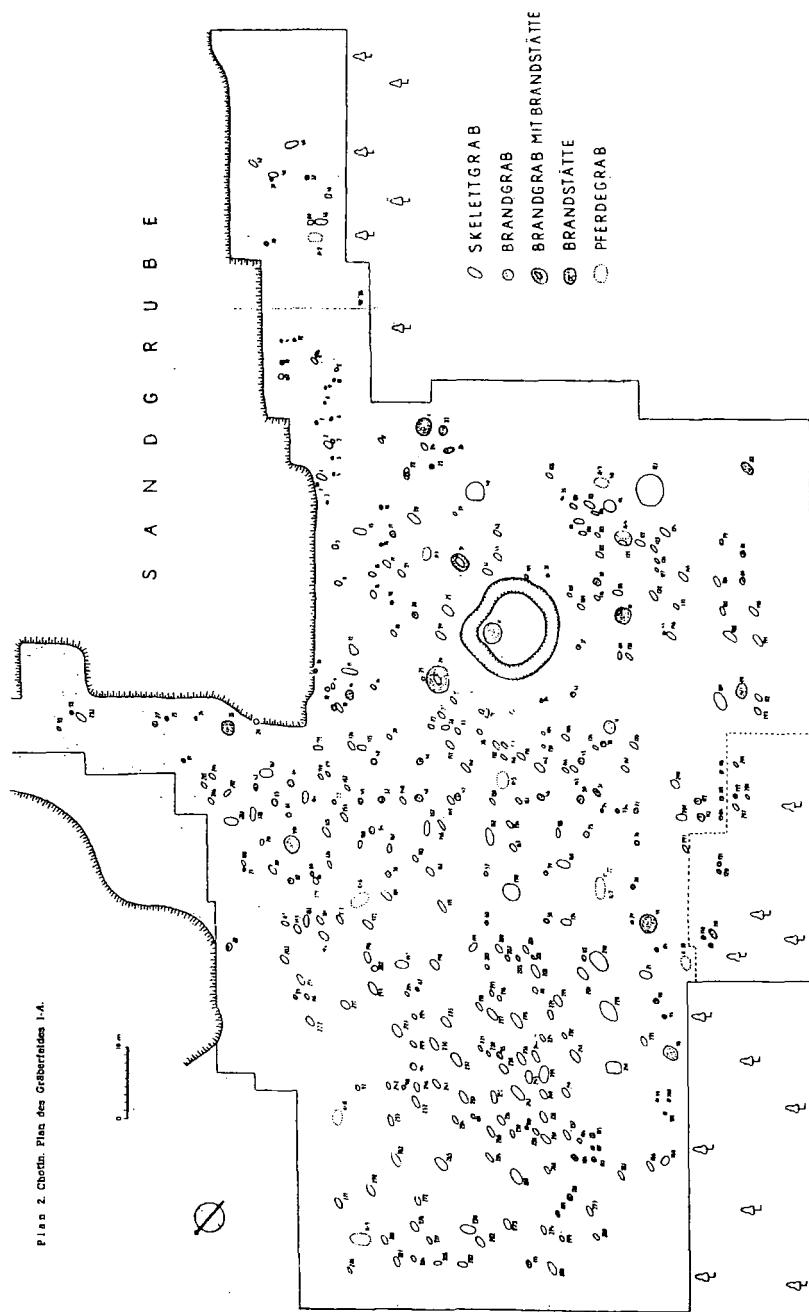


Fig. 124. Včelínce, east profile burial mound of Vekerzug Culture in East Slovakia (after Furmanek and Marková 1994). Scale indicates metres.

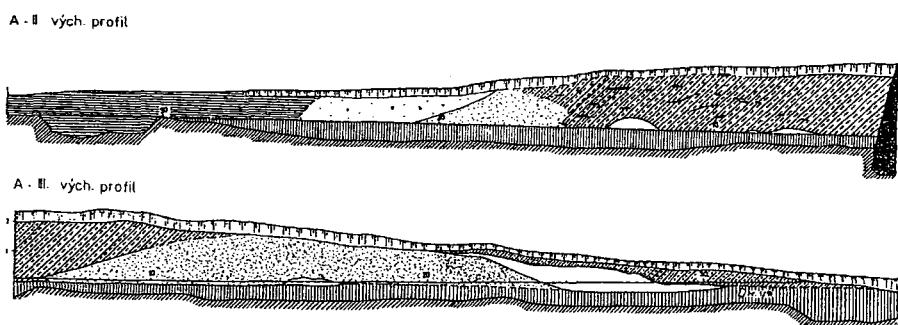


Fig. 125. Brno-Holásky, chamber burial of Horákov Culture (after Poborský 1993). Note the iron weaponry and horse harness elements. The placement of three storage vessels in northwestern corner of the wooden chamber has analogs in the situation of storage vessels in Bylany Culture graves, on which wagon yokes are sometimes placed. An inference might be made that the triple storage vessels for grain reflect a votive to the original role of Epona as an agricultural goddess (cf. Fig. 125).

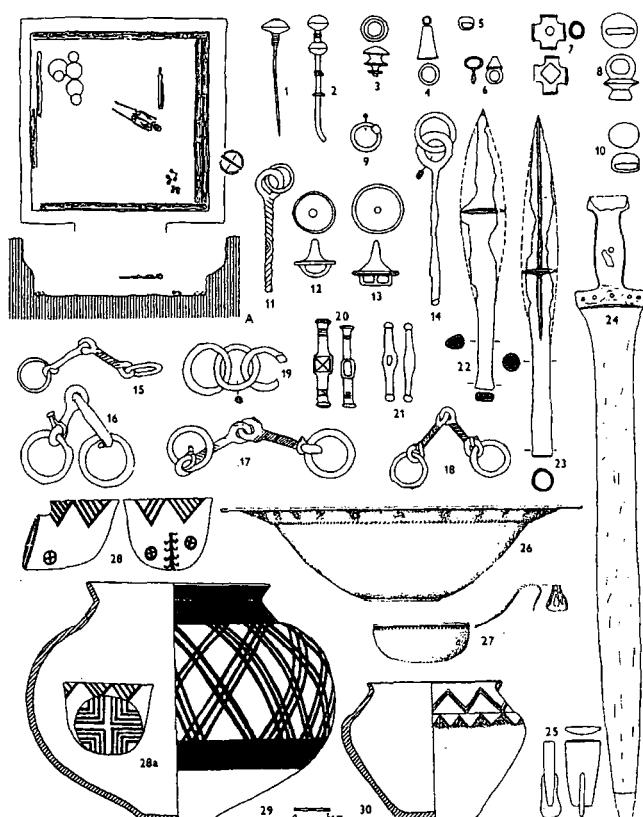


Fig. 126. Kyšice-Dýšina, Hallstatt C tumulus burial in Southwest Bohemia (after Franc 1906). Note the solar water fowl symbolism on bronze dish with horse harness fittings (like contemporary graves of Horákov Culture). A general symbolic associative complex between equids, water and death may be discerned in the funerary cult during the Hallstatt C-D period in Central Europe (cf. Roman commentary on the role of Celtic Goddess Epona [drawn by three horses] as the bearer of the dead across a body of water).

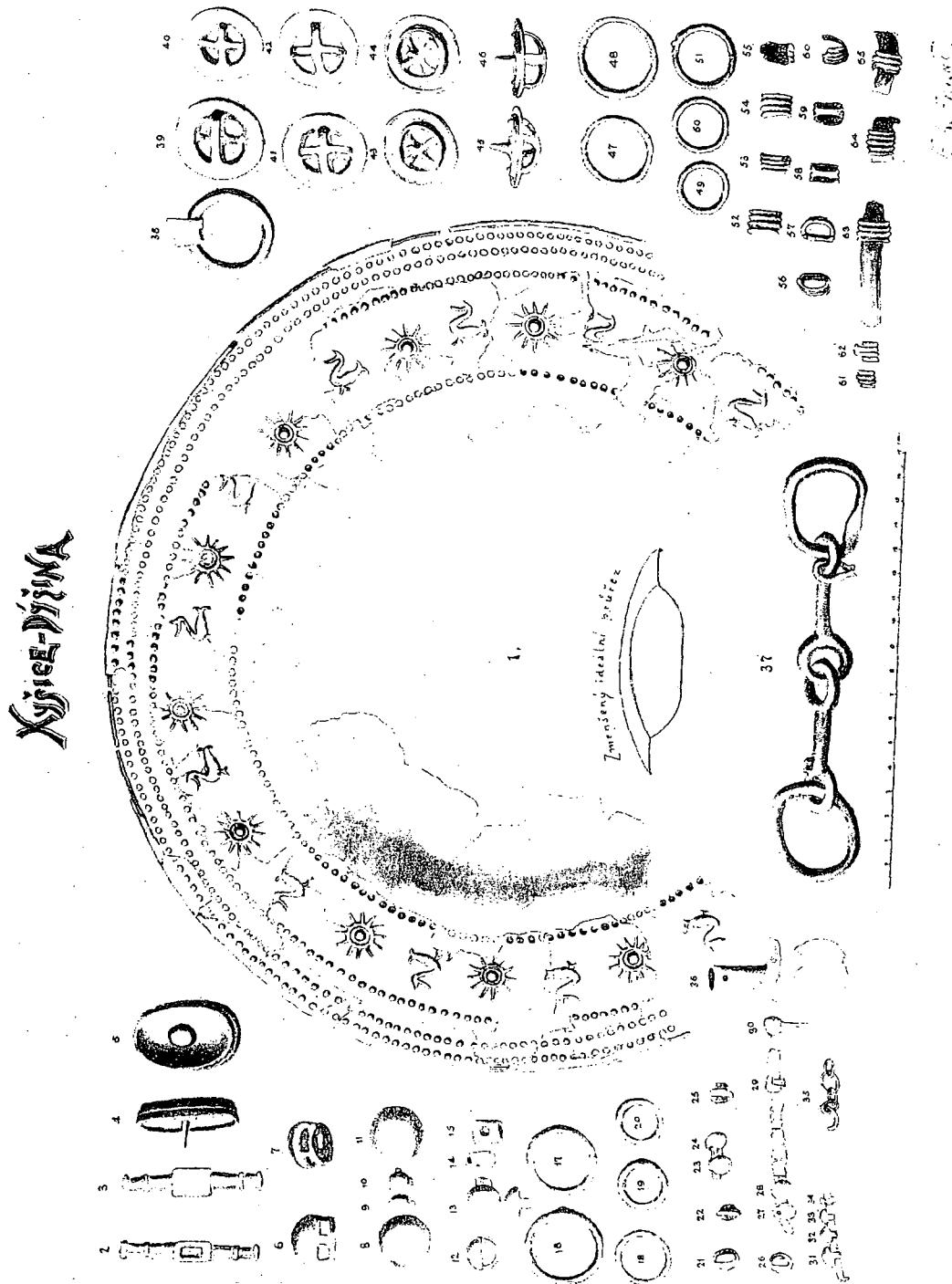


Fig. 127. Krašovice, plan of Hallstatt D compound (after Waldhauser 1987). Note that over-patterning by successive sub-phases of Late Hallstatt occupation has rendered domiciles at this site by Příšbam unreconstructable (Soudská's attempts are unconvincing). Note the pervasive presence of post structures on this cleaned surface (sub-surface features are hatched). Unpublished house patterns from Kuřim in South Moravia are much clearer.

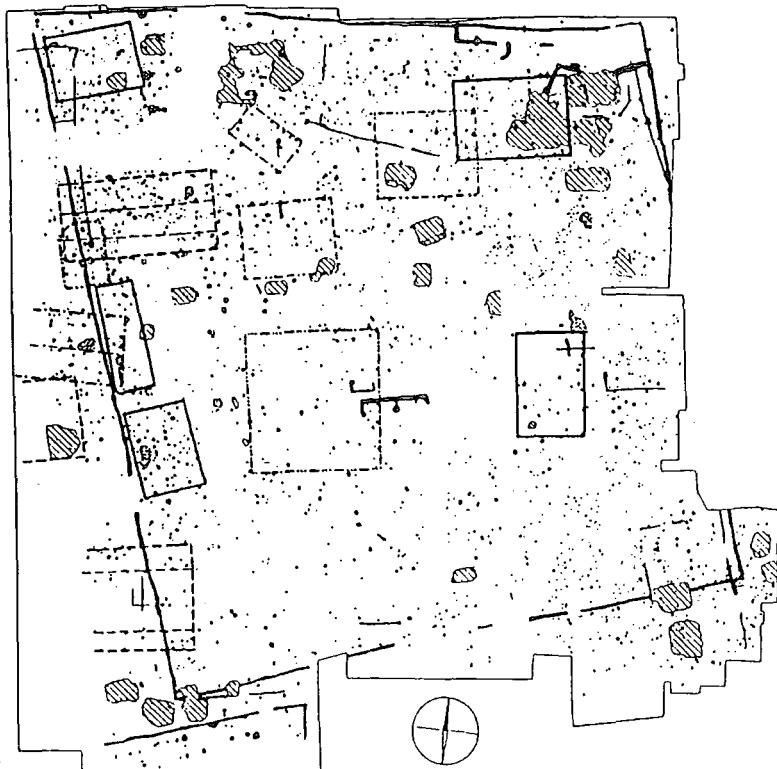


Fig. 128. Jenštejn, sunken features (2, 4, 21 and 63) designated as domiciles by the excavator (after Dresserlová 1995a). Note that only a limited surface of the Jenštejn excavation was thoroughly cleaned. This limited section (Area D) produced almost all recognised post-moulds.

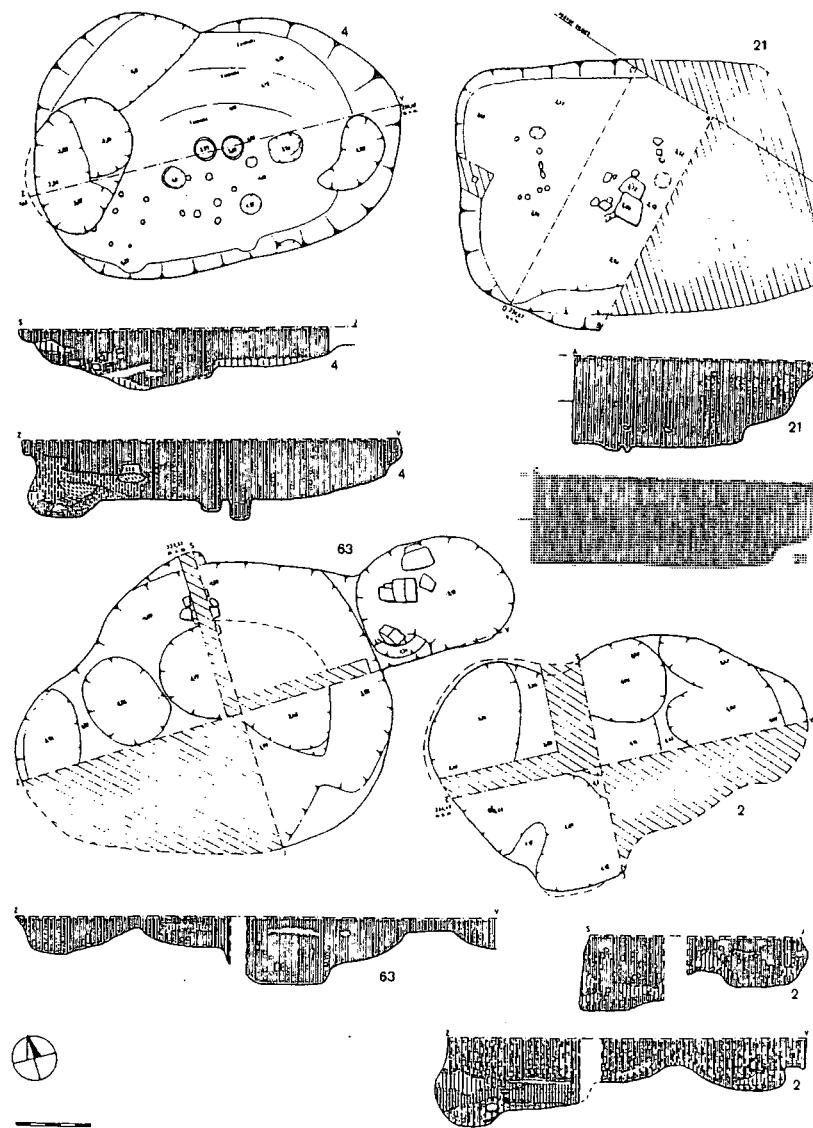


Fig. 129. Kadaň (Hradec), Late Hallstatt settlement (adapted from Koutecký 1988a). A cluster of four sites in the environs of Kadaň (northwestern study area) is considered to be a single village for population calculations.

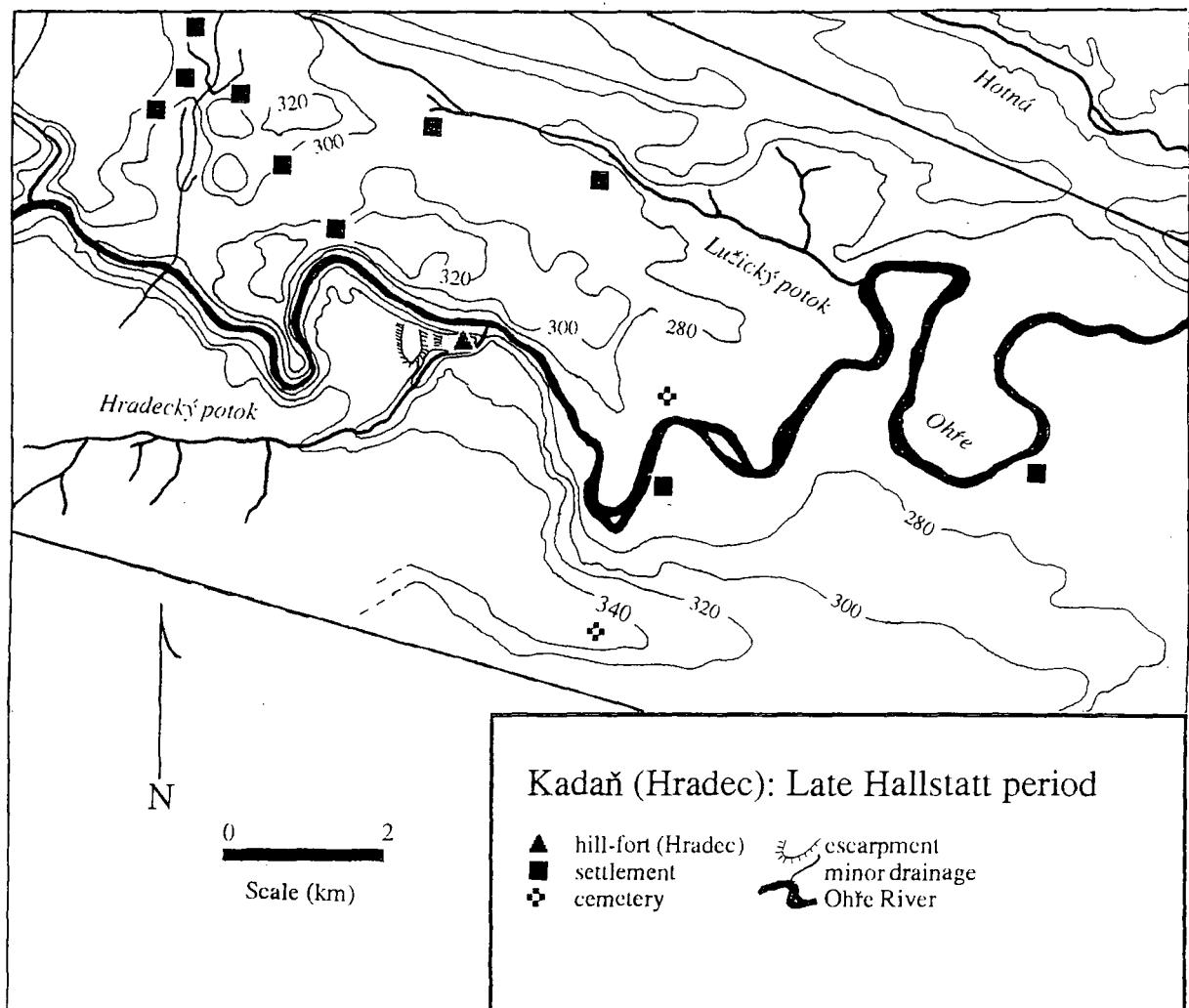


Fig. 130. Late Hallstatt and La Tène settlement in the southern part of the Middle Bílina Valley (after Waldhauser 1984a).

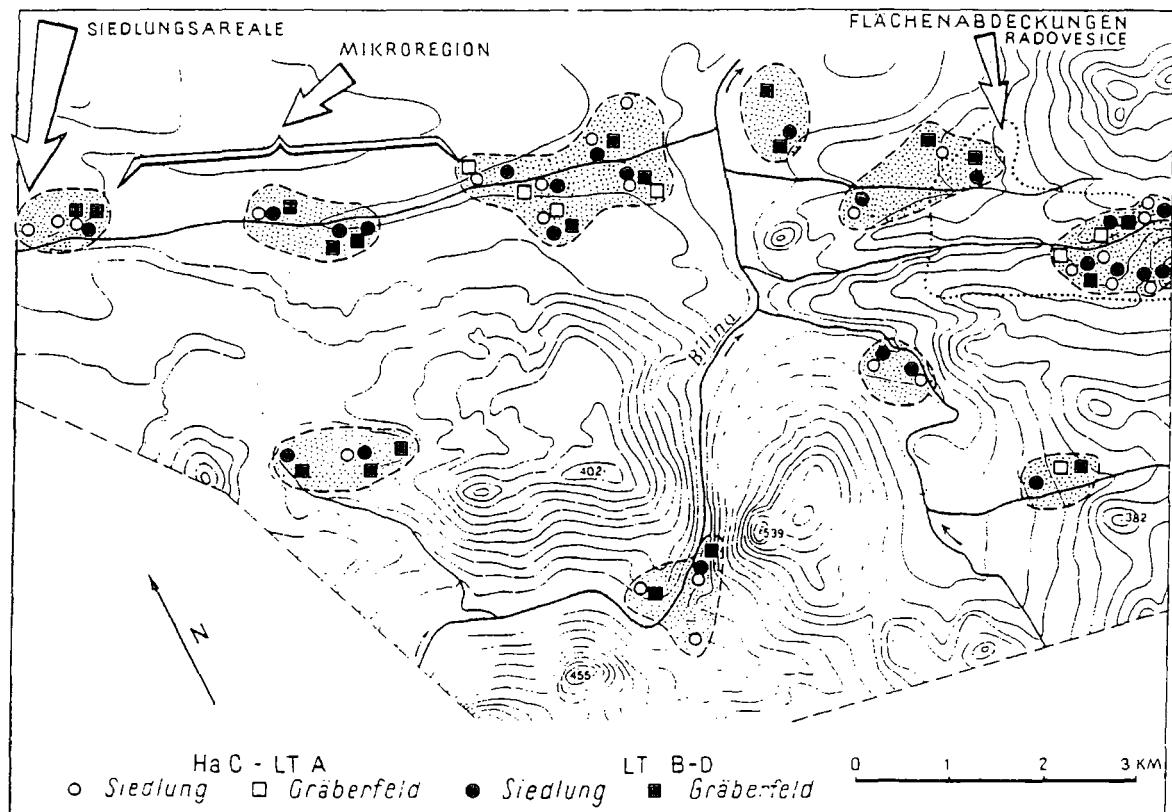


Fig. 131. Middle La Tène graves from Moravia (after Poborský 1993). Sites of Lovčičky (1), Brno-Chrlice (2, 4) and Blučina (3, 5-7) are represented by female (1, 2, 4) and male (3, 5-7) inhumations. Warrior attributes such as swords, spears and shields are common in male graves. Female graves often contain multiple arm or leg rings. Neck torcs are more rare. The presence of unequipped female inhumations as secondary internments in male graves has also been noted by Čižmář (1972).

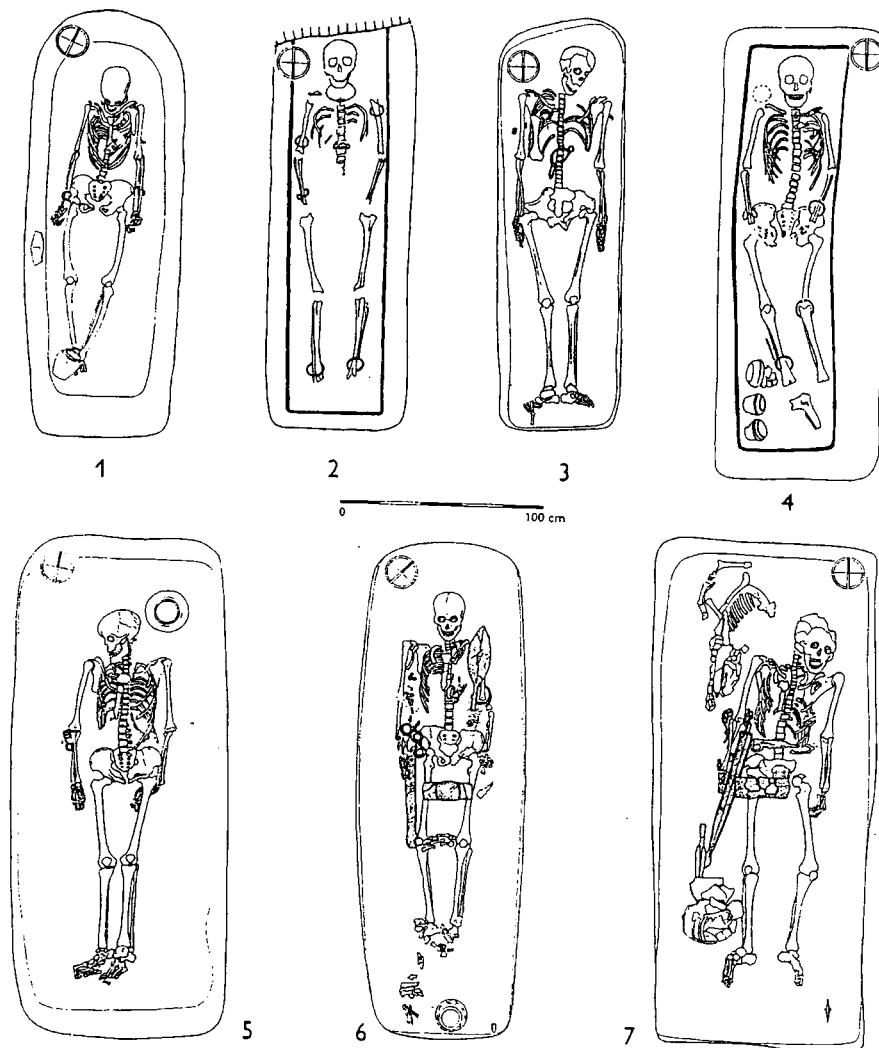


Fig. 132. Závist, reconstruction of outer gate established in La Tène A period, reestablished in the Late La Tène period (after Motyková et al. 1991). Two further gates guard the approach to the Závist acropolis.

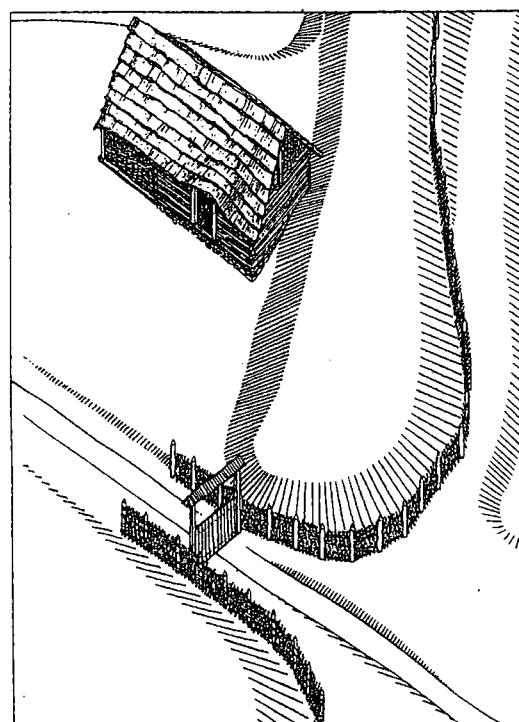


Fig. 133. Staré Hradisko, site plan with gates and (ditch and bank) fortifications indicated (after Čižmář 1989).

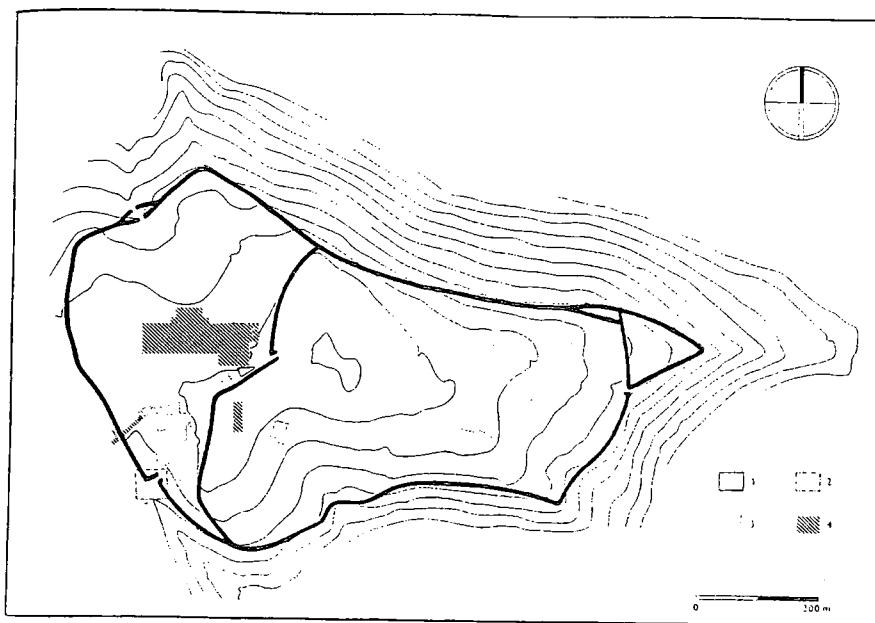


Fig. 134. Staré Hradisko, suburb excavation of Čižmář (after Čižmář 1989). The junction of this partial compound (bounded by tracks or paved roads) with Meduna's earlier investigations is indicated in the lower left corner of the excavation plan.



Fig. 135. Roman Iron Age sites in Bohemia.

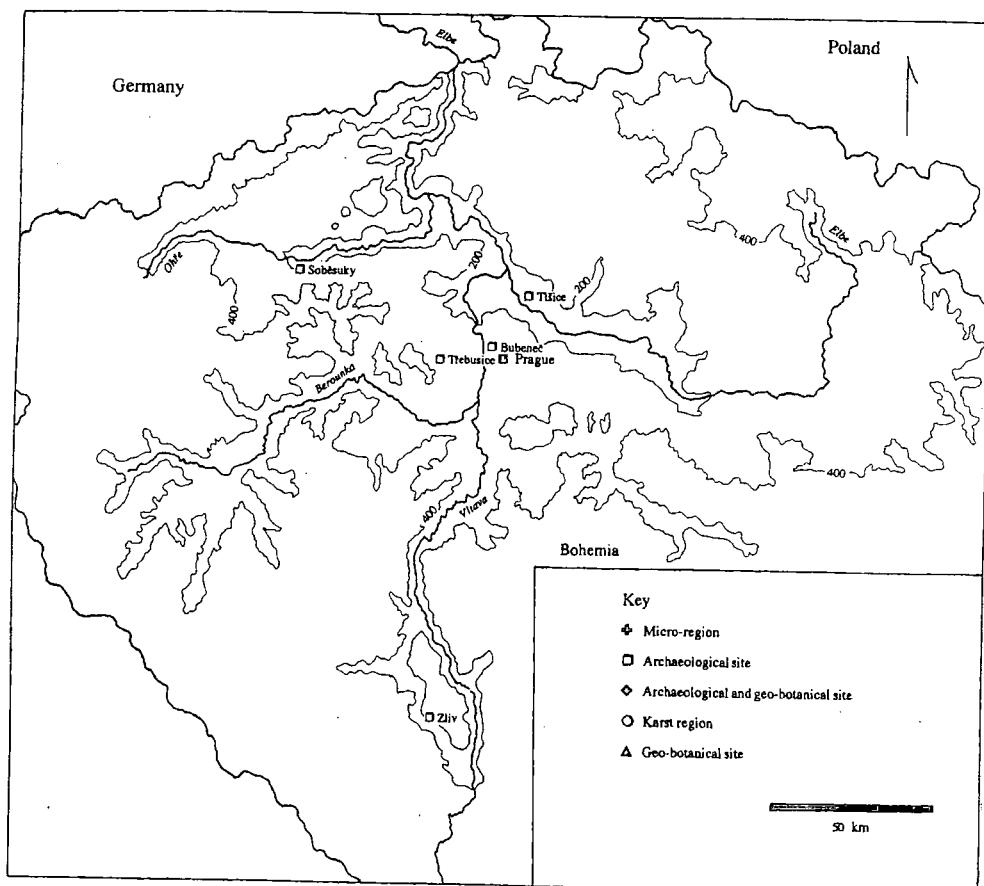


Fig. 136. Roman Iron Age sites in Moravia and Slovakia.

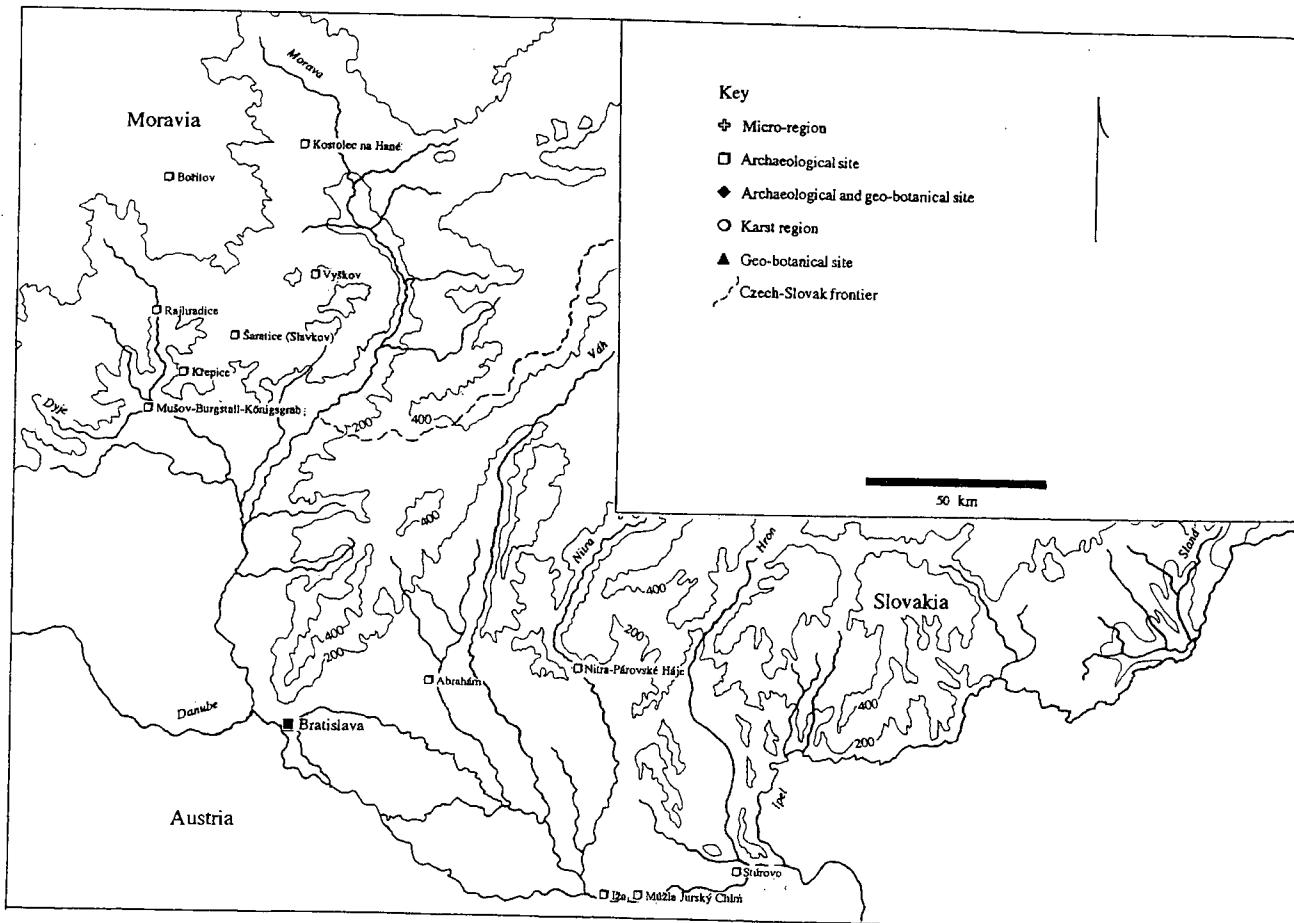


Fig. 137. Musov-Königsgrab, bronze kettle with portrait heads (after Tejral 1992). Note the representation of the Suebic knot in hair style of busts remarked upon in Roman descriptions of Germanic tribes of the Marcomannic War period. Four other bronze vessels were placed in this chamber grave amongst a collection of 150 artifacts of cosmopolitan (Gallic to Sarmatian) origin.



Fig. 138. Vyškov, Early Roman Iron Age settlement (after Peškař 1961).

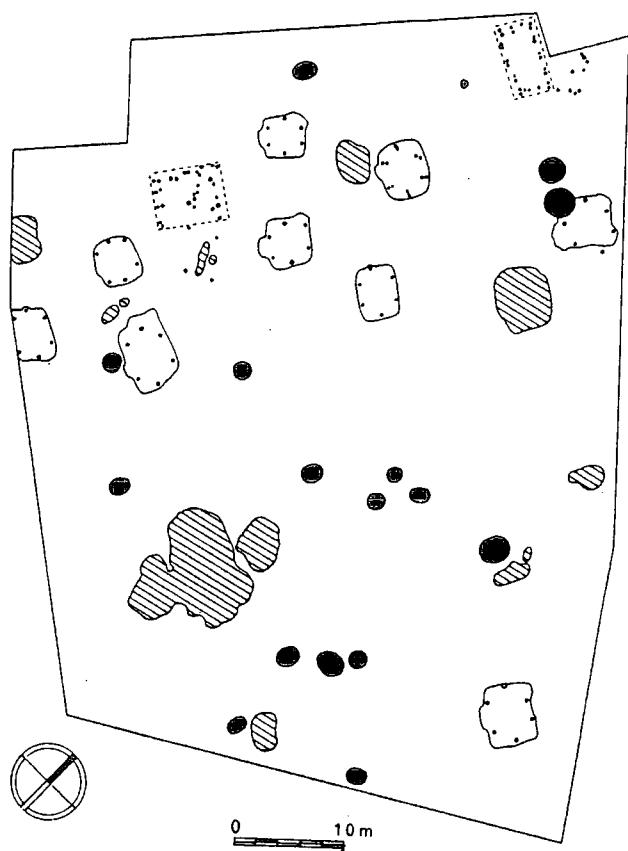


Fig. 139. Late Roman houses (after Tejral 1990). Six-posters (1-2, 5-6) derive from Mušov in South Moravia. Smaller features (3-4) derive from Klein Meiseldorf in Lower Austria.

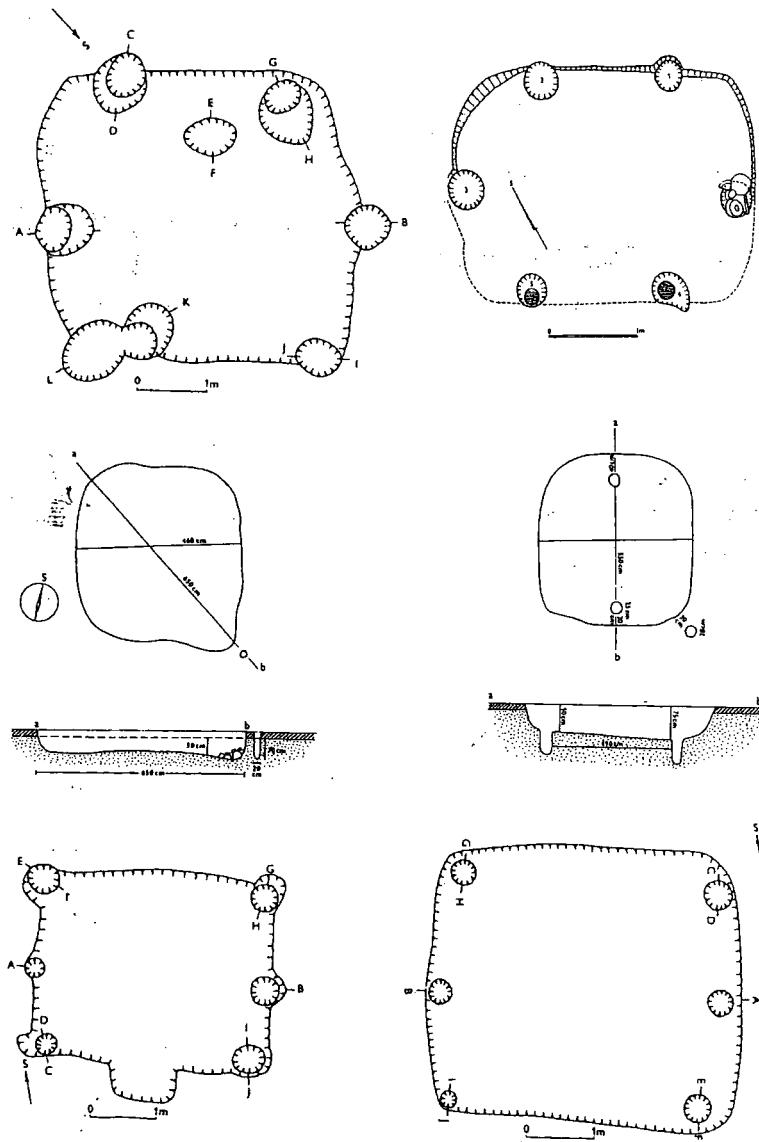


Fig. 140. Migration period houses (after Tejral 1990). Hut 1 derives from Brod, Huts 2-3 derive from Lovčičky and Hut 4 derives from Drysice.

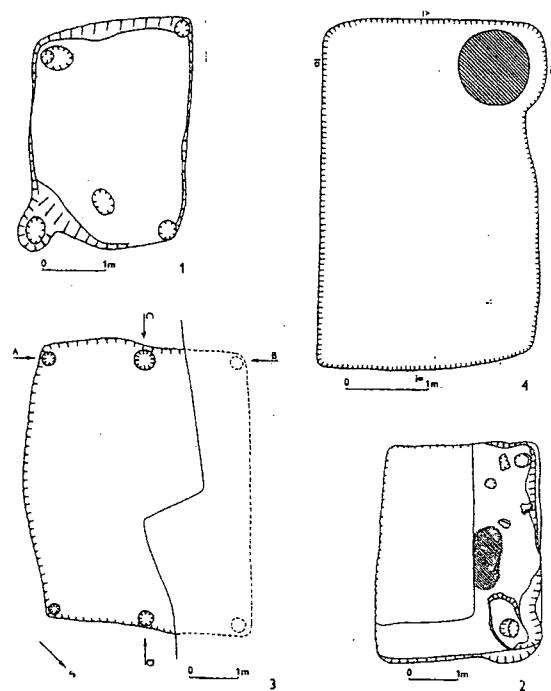


Fig. 141. Pottery sherd densities from Iron Age features at Radovesice 23 (after Salač 1995). Site chronology from the Late Hallstatt to Late La Tène era demonstrates a micro-migration from east to west at this Iron Age settlement. Sherd density data from the La Tène period (based on settlement finds of two-poster huts) exhibit a general internal consistency.

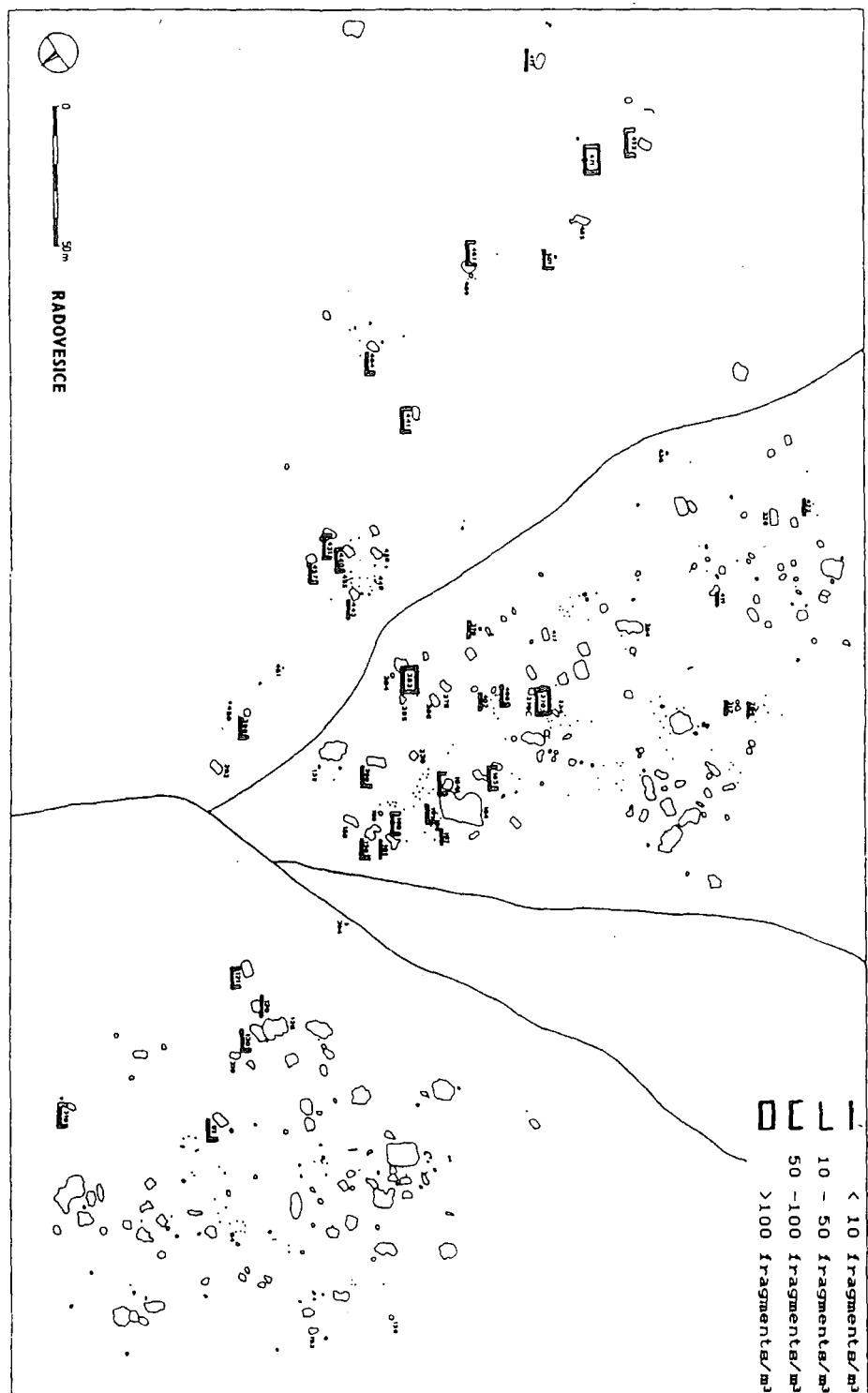


Fig. 142. Dresserová's reconstruction of Late Hallstatt land-use in the basin of Vinořský potok (after Dresslerová 1995c). Patterns indicate settlements (1), fallow and pasture (2), fields (3), forest (4), grazed wood (5) and the steam valley (6). Pollen data indicates most of the grazed woodland to be open pasture, while the area in active cultivation (3) should be expanded by (min.) 400% during the Late Hallstatt.

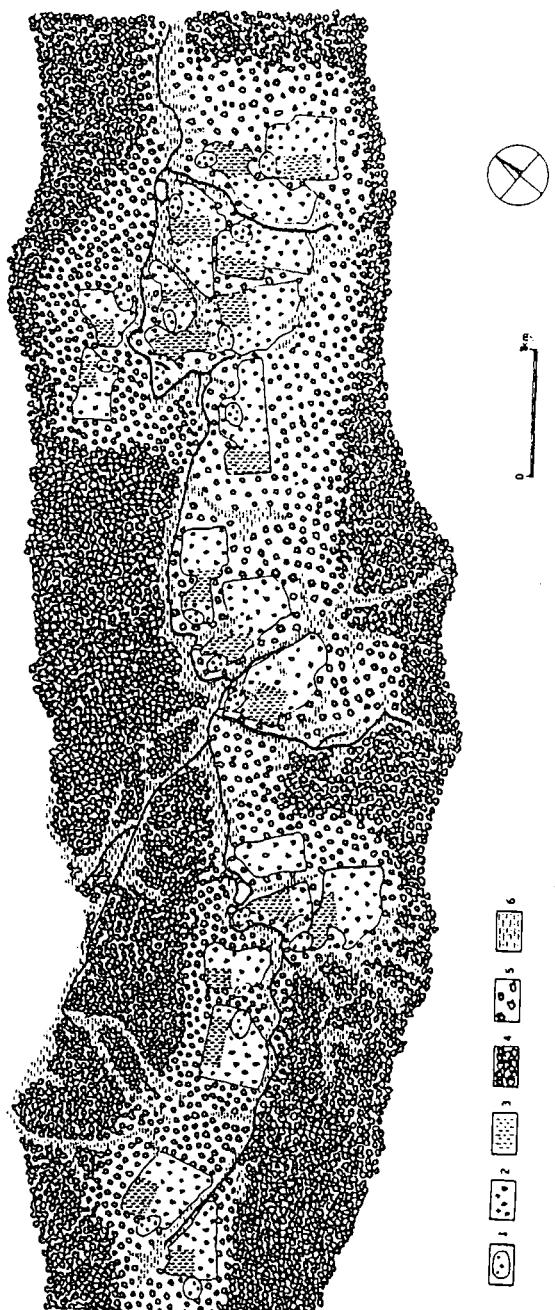


Fig. 143. Nitriansky Hrádok, profile of Mad'arovce Culture Feature 3 cutting into Late Neolithic ditch (after Točík 1981).

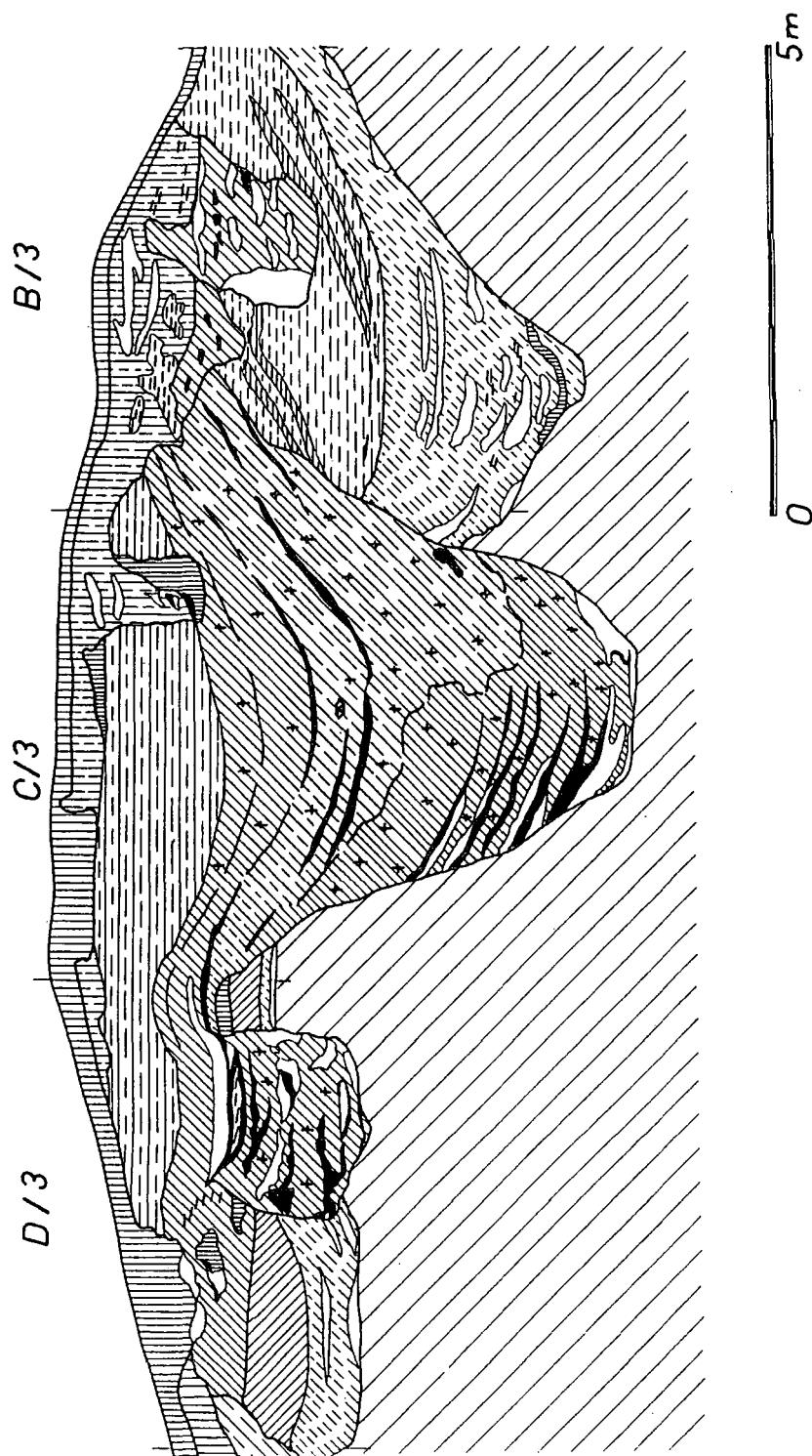


Fig. 144. Nitriansky Hrádok, excavation of Feature 3 in progress (after Točík 1981).



Fig. 145. Bio-geographic zonation of the Czech and Slovak Republics (after Opravil 1967).

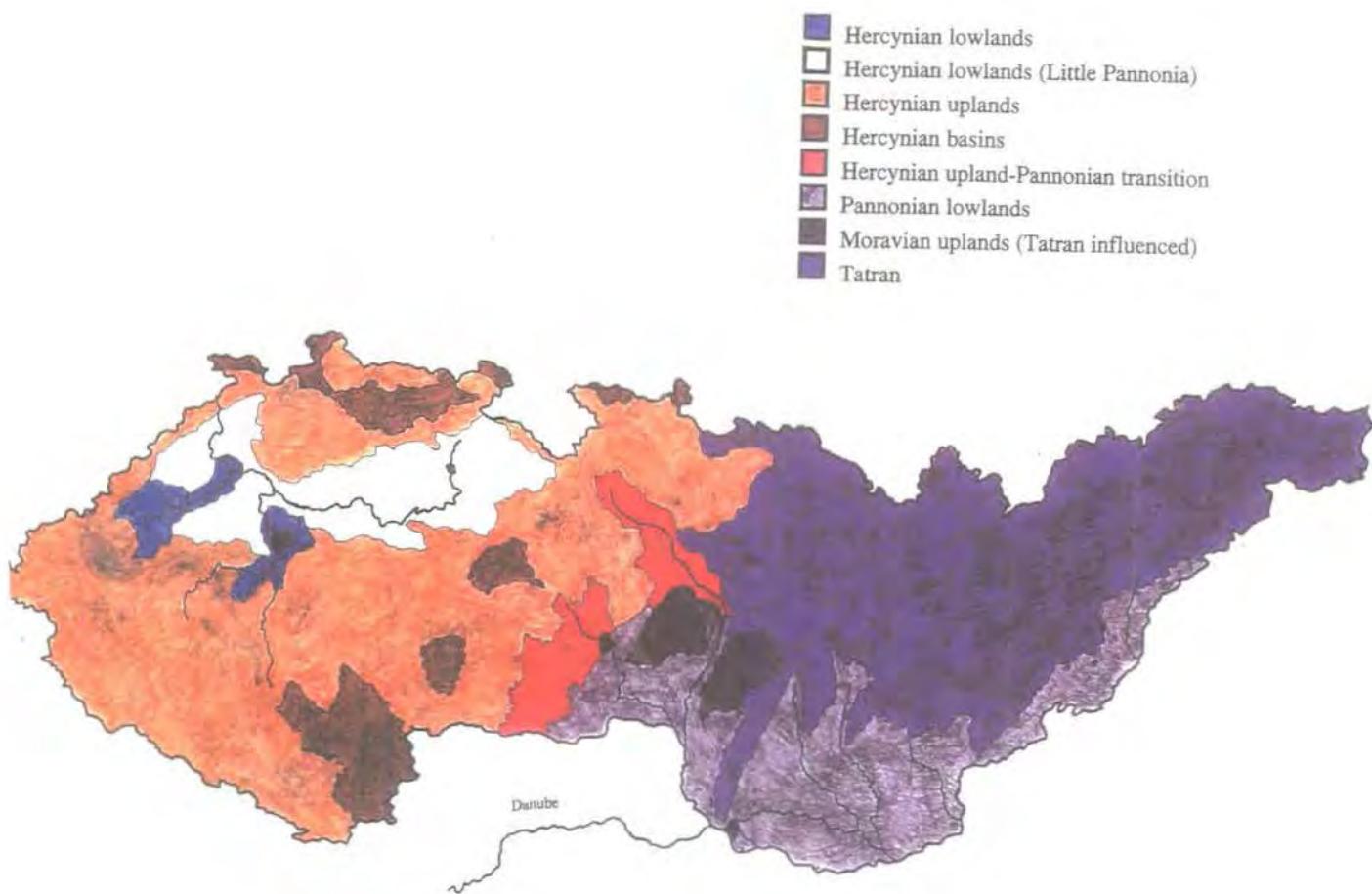


Fig. 146. Vegetation map of the Czech and Slovak Republics (adapted after various sources)

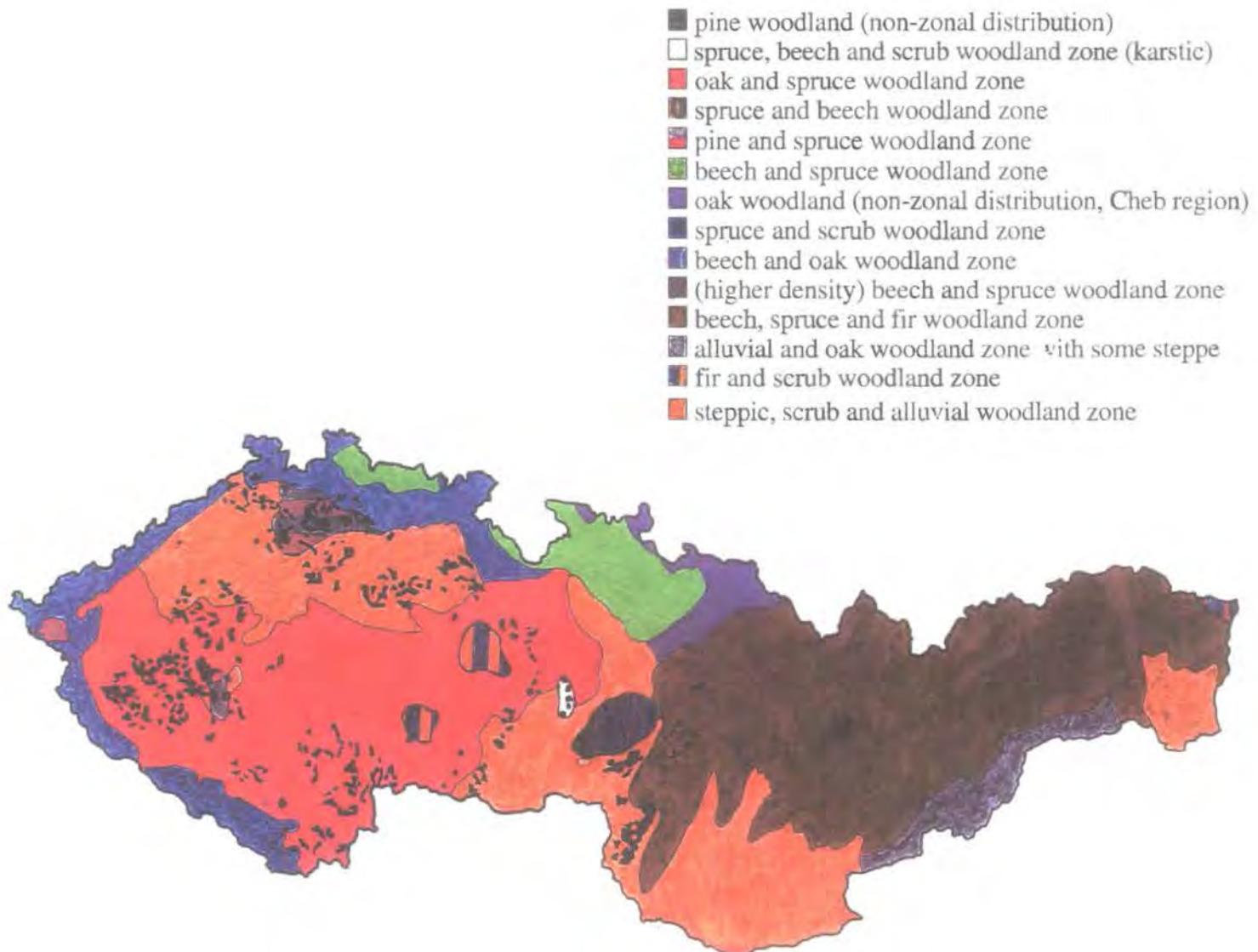


Fig. 147. Soil geologic map of the Czech and Slovak Republics (after Ústřední Ústav Geologický 1967)

- czernozems
- brown-earths
- illimerised soils
- para-brown earths
- (poorly developed) upland soils
- grey woodland soils
- rendzinas
- wetland soils
- alluvial inundation sediments
- semi-gleyed soil-czernozem transitional zone

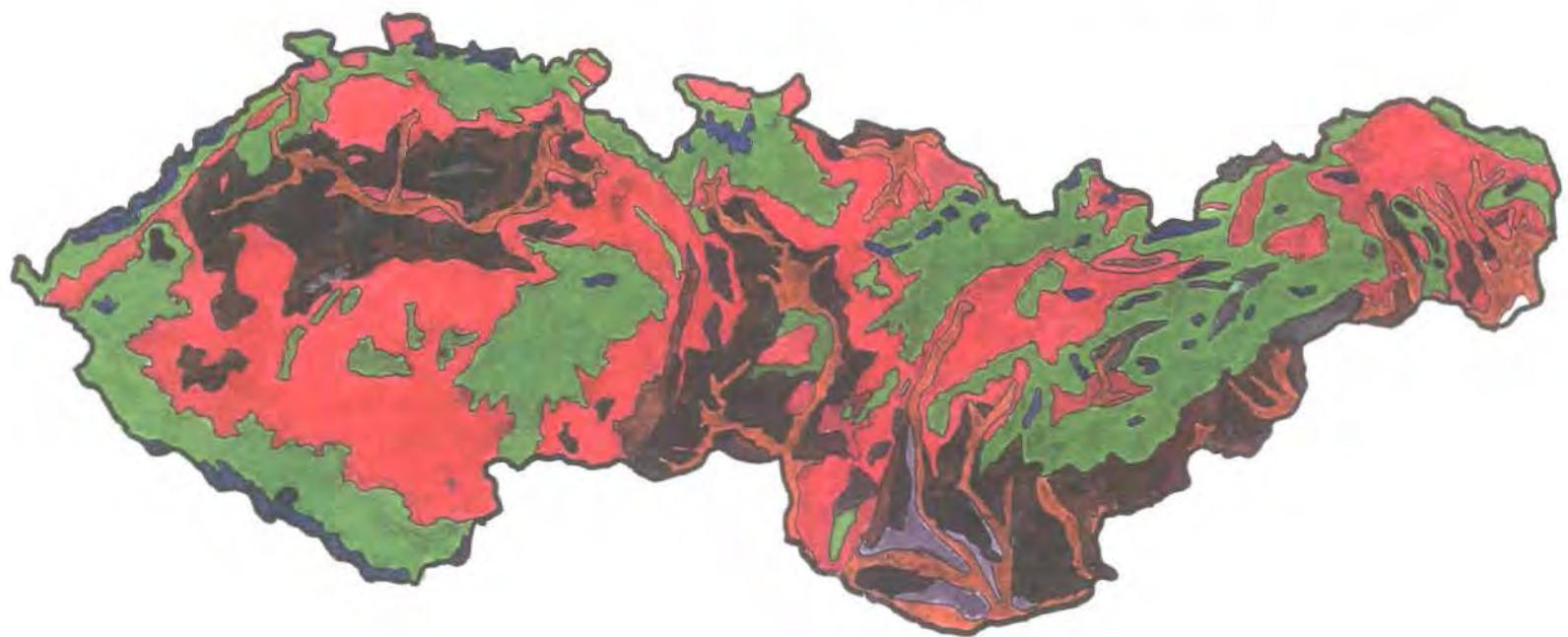




Fig. 148. Overview map of select sites. Site names are keyed to numbers as follows: 1. Konobrže, 2. Lužický potok, Čachovice, Tušemice, 3. Komorany, 4. Lomský potok, Liptice, 5. Radovesice, 6. Vranský potok, Vraný, 7. Litoměrice, 8. Doksy, 9. Únětický potok, Rotztoky, Prague-Baba, -Lysolaje, -Podhoří, -Bubeneč, 10. Vinořský potok, Vinoř, Jenstejn, 11. Srbsko, 12. Řežabinec, 13. Bylany, 14. Bezkov, Šatov, Těšetice, 15. V Pískách, Dolní Veštonice, 16. Mikulčice, 17. Mistřín, 18. Vracov, 19. Strážnice, 20. Mýtna Nová Ves, 21. Nitrianský Hradok, 22. Březno, Postolopryty, 23. Vikletice, Žatec, Soběsuky, 24. Slány, Homolka, 25. Kolín, Velim, 26. Jevišovice, 27. Křepice, 28. Grešlové Myto, 29. Brno-Lišeň, -Holásky, 30. Ostapovice, Ledce, 31. Krumvíř, 32. Rmíz, 33. Hulin, 34. Hlinsko, 35. Iža, Můžla Jurský Chlm, 36. Kladná-Zíliň, 37. Malé Kosihy, 38. Svođín, 39. Bajč, 40. Mikulovice, Hradec (Kadaň), 41. Radonice, Chotěbudice, 42. Blšany, 43. Černosice, 44. Hradec Králové, Předměřice, 45. Horní Počaply, 46. Blučina, 47. Lovčíčky, 48. Velká Hostěradky, Křenovice, 49. Uherské Hradiště, 50. Sehradice, 51. Vlachovice, 52. Hradisko, 53. Moravičany, 54. Holešov, 55. Pri Mylne (Budmerice), 56. Haje, Abrahám, 57. Čataj, 58. Veselé, 59. Zámek (Boleráz), 60. Moravany nad Váhom, 61. Ješovce, 62. Hradný Kopec, Nitra Párovské Háje, 63. Bánov, 64. Dvory nad Žitavou, 65. Kamenín, 66. Radzovce, 67. Včelince, 68. Chotín, 69. Trnovec, 70. Sered', 71. Horákov, 72. Býčí Skála, 73. Zelená Hora, 74. Černov, 75. Náklo, 76. Hostýn, 77. Požaha, 78. Staré Hradisko, 79. Bořitov, 80. Závist, 81. Litomerice, 82. Poláky, 83. Želenice, 84. Třebusice, 85. Tišice, 86. Radvaň nad Dunajom.

