

DISSERTATIONES ARCHAEOLOGICAE

ex Instituto Archaeologico Universitatis de Rolando Eötvös nominatae



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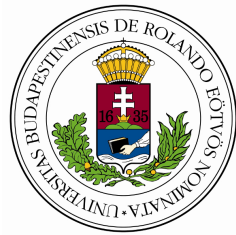
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Gabrieli Váci quadragenario dedicatae



Budapest 2018

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CONTENTS

Zsolt MESTER 9

In memoriam Jacques Tixier (1925–2018)

ARTICLES

Katalin SEBŐK 13

On the possibilities of interpreting Neolithic pottery – Az újkőkori kerámia értelmezési lehetőségeiről

András FÜZESI – Pál RACZKY 43

Öcsöd-Kováshalom. Potscape of a Late Neolithic site in the Tisza region

Katalin SEBŐK – Norbert FARAGÓ 147

Theory into practice: basic connections and stylistic affiliations of the Late Neolithic settlement at Pusztataskony-Ledence 1

Eszter SOLNAY 179

Early Copper Age Graves from Polgár-Nagy-Kasziba

László GUCSI – Nóra SZABÓ 217

Examination and possible interpretations of a Middle Bronze Age structured deposition

Kristóf FÜLÖP 287

Why is it so rare and random to find pyre sites? Two cremation experiments to understand the characteristics of pyre sites and their investigational possibilities

Gábor János TARBAY 313

“Looted Warriors” from Eastern Europe

Péter MOGYORÓS 361

Pre-Scythian burial in Tiszakürt

Szilvia JOHÁCZI 371

A New Method in the Attribution? Attempts of the Employment of Geometric Morphometrics in the Attribution of Late Archaic Attic Lekythoi

Anita BENES	419
<hr/>	
<i>The Roman aqueduct of Brigetio</i>	
Lajos JUHÁSZ	441
<hr/>	
<i>A republican plated denarius from Aquincum</i>	
Barbara HAJDU	445
<hr/>	
<i>Terra sigillata from the territory of the civil town of Brigetio</i>	
Krisztina HOPPÁL – István VIDA – Shinatria ADHITYATAMA – LU Yahui	461
<hr/>	
<i>‘All that glitters is not Roman’. Roman coins discovered in East Java, Indonesia. A study on new data with an overview on other coins discovered beyond India</i>	
FIELD REPORTS	
Zsolt MESTER – Ferenc CSERPÁK – Norbert FARAGÓ	493
<hr/>	
<i>Preliminary report on the excavation at Andornaktálya-Marinka in 2018</i>	
Kristóf FÜLÖP – Denisa M. LÖNHARDT – Nóra SZABÓ – Gábor VÁCZI	499
<hr/>	
<i>Preliminary report on the excavation of the site Tizsakürt-Zsilke-tanya</i>	
Bence SIMON – Szilvia JOHÁCSI – Zita KIS	515
<hr/>	
<i>Short report on a rescue excavation of a prehistoric and Árpadian Age site near Tura (Pest County, Hungary)</i>	
Zoltán CZAJLIK – Katalin NOVINSZKI-GROMA – László RUPNIK – András BÖDŐCS – et al.	527
<hr/>	
<i>Archaeological investigations on the Süttő plateau in 2018</i>	
Dávid BARTUS – László BORHY – Szilvia JOHÁCSI – Emese SZÁMADÓ	541
<hr/>	
<i>Short report on the excavations in the legionary fortress of Brigetio (2017–2018)</i>	
Bence SIMON – Szilvia JOHÁCSI	549
<hr/>	
<i>Short report on the rescue excavations in the Roman Age Barbaricum near Abony (Pest County, Hungary)</i>	
Szabolcs Balázs NAGY	557
<hr/>	
<i>Recent excavations at the medieval castle of Bánd</i>	

THESIS ABSTRACTS

Rita JENEY

573

Lost Collection from a Lost River: Interpreting Sir Aurel Stein's "Sarasvatī Tour" in the History of South Asian Archaeology

István VIDA

591

The Chronology of the Marcomannic-Sarmatian wars. The Danubian wars of Marcus Aurelius in the light of numismatics

Zsófia MASEK

597

Settlement History of the Middle Tisza Region in the 4th–6th centuries AD. According to the Evaluation of the Material from Rákóczifalva-Bagi-földek 5–8–8A sites

Alpár DOBOS

621

Transformations of the human communities in the eastern part of the Carpathian Basin between the middle of the 5th and 7th century. Row-grave cemeteries in Transylvania, Partium and Banat

Settlement History of the Middle Tisza Region in the 4th–6th centuries AD

According to the Evaluation of the Material from Rákóczifalva-
Bagi-földek 5–8–8A sites

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Abstract

Abstract of PhD thesis submitted in 2018 to the Archaeology Doctoral Programme, Doctoral School of History, Eötvös Loránd University, Budapest under the supervision of Tivadar Vida.

Chronological and geographical frames

The main set of questions discussed in the thesis within historical aspects focuses on the 5th-century settlement network on the Great Hungarian Plain and on its chronological changes. The chronological frames given in the title are defined by the basic phases of the archaeological material. Regarding the settlements, the number of distinctive chronological horizons is smaller than of the historical phases. These chronological horizons are usually defined as late Sarmatian–Hunnic and Gepidic. These horizons inevitably give broader archaeological frames including the end of the Sarmatian period, the Hunnic period and the Gepidic Kingdom, lasting altogether from the late 4th until the mid-6th century.

The geographical borders are defined by the Middle Tisza mesoregion, the largest part of which lies in Jász-Nagykun-Szolnok County, Hungary. The western and northern borders of the investigated territory are adapted to the archaeological background. The main aim of the dissertation is to explore the central Sarmatian Barbaricum, and only additionally to make a slight overview of the independent research questions of the Sarmatian–Germanic borders in the Roman times. Therefore the northern border of the investigated territory on the Danube–Tisza Interfluve is defined by the southern line of the linear dykes, namely the Csörsz-dyke (Devil's Dyke) of the Great Hungarian Plain.

Main goals

The basis of the thesis is the archaeological material from the excavations of an early medieval site at Rákóczifalva-Bagi-földek and a Gepidic settlement at Tiszabura-Bónishát, both of which were conducted by the Eötvös Loránd University, the first one in 2006–2007, while the second in 2009. The Sarmatian and Gepidic periods of this region are relatively well-studied regarding the overall situation of the Great Hungarian Plain,¹ thus the available information seemed to

1 H. VADAY 1989; VADAY – HORVÁTH 2005; and many publications from János Cseh, esp. CSEH 1986; CSEH 1990; CSEH 1991; CSEH 1993; CSEH 2004; CSEH 2015.

be sufficient to carry out an evaluation on a regional scale. As the evaluation continued, the importance of the material from Rákóczifalva and the role of the evaluation of its ceramic finds increased. However, getting more acquainted with the methodology and the actual research status of the investigated territory it became obvious that the settlement history can only be explored properly on a case-study level by choosing particular microregions (*Fig. 1*).

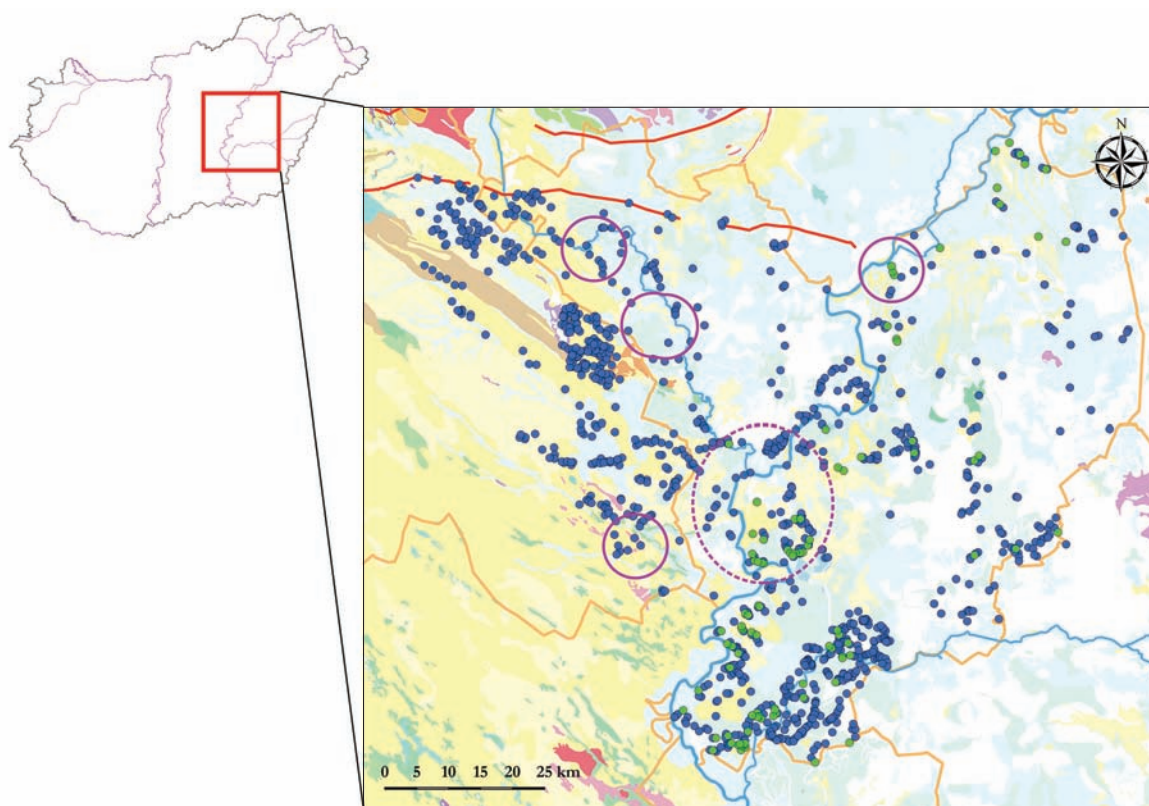


Fig. 1. The investigated territory in the Middle Tisza Region with the studied micro-regions (blue dots: Sarmatian-period sites, green dots: Gepidic-period sites, red lines: Csörsz-dyke).

Methodology and sources of the settlement research

The evaluations of the ceramic finds from the settlements at Rákóczifalva and Tiszabura were prepared using a ‘classical’ typo-chronological approach. There are several similarly significant or even larger late Sarmatian-period assemblages available but only two – from Békés County – comparable to Rákóczifalva have been published so far.² Therefore larger analyses of regional characteristics were very important. The Gepidic-period material from Rákóczifalva is the largest such published assemblage. Beside the evaluation of the pottery, the thesis presents a structural analysis of the excavated settlements. In the assessment of the pottery and the settlement structure of Rákóczifalva special significance had the so-called refitting, e.g. the analysis of the complementary fragments of particular vessels collected from different stratigraphical units. Altogether 138 such connections were traced; most of them can be connected to the destruction strata of the late Sarmatian–Hunnic-period settlement (*Fig. 2*).³ The structural analysis of the settlement from the Gepidic period, the separation of the phases

² From Endrőd and Örménykút by Andrea Vaday: VADAY et al. 2011.

³ MASEK 2015a.

of sunken-floor features was prepared using multivariate statistics (*Fig. 3*).⁴ The relative chronology of the settlements gave a unique possibility in defining the chronological sequel of the settlement phases. The absolute chronology was based on the grave pottery from the late Sarmatian, Hunnic and Gepidic periods, supplemented with the analysis of the dating of small finds from the settlement features (antler combs and fibulae).

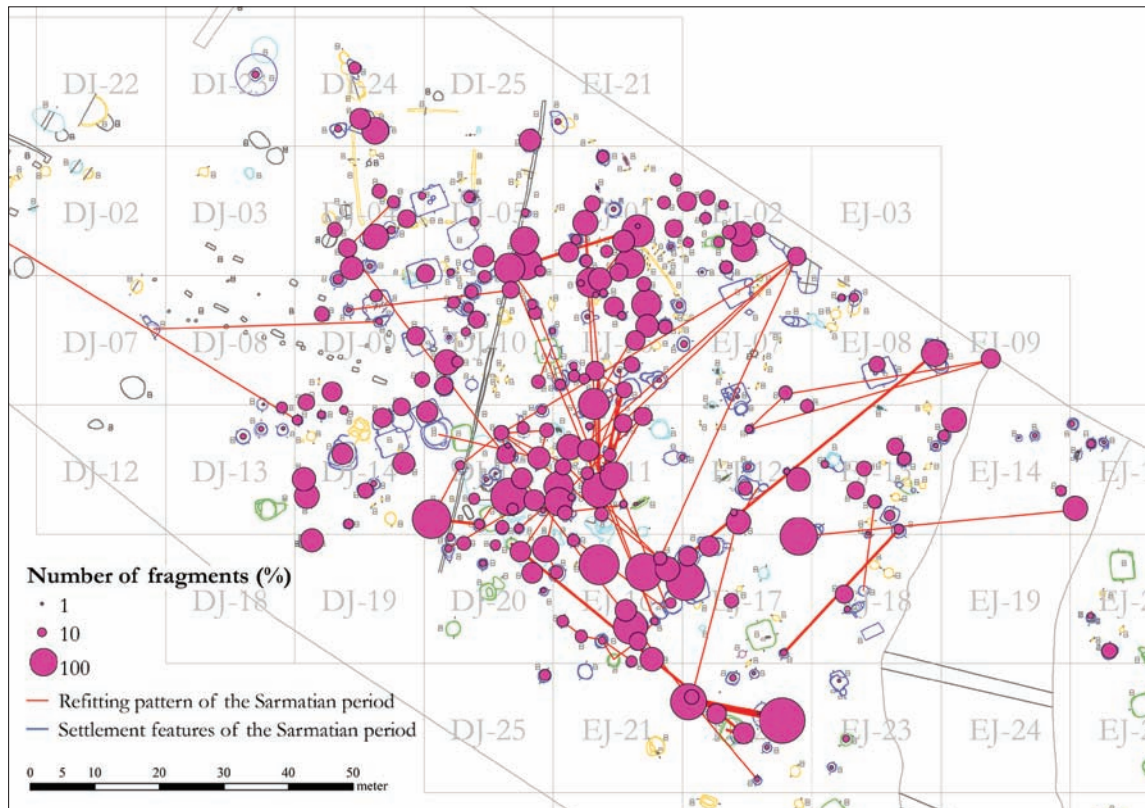


Fig. 2. Rákóczifalva-Bagi-földek, Horizon 1, settlement unit 1, showing the results of the refitting of the ceramic material.

The analysis of the settlement was followed by the comparative evaluation of the ceramic material, focusing on the functional and stylistic aspects and their changes. This research was built on methods of symbolic functionalist analyses.⁵

Methodology and sources of the regional research

The investigated microregions of the Middle Tisza Region were created around archaeological sites of the Hunnic period (*Fig. 1*). Two of these microregions are located on the left bank of the Tisza River, in the vicinity of the sites of Rákóczifalva and Tiszabura evaluated in detail, where Hunnic-period graves were also found. Three other microregions are situated in the Danube–Tisza Interfluvium with altogether three Hunnic period sites. The first one of them is a group of graves traditionally interpreted as of Alan character (Jászberény), another one is a grave find of Germanic character (Jánoshida) and the last one is a Hunnic metal cauldron (Törtel). The regional evaluation was prepared using different available tools and instruments

4 MASEK 2015b.

5 HENRICKSON – MCDONALD 1983; RICE 1987, 249–252, 268–272; HODDER 1989.

(archival sources, topographic surveys, field walks, aerial photography, and sedimentological data). Detailed conclusions of their usage can be drawn only by taking into consideration the settlement geography of the broader region. This part of the research was supplemented with an overview of the environmental-archaeological results of the Early Middle Ages in the Great Hungarian Plain.

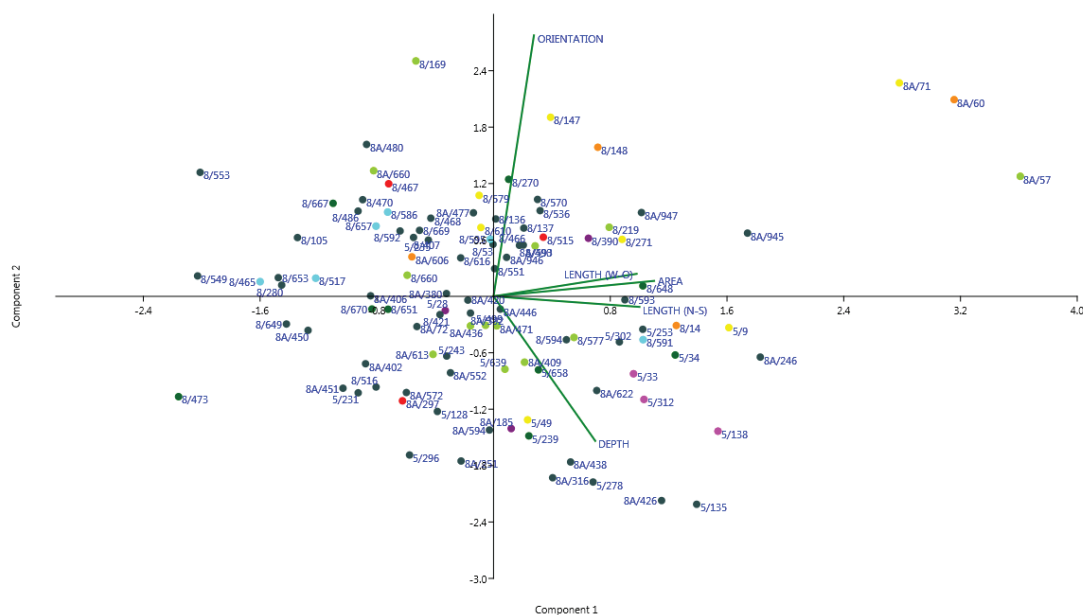


Fig. 3. Rákóczifalva-Bagi-földek, principal component analysis (PCA) of the sunken-floor features from Horizons 2–4, the main structure-types of the buildings are coloured.

Results of the settlement analysis

The largest part of the dissertation consists of the evaluation of the ceramic finds from the Rákóczifalva settlement. The amount of the analysed ceramic fragments reaches up to 18 819 sherds. Four ceramic horizons were separated, the second and the fourth of which were defined at first time on the settlements of the Great Hungarian Plain (Figs 4–5).

The relative chronological relation of the late Sarmatian–Hunnic- and the Gepidic-period pottery has been the subject of debate for quite a long time. At Rákóczifalva, as well as at other settlements, many mixed assemblages were excavated. Based on statistical analyses and the stratigraphy of the site, these ensembles did not present any signs of the continuous production or use of the Sarmatian pottery. What is more, the late Roman-time pottery from mixed contexts may be interpreted as residual ceramic material from later stratigraphic units (Fig. 6).

The first horizon includes the ceramic material of the local late Sarmatian–Hunnic period. Comparing to the so far best published material from Békés and Csongrád counties, it shows distinctive regional differences. With a closer analysis, this can be confirmed also for the fine pottery. According to the general picture, the overwhelming majority of the material consists of untempered, wheel-thrown fine pottery of reduced as well as oxidised firing (Fig. 7). The fine pottery shows a great variety both of forms and rich smoothed-in ornamentation (Fig. 8), including also a significant quantity of Samian-ware imitations with stamped decoration (Fig. 9). The material presents similar proportions of the late Sarmatian fast and slow wheel-

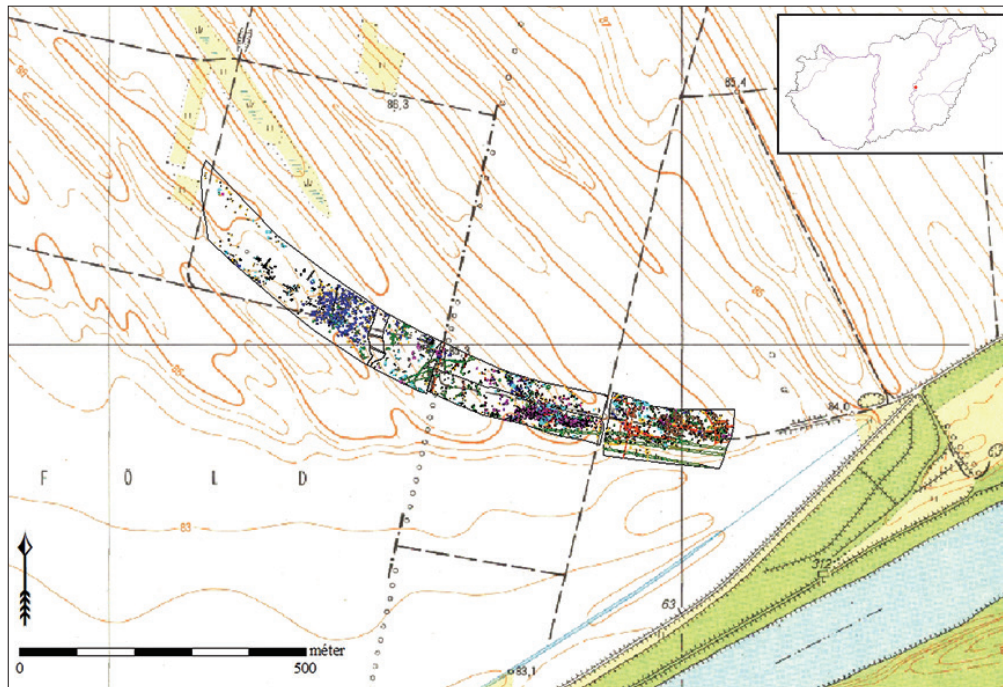


Fig. 4. Rákóczifalva-Bagi-földek 5–8–8A. Overview layout of the site and its geographical environment.

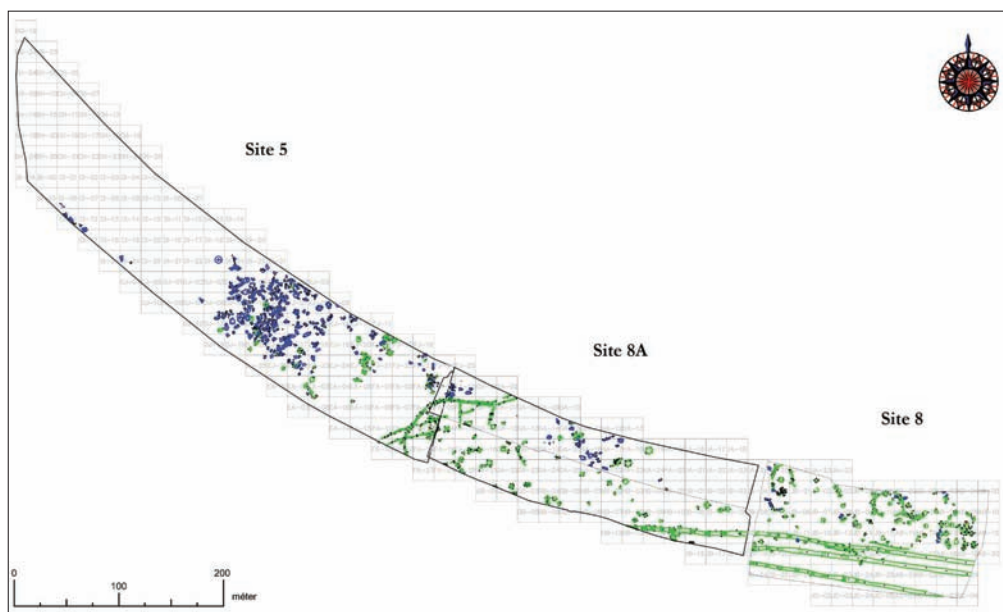


Fig. 5. Rákóczifalva-Bagi-földek 5–8–8A. Settlement horizons of the 4th–6th century AD (blue: Horizon 1, green: Horizons 2–4).

thrown coarse pottery (5–5%). This balanced proportion is not characteristic for any of the published settlement material. The relatively large quantity of coarse pottery of Üllő type implies to trade contacts with the territory situated opposite Aquincum (Budapest).⁶ At the same time, the presence of the slow wheel-thrown, mica-tempered coarse wares refers to

6 This technological group is regarded as which could have been made with coiling technique and hand wheel (ISTVÁNOVITS et al. 2011, 348–349; KULCSÁR – MÉRAI 2011, 66–67), but the details of this research are yet unpublished. This ware shows different technical characteristics as the so-called slow wheel-thrown material, therefore I kept the traditional expression as a technical term.

connections with the southern regions of the Great Hungarian Plain. The workshops of the latter wares produced also the so-called late Sarmatian cauldrons, which occur predominantly in the Trans-Tisza Region (Fig. 10). Besides these well identifiable groups, other types of both slow and fast wheel-thrown ceramic also appear in smaller amounts. These are most probably products of the local (regional), less known ceramic workshops.⁷ The quantity of the hand-formed pottery at the site is relatively high.

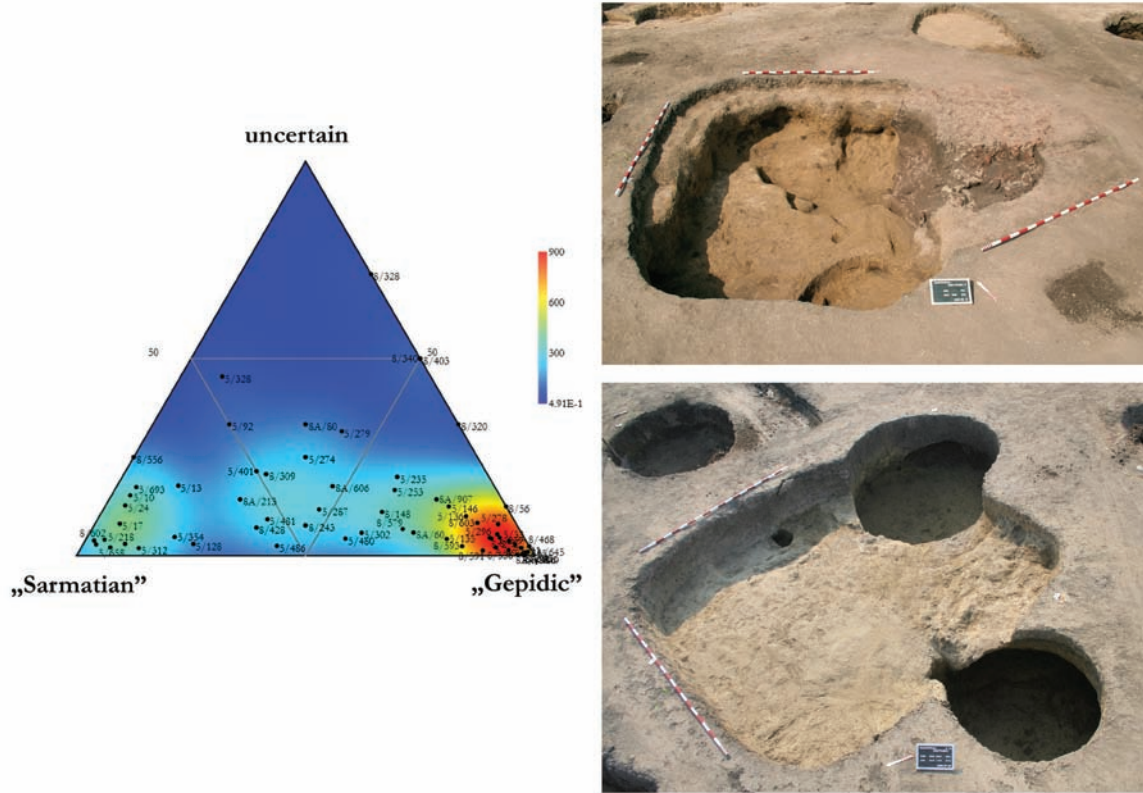


Fig. 6. Rákóczifalva-Bagi-földek 5–8–8A. Ternary diagram of the stratigraphic units of mixed assemblages and two examples for superposition between Sarmatian- (Horizon 1) and Gepidic-period (Horizon 3) features.

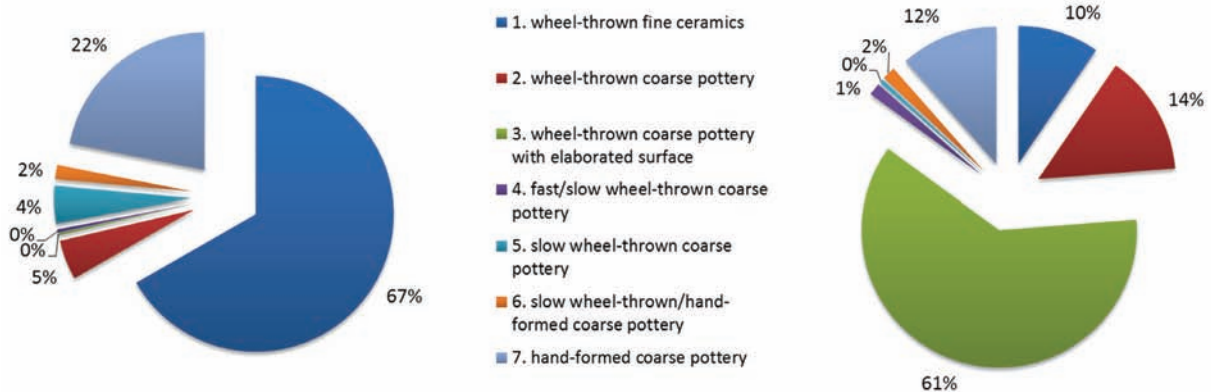


Fig. 7. Rákóczifalva-Bagi-földek 5–8–8A. Proportions of the main technological groups in Horizon 1 (left) and Horizons 2–4 (right).

7 Recently, a similar tendency has been outlined in the southern parts of the Great Hungarian Plain too: Sós-KUTI 2010, 176; BENEDEK et al. 2017, 155, 158–159.

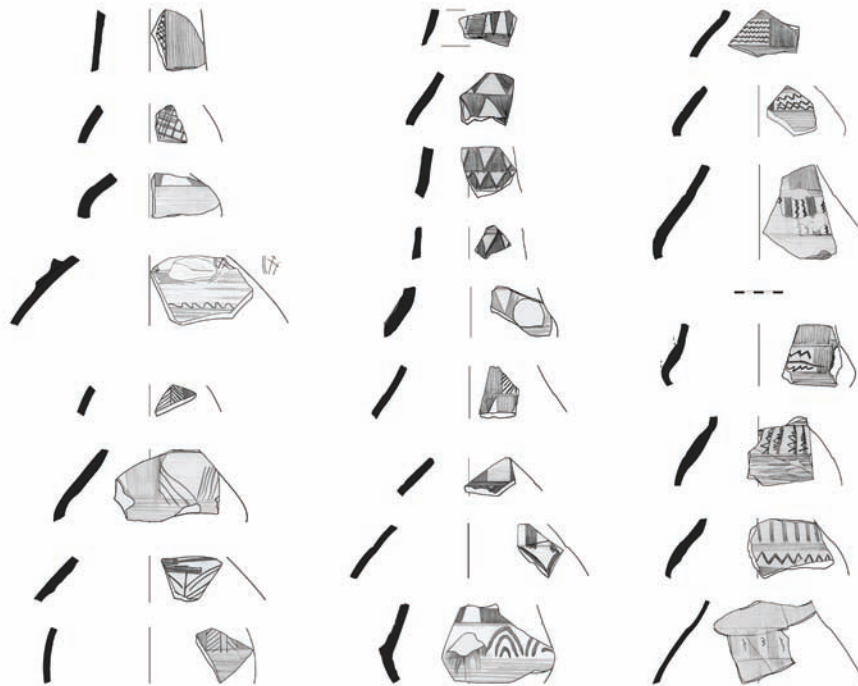


Fig. 8. Rákóczifalva-Bagi-földek 5–8–8A, Horizon 1. Examples for jugs with smoothed-in decoration.

Such a broad inner relation network of the ceramic can be most plausibly interpreted with the location of the site in the central region of the Barbaricum, on the Tisza bank, being thus overlapped with the distribution zone of several more significant pottery workshops. The results of the evaluations also imply that the settlements in the northern part of the Great Hungarian Plain and Upper Tisza Region more-or-less contemporary with the Tiszaföldvár–Rákóczifalva horizon⁸ possessed material culture similar to that of Tiszavasvári-Városföldje-Jegyző tag archaeological site.⁹

Horizon 1 can be observed at several settlement segments. The largest of them is an intensive-ly used, medium size settlement unit with dense, closed structure likely bearing above-surface constructions. The closure of the settlement can be interpreted – using refitting methods – as violent destruction (Figs 2, 6). The burnt debris of the settlement including human remains was levelled into the settlement features, most of all into the storage pits. The pottery from the debris thrown on one of these skeletal remains may be directly connected by refitting to the core of this activity area (Fig. 11). The sunken features existed at the same time cover the whole territory of the settlement unit. The closure of this unit can be dated to the D1/D2 relative chronological phase (these two phases cannot be separated in the settlement materials of the Great Hungarian Plain).



Fig. 9. Rákóczifalva-Bagi-földek 5–8–8A, Horizon 1. Stamped decorations of Samian-ware imitations.

8 VADAY 1994; VADAY 1997.

9 ISTVÁNOVITS 1999.



Fig. 10. Late Sarmatian–Hunnic-period cauldrons in the Hungarian Plain (white dots: cauldrons of slow wheel-thrown, mica-tempered coarse ware, red dot: cauldrons of Üllő-type gritty grey ware).

The pottery of Horizon 2 at Rákóczifalva can be characterised by burnished jugs, a few large burnished vessels and by the so-called Leányfalu-type pot ware of late Roman nature (Fig. 12). This production of the coarse ware shows much higher quality compared to the coarse pots of Horizon 1, and can be explained only by new technological transfer arrived from the Roman (Pannonian) territories. The variety of forms and the style of ornamentation of the fine jugs root in the late Sarmatian material but the technology of their production is lag behind it.

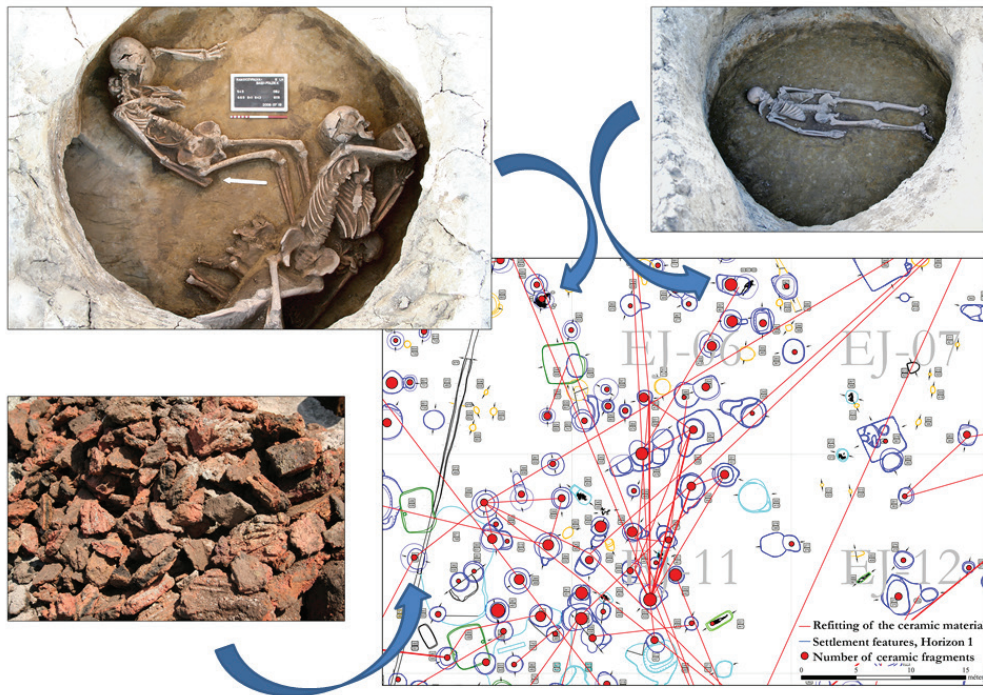


Fig. 11. Rákóczifalva-Bagi-földek, Horizon 1, core of settlement unit 1, examples for burnt debris and human remains levelled into storage pits.

Their style fits in the cultural complex of the Middle Danube Region of the Hunnic period. Their analogies can be traced both in the late Sarmatian–Hunnic period and Hunnic-period grave pottery, as well as in the early Gepidic settlement at Battonya. This material can be dated to the D2/D3 phase of the Central European chronological system. This horizon cannot be undoubtedly identified as Gepidic because the grave pottery from the denser (“row”) cemeteries of the Gepidic period does not contain any analogies for it. The closed assemblage of Horizon 2 can be traced at two segments of the settlement located eastward of the destroyed settlement unit of Horizon 1. Both segments consist of sunken-floor structures and pits, including bell-shaped storage pits. In this period we can assume arrival of new communities settled nearby an old habitation (*Fig. 13*).

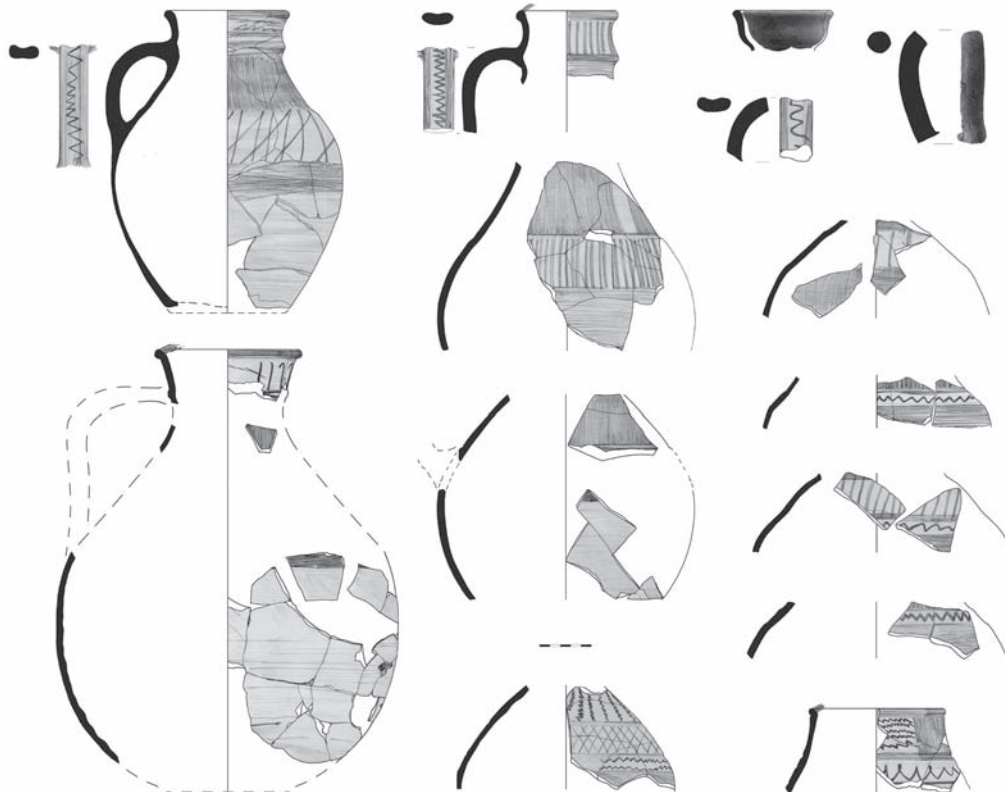


Fig. 12. Rákóczifalva-Bagi-földek 5–8–8A, Horizon 2. Typology of fine pottery jugs.

Horizon 3 represents settlement material ‘classical’ for the Tisza Region in the Gepidic period. It consists of two, hardly separable phases. The development of the forms, some larger, more characteristic assemblages and the settlement structure altogether refer to that the decorative stamped pottery was not yet in use in the first phase of the horizon. Contrarily, in the second phase of the same horizon, the use of burnished pottery decreased while the presence of the stamped wares became common. Fragments of 65 stamped vessels were found at the site (this is the largest such, Gepidic-time assemblage). On the basis of the stamped motifs and the structure of ornamentation, most of the fine pottery can be connected to regional traditions characteristic of the vicinity of Szolnok and the lower part of the Körös River. Rarer stamped motifs and decoration arrangement refer to connections with the northern or southern parts of the Tisza riverside and even with Transdanubia. The wheel-thrown coarse pottery shows a great formal variety (*Fig. 14*). The appearance of large vessels, flaring in their upper part, a higher number of pots with articulated shoulders, and the general presence of strongly splayed

channelled rims and combed decoration are not characteristic of any of the published materials. The technique and the assortment of the forms show that both the coarse pottery of Horizon 1 and the Leányfalu-type wares of Horizon 2 influenced the development of this group. Hand-formed pottery is represented in higher proportion among the material, including most of all so-called Suebian-type pots, the distribution of which is characteristic of Gepidic settlements of the northern part of the Great Hungarian Plain (Figs 7, 15). Their tempering, firing and forms differ from the Sarmatian-period hand-formed material. Changes observable in the traditions of hand-formed pottery unambiguously imply the arrival of new communities.

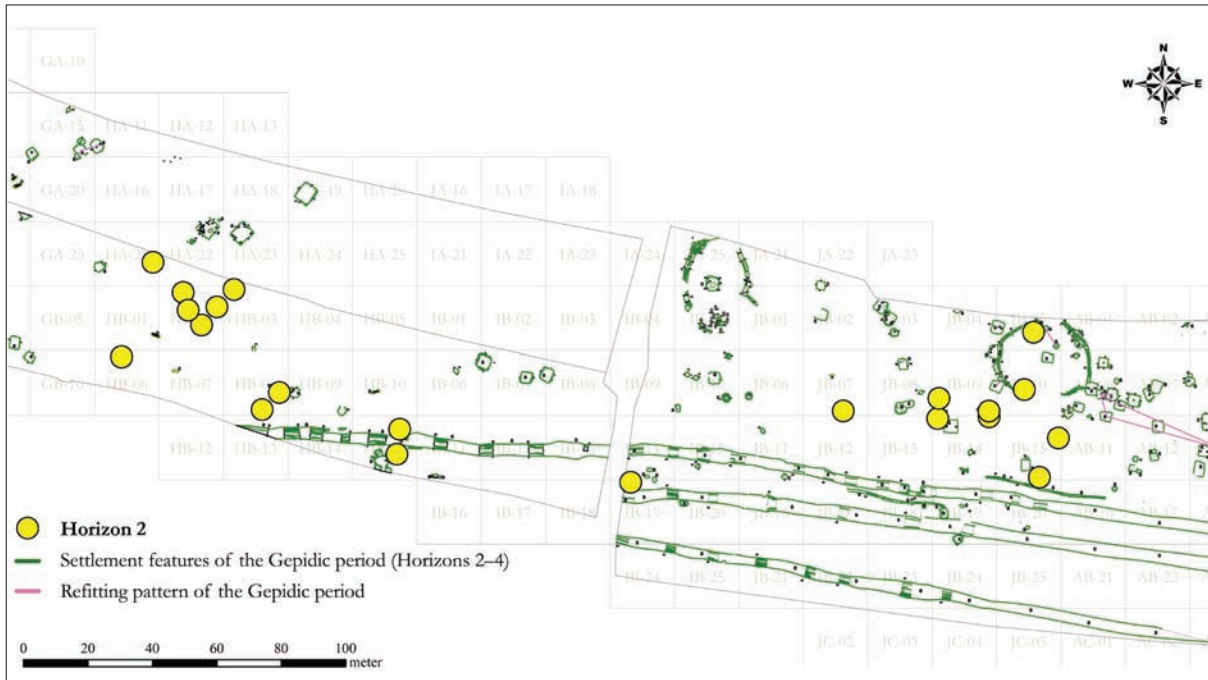


Fig. 13. Rákóczifalva-Bagi-földek 5–8–8A, Horizon 2.

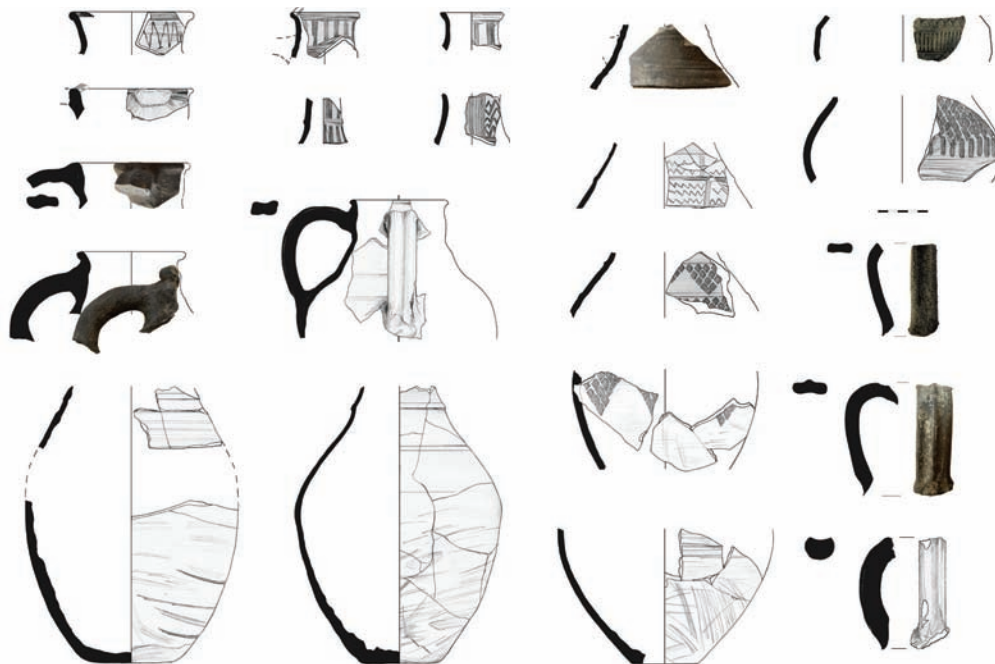


Fig. 14. Rákóczifalva-Bagi-földek 5–8–8A, Horizon 3. Typology of fine and coarse pottery jugs.

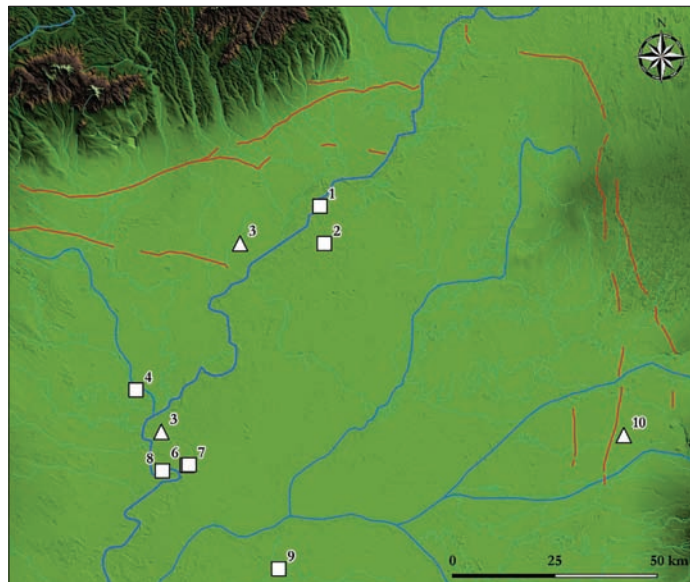


Fig. 15. Overview of sites with Gepidic-period Suebian-type hand-formed pots (square: settlements, triangle: cemeteries).

The Gepidic-period settlement evolved from 5th-century settlement-cores. The appearance of the settlements of Horizons 2 and 3 is similar; no sharp rupture can be detected between them. The sunken-floor dwellings of the settlement were dispersed composing rows or groups and divided by ditch-systems on a large territory. Changes in the economic background are also confirmed by the disappearance of bell-shaped storage pits by Horizon 3. Social isolation can be assumed in case of three huge, up to 30 m² large, sunken-floor buildings, and at least one structure encircled by a ditch. Both mentioned cases can be dated to the 6th century by stamped pottery or a spouted jar. The Gepidic-time settlement is dating to the last third of the 5th and first half of the 6th century, while the stamped pottery might have appeared not earlier than the turn of the 6th century. According to the distribution of the stamped pottery, the territory of the 6th-century settlement might have reached at least 7 ha (Fig. 16).

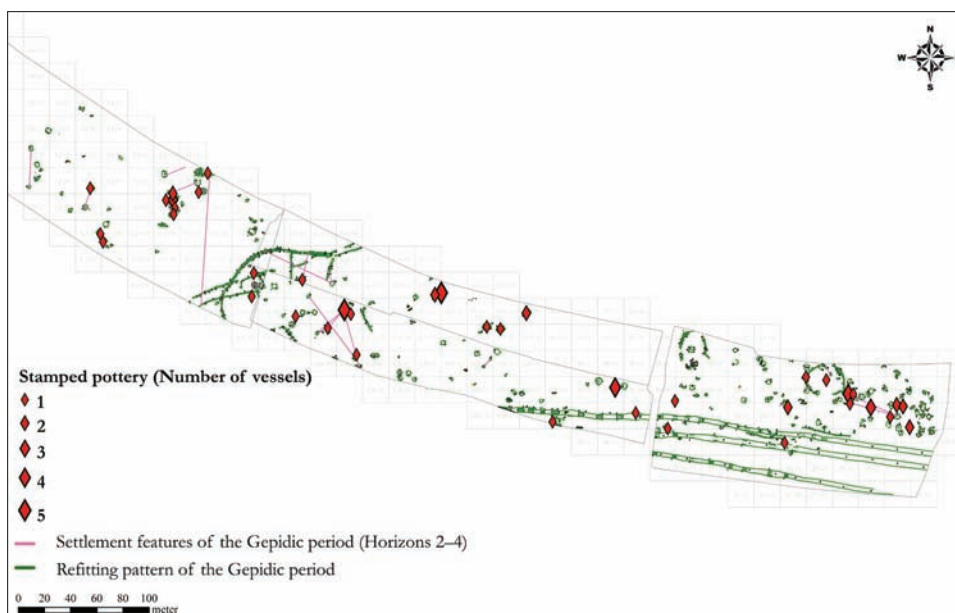


Fig. 16. Rákóczifalva-Bagi-földek 5–8–8A, Horizon 3. Scatter map of the Gepidic-period stamped pottery.



Fig. 17. Rákóczifalva-Bagi-földek 5-8-8A, Horizon 4. Typology of coarse pottery jugs.

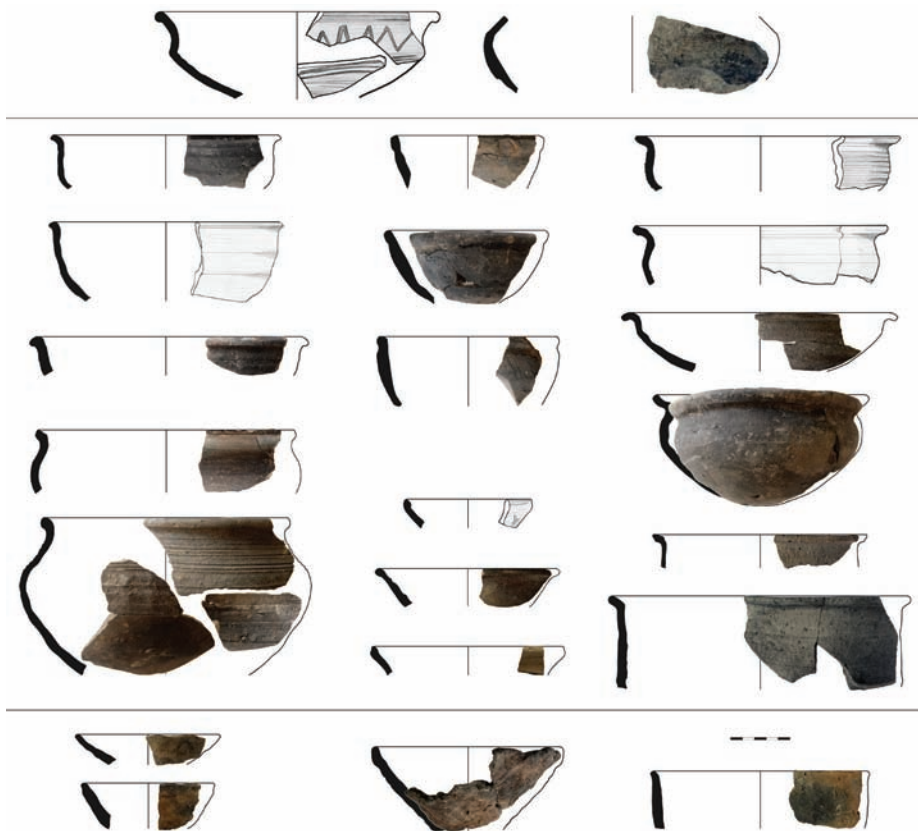


Fig. 18. Rákóczifalva-Bagi-földek 5-8-8A. Typology of bowls in Horizon 2 (above), 3 (in the middle), and 4 (below).

The material of Horizon 4 can be hardly separated from that of Horizon 3 due to the continuous use of the settlement. It can be mentioned among its main characteristics that the untempered fine pottery almost completely disappears, and the use of Gepidic-period decorated ceramics is uncertain. The jugs are tempered, decorated with combed wavy lines (*Fig. 17*). The technology of the wheel-thrown tempered pottery declines. The tempering of the pots and their reductive firing also decay, the tempering is poorer, and the firing colour is lighter. Forms are larger with more elongated upper parts and wider bases. Shapes and decorations point to the Avar pottery (*Fig. 18*). The use of hand-formed ceramics continues. The material associated with Horizon 4 is significantly present in some particular structures of the building groups and in the eastern workshop segment all datable to the phase of Horizon 3. Several components of the ceramic material have no analogies, thus the dating is based predominantly on the relative chronology. The use of the finds could have lasted until the Avar period, and according to some analogies from the Avar time, it can be dated up to the turn of the 7th century.

In the ceramic material of Horizon 3, several features can be observed that show direct connections with Horizon 1, missing at the same time from Horizon 2. The overarching connections between Horizons 1 and 3 could have appeared even if the local population changed. Local Roman-time traditions could have returned into the ceramic material indirectly. Different processes can be observed on the eastern part of the site where no fractures were documented in the settlement structure but on the contrary, continuity of the habitation. Among different sunken-floor features, some workshop structures with cut-in hearths were concentrated here (13 building, 14 hearths). Based on some traces of metalworking, these buildings may be interpreted as blacksmith or metal processing workshops. The pottery finds date them to Horizons 1, 3 and 4. This settlement unit seems to have been a long-live industrial location. The features have only some sporadic late Sarmatian analogies. The construction of analogous buildings with cut-in hearths in the Gepidic period might have been possible only with direct transfer of the traditions that is with the continuity of the population.

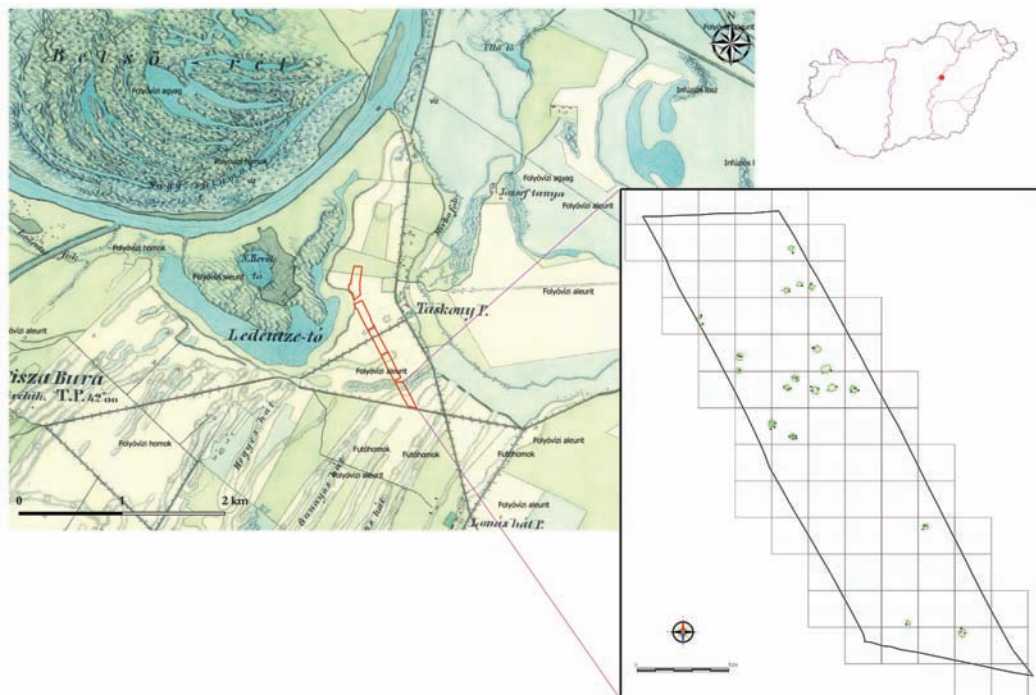


Fig. 19. Tiszabura-Bónishát. Overview of the Gepidic-period settlement and its geographical environment.

The evaluation of the smaller size Gepidic-period settlement at Tiszabura to a great extent helped and confirmed the conclusions drawn from the material of Rákóczifalva (Fig. 19). The homogeneous ceramic material implies to a relatively short lifespan of the site. The quantity of the fine pottery is relatively high, however, from the Gepidic-time fine wares, only the biconical vessels appear (Fig. 20). The shapes and the ornaments typical of the 6th century (pear-shaped vessels, stamped pottery) are absent from the site. The earlier date of the pottery production is supported by the articulated shoulders, the high number of strongly splayed channelled rims, and the grey firing colour with metallic gloss, the absence of the combed decoration and by the presence of relatively large pots. The shapes and the variety of techniques reflect a multi-rooted, undeveloped ceramic tradition. The material from Tiszabura is most probably contemporaneous with Horizon 3, phase 1 of Rákóczifalva. It can be dated to the second half of the 5th century, or as latest to the turn of the 6th century.

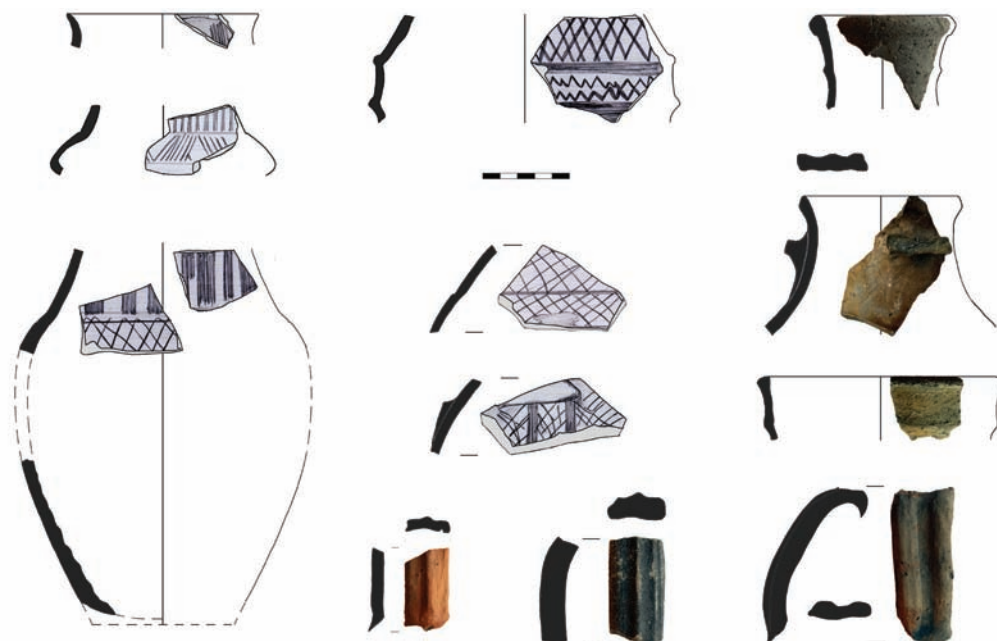


Fig. 20. Tiszabura-Bónishát. Typology of fine pottery and coarse-ware jugs.

Changes of shapes and decorative style and in the ceramic material

There are significant differences between the variety of the shapes of the Sarmatian-period (Horizon 1) and Gepidic-period (Horizon 2–4) ceramic material. It can be assumed in the case of several Gepidic-period vessel-types that their origins root in the late Sarmatian pottery. Despite this, changes of the pottery forms, simplification in the spectre of the formal types, and the decrease in the cubic capacity of the vessels can be clearly observed.

Apart from the pots, the Sarmatian material contains storage vessels and bowls in larger quantities. The Gepidic pottery material, however, was dominated by pots. The dominant functions in the Sarmatian material wares used for storage and dining but unusable for cooking became completely disremembered by the Gepidic time (Fig. 21). Some functions could have been replaced by pots to a smaller extent but due to specific shapes of the Sarmatian-time vessels, replacement can be rather excluded. The transformation of the shapes refers to changes in the dining culture, lifestyle and economic background. In the Sarmatian time, the decorated

vessels could have been used for storing dry substances and liquids, for preparing food without fire, for serving and dining, for preparing and stirring liquids and for their serving and consuming; and also for short-distance transportation.

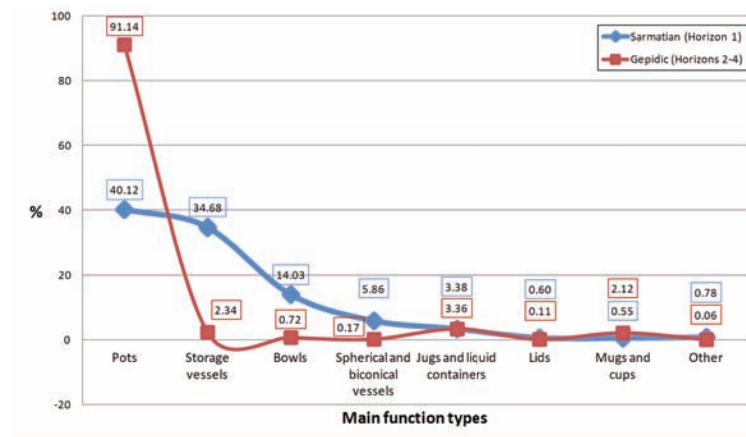


Fig. 21. Rákóczifalva-Bagi-földek. Changes in the main function types of the ceramic material.

In the Gepidic period, small or medium size vessels were decorated. As a result, specific fine pottery was created, combining technology, shapes and ornamenting style. The function of this fine pottery was predominantly consuming and serving drinks, and in case of small mugs presumably individual dining. The capacity and function together shift the accent from the community to an individual and could have served for strengthening personal identity and its communication (Fig. 22). Gepidic pottery – in contrary to Sarmatian – does not refer to any significance of communal traditions or rituals connected to meals or feasting, nor to any particular importance of the agriculture in the life of the settlement.

A significant disruption may be detected in the structure of the settlement of Rákóczifalva as well as between the traditions of pottery production of Horizons 1 and 2; however, stamped pottery appeared only in the second phase of Horizon 3. The spread of stamped fine pottery cannot be explained with a technical background because these techniques were well applicable also to burnished pottery. Its appearance reflects not a new population but rather a new decorative style and probable changes in the communication roles of the stylistic functions.

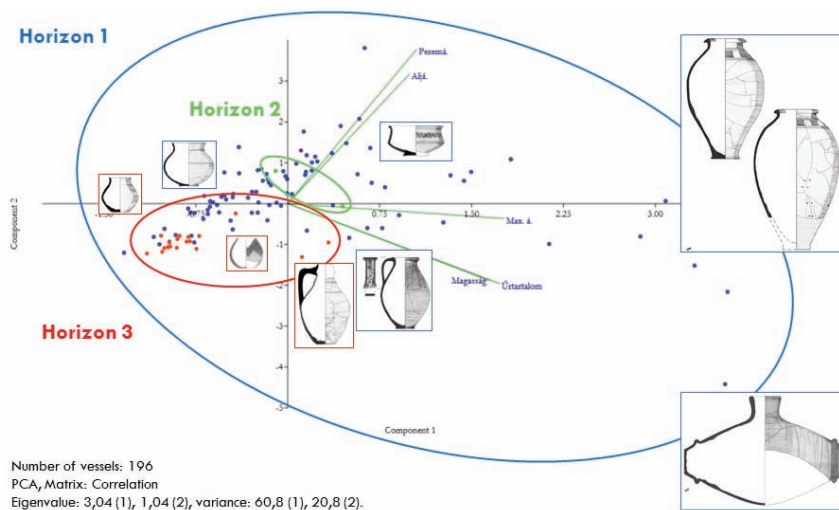


Fig. 22. Rákóczifalva-Bagi-földek. Changes in capacity, shape and decorative style of the fine pottery.

Results of the regional research

Although the environmental-archaeological analyses focus predominantly on other chronological periods, still, some certain consequences can be drawn regarding the discussed topic. According to preliminary evaluations of rescue excavations and bore samples, the forest-steppe character of the Great Hungarian Plain finally changed to anthropogenic grass steppe in the Roman time. The original forest zones were replaced by secondary, dispersed, sparse parklands. The size of the agricultural territory significantly increased compared to the prehistorical period. The human habitation, agricultural activity and deforestation altogether led to intensifying erosion and destruction of the soil. The dynamics of this process in the Roman time is yet unclear. The fact is that the sand lands of the Danube–Tisza Interfluvium in the late Sarmatian period and later were subject to intensive sand movements. The reasons for this process are not known yet. The artificially opened vegetation remained on the Great Hungarian Plain after the Roman time, and the environment did not recover. However, the pollen samples unambiguously reflect a general decline of the human habitation and shrinkage of the agricultural activity.¹⁰

This environment corresponds to the climatic reconstructions. Based on the palaeoclimate graphs, valid for the Carpathian Basin, the average mean temperature and the levels of precipitation changed excessively in different directions during the 4th–6th centuries. Between the warm and wet 4th, and the cold and wet 6th century we can observe a shorter drier period in the 5th century with gradually decreasing mean temperature. Contrary to the earlier scholarly views, the specifics of the 5th–6th-century habitation system cannot be explained by the dry climate. These climatic changes did influence the settlement, which can be supported by the settlement geography of the Middle Tisza Region.¹¹

The small number of the Gepidic period settlements, in opposition to the vast quantity of the Sarmatian-period sites, is a commonplace in the Hungarian scholarly literature (*Fig. 23*). Sedimentological research and evaluation of the distance from the waters in case of the Sarmatian and Gepidic sites revealed that in both periods the inhabitants in general preferred similar reliefs. The main differences were observable in the flood areas. The Sarmatian sites emerged more often in the younger, lower situated floodplains of the late Holocene, and somewhat

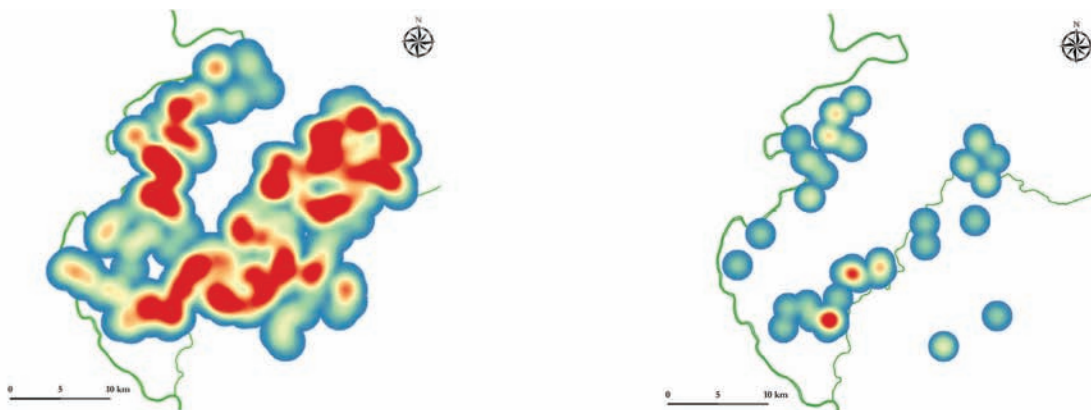


Fig. 23. Heat map of registered Sarmatian- (left) and Gepidic-period (right) settlements in the Tiszazug.

10 KUSTÁR – SÜMEGI 2012; PERSAITS et al. 2014.

11 SÜMEGI et al. 2009; TÖRÖCSIK et al. 2015, 218–237.

less frequently appeared on the higher flood areas of the early Holocene. Archaeological sites from the Gepidic period preferred higher situated floodplains of the early Holocene, on the silty soils. The Gepidic period reflects depletion in the landscape use. For some particular soil types, we have more chances to find a Gepidic archaeological site if there was also a Sarmatian settlement. Gepidic-time settlements evolved with greater chances on Sarmatian sites that were situated closer to the water. The chances were even higher if the site was located on the riverside of the Tisza or Körös River. The lack of Gepidic-time archaeological sites on the right bank of the Tisza, as well as the significantly decreasing number of the sites toward the inner territory of the Trans-Tisza Region (Tiszántúl), cannot be satisfactorily explained by the geological or hydrological situation.

Results of the topographical research are as follows:

- The concentrations of the archaeological sites in the vicinity of Rákóczifalva and Szolnok show a more-or-less similar situation. Gepidic sites regularly appear around the late Sarmatian–Hunnic ones, within a couple of hundred meters distance (*Fig. 24*). Such settlement-clusters that were occupied in the 5th but abandoned in the 6th century turn up only on the right side of the Tisza. The archaeological sites of the 6th-century Gepidic settlement system emerged in the Roman cultural landscape, adapting to it but only on one side of the river.
- The continuity at the 4th–6th-century site complex excavated in the vicinity of Tiszabura-Pusztataskony shows particular differences compared to Rákóczifalva. In case of the last one, the late Sarmatian–Hunnic layers are superimposed by Gepidic features. On the contrary, at Tiszabura the Gepidic-period habitation appeared beside a closed late Sarmatian-period settlement, encircled by a ditch. The Gepidic site is located on shifting sand, while the late Sarmatian settlement in an early Holocene floodplain (*Fig. 25*). The habitation continued on a relief more suitable for the general needs of the Gepidic time. In the neighbourhood, the Gepidic-period sites are concentrated mainly on the left side of the Tisza and are less common on the inner point bars. The settlement network is less studied but might have been organised similarly to that around Szolnok. There are two Germanic-like sites known from the right side of the Tisza but both of them are situated north of the southern line of the Csörsz-dyke (Kisköre-Pap-tanya, Kisköre-Gát).
- Although the exact location of a group of burials from the Hunnic period in the vicinity of Jászberény (Jászberény-Szőlő-dűlő) is unknown, it is assumable based on archive data that it might have been located beside a long-lived Sarmatian cemetery. In any case, the Hunnic graves are situated within 2–3 km distance to the most important Sarmatian archaeological sites of the region (Jászberény-Alsómuszáj, Jászberény-Csege-lapos). These sites can be found on the southern side of the Zagyva River, on the edge of a loessial sandy plateau (*Fig. 26*). There are no known Germanic-period sites around Jászberény. It seems that the choice of the location for the 5th-century burials was in connection with the late Sarmatian settlement network and was embedded in that. The fairly emerging late Pleistocene relief situated close to the water was from all aspects suitable for the needs preferred by the population of the Gepidic period of the Tisza Region. The discontinuity of the settlement structure cannot be explained by objective geographical circumstances.

- The precise coordinates of the female burial with a pair of eagle-headed footwear buckle (chronology: D2/D3) at Jánoshida-Káposztás-dűlő are also unknown but the approximate location of the site can be identified. The field walking carried out on the territory produced no evidence for Gepidic-time habitation. There are two significant archaeological sites located within a 5 km distance from this one (Fig. 27): Alattyán-Tulát (male burial with a spear and a spatha, D1/D2) and Jászalsószentgyörgy-Borsa-halom (a unique barrow-grave cemetery, C3–D1/D2). The relief is quite different on the opposite sides of the Zagyva River. While the Sarmatian-time sites occur on both banks, the Hunnic-period site preferred an articulate location between meanders on loessial soils. The hydrological situation is fragmentarily reconstructable. Even in this state of research, the position of the Hunnic-period burial can be interpreted taking the Sarmatian-time habitation into consideration, showing the importance of a small region located by a fordable section of the river. There are no traces of habitation in this area in the 6th century, despite the seeming suitability of both sides of the Zagyva River.
- The site Czakó Mound near Törtel where a Hunnic cauldron was found in 1869 can be clearly identified. The scarce information about the Sarmatian-time sites around the Czakó Mound is available almost exclusively from field walking. There are no finds reflecting a possible Sarmatian-time elite. Based on negative field walking results, no Sarmatian-period predecessors can be assumed on the site. The importance of the site itself as an ancient artificial mound seems to have been significant, with a possible infrastructural meaning of the area. The appearance of the finds from the Hunnic period in the Danube-Tisza Interfluve and in the Tisza Region might seem occasional, but their position can be easily explained in the context of the late Roman habitation. The only contradictive example is the find spot of the Törtel cauldron.

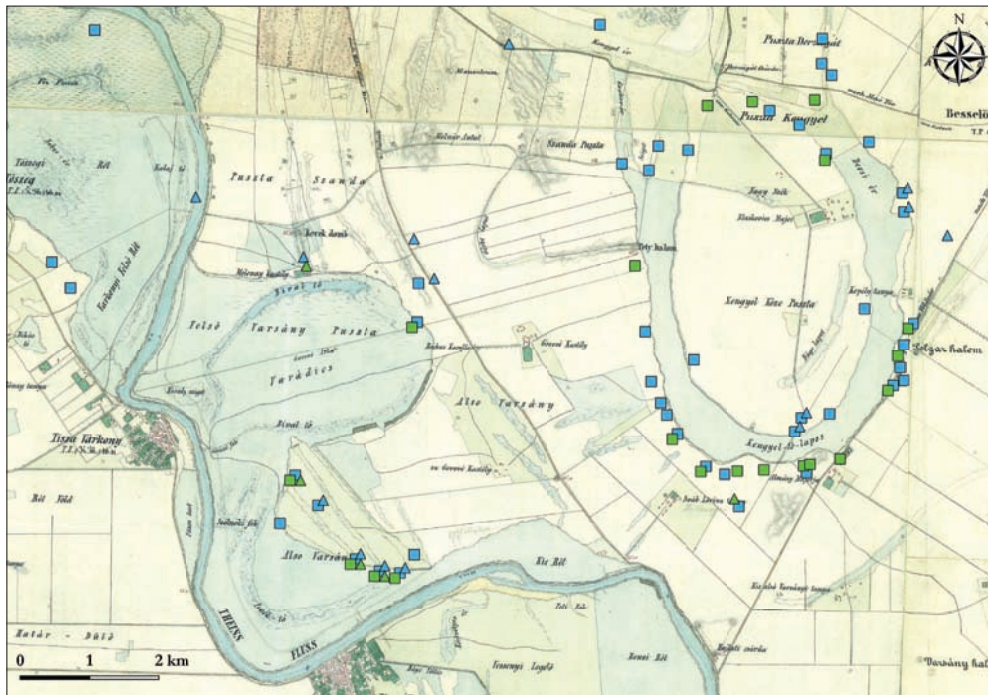


Fig. 24. Sarmatian- (blue) and Gepidic-period (green) sites in the vicinity of Rákóczifalva and Kengyel (square: settlements, triangle: cemeteries).



Fig. 25. Continuity in a settlement-cluster in the vicinity of Tiszabura-Pusztataskony. Sarmatian- (blue) and Gepidic-period (green) features and data from field survey; red dot: Hunnic-period single grave; red lines: excavation borders.

Late antique continuity in the Tisza Region

Three 5th–6th-century continuity models can be outlined in the Middle Tisza Region.

- On the left bank of the Tisza and in the Körös Region the settlement-clusters were partially continuous. The archaeological finds of the Hunnic period appear within such site (Rákóczifalva) or settlement-cluster (Tiszabura), which likewise present material of the Sarmatian and Gepidic periods. Despite the continuity of habitation, traces of sharp ruptures can be observed in the settlement network and the inner structure of the settlements. The transition from the Sarmatian to the Gepidic period seems to have been a gradual transformation. Its components, as well as the features of the continuity, could have differed from site to site.
- The Danube–Tisza Interfluvium area is more characterised by scattered burial sites dating to the D2/D3 up to D3 Horizons. These sites generally reflect smaller social communities. Their cultural texture is heterogeneous. Their common attribute is that none of them can be associated with the rich elite burials of the Hunnic period. In the Jászság the sites of the Hunnic period are located in vicinities of river crossings. The Jánoshida site is positioned beside an obvious late Sarmatian elite site (Jászsószyentgyörgy). It seems that between the end of the 5th century and the Avar period these territories became depopulated. Most probably by this time, the late Roman settlement network that integrated the Hunnic-time sites ultimately collapsed.

- There are no known Hunnic-period sites from the inner areas of the Trans-Tisza Region (Tiszántúl), however, Gepidic sites sporadically appear. The scientific evaluation of this region is hardly possible, we cannot even decide whether the small number of Gepidic sites is just the result of the lack of research or not.

The absence of the archaeological sites in the Danube-Tisza Interfluve and the inner areas of the Trans-Tisza Region cannot be fully explained by environmental changes. On the basis of current knowledge, the 5th-century habitation shows a fragmented, mosaic pattern. The depopulation of the landscape must have been a relatively long process ending in the last third or quarter of the 5th and the turn of the 6th century. The concentration of settlement-clusters of the 6th century in the Tisza Region may have been interpreted as consequences of systematic human decisions, being at the same time a result of the anthropogenic reactions to the environmental changes.

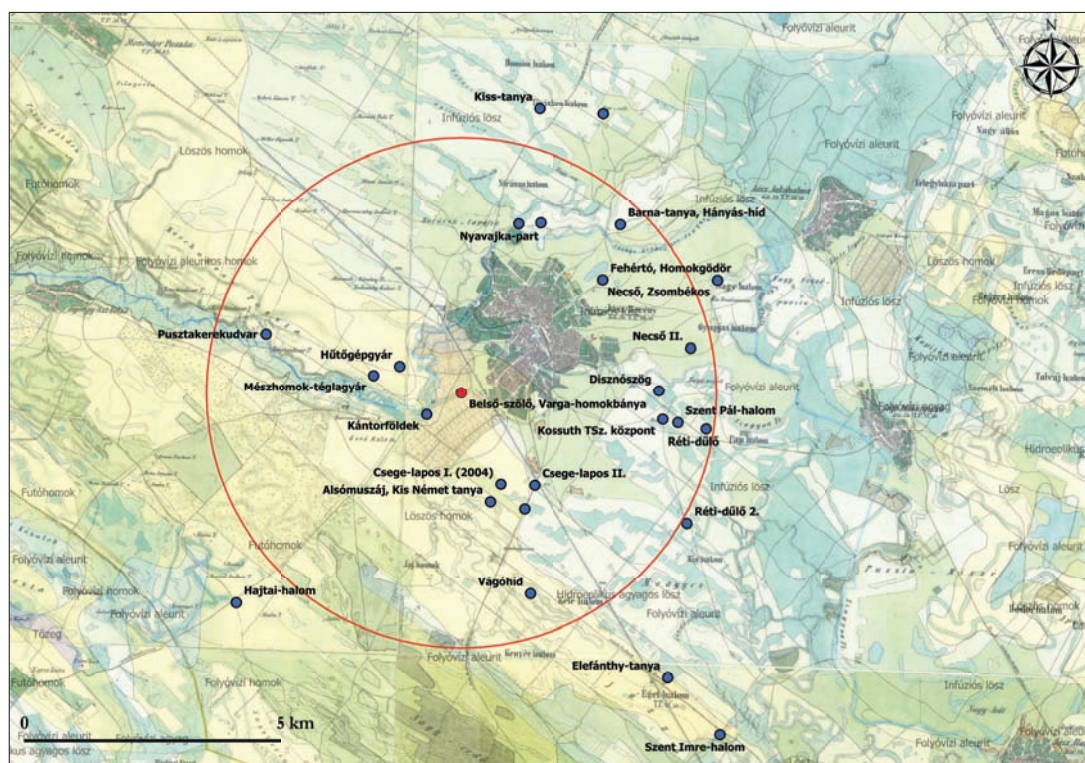


Fig. 26. Micro-regional survey in the vicinity of Jászberény. Red dot: the assumed location of the Hunnic-period site Jászberény-Szőlő-dűlő, Varga-föld.

Based on results of the environmental archaeology and on the dense settlement network, the great majority of the hinterland was partitioned in the Roman time. The Tisza Region most probably did not become completely desolated in the Hunnic period. Based on Anglo-Saxon models the explanation for the continuity of habitation between Sarmatian- and Gepidic-period sites on the territory of the first model of continuity may be that the population of the Gepidic period settled on the Roman time field system. In cases of smaller hamlets evolved around earlier larger rural settlements, we may deduce processes that are similar to what is reconstructed in the case of the West-European small communities settled within the limits of large Roman latifundia.¹²

12 UNWIN 1988; OOSTHUIZEN 2010; WILLIAMSON 2010.

Likewise based on Anglo-Saxon models, the system of settlements in the Gepidic time can basically be interpreted as a colonisation model.¹³ This brings to the forefront the proximity of natural and human resources but does not necessarily require the quick emergence of larger central places. According to these models the new communities exploited not only the geographical peculiarities but also the assets of the Roman-time networks and cultural landscape. For these prime-choice settlement-territories, the continuity between the Roman period and 5th–6th centuries seems to be more natural than for the areas of secondary habitation. The Gepidic-period sites that reflect a higher number of inhabitants might have appeared in connection with the consolidation of the settlement network. There is no reason to directly interpret them as central places with strategic (military) significance, and neither can we justify existence of such features in the Middle Tisza Region. The distorted, uneven appearance of the Gepidic-period settlement network may be the consequence of the very weak level of secondary colonisation on the Great Hungarian Plain, since the overall changes in the Avar period shifted the process in a different direction.

The archaeological sites of the Middle Tisza Region show that the scale of both depopulation and settlement continuity is relative. In some areas, the Roman-time population might have survived and taken part in the transitional changes; while other places were occupied by a new elite or new farming population. Aside from assuming the destruction of parts of earlier settlements, the transformation of their functions, the vanishing of archaeological sites and the appearance of new inhabitants in the Hunnic period, the impact of the Roman-time landscape and the partial continuity of the settlement-network are still present. Some transfer of technological know-how and the handicraft traditions can be traced. This, despite the high level of changes in the material culture and society also proves the partial continuity of the population.

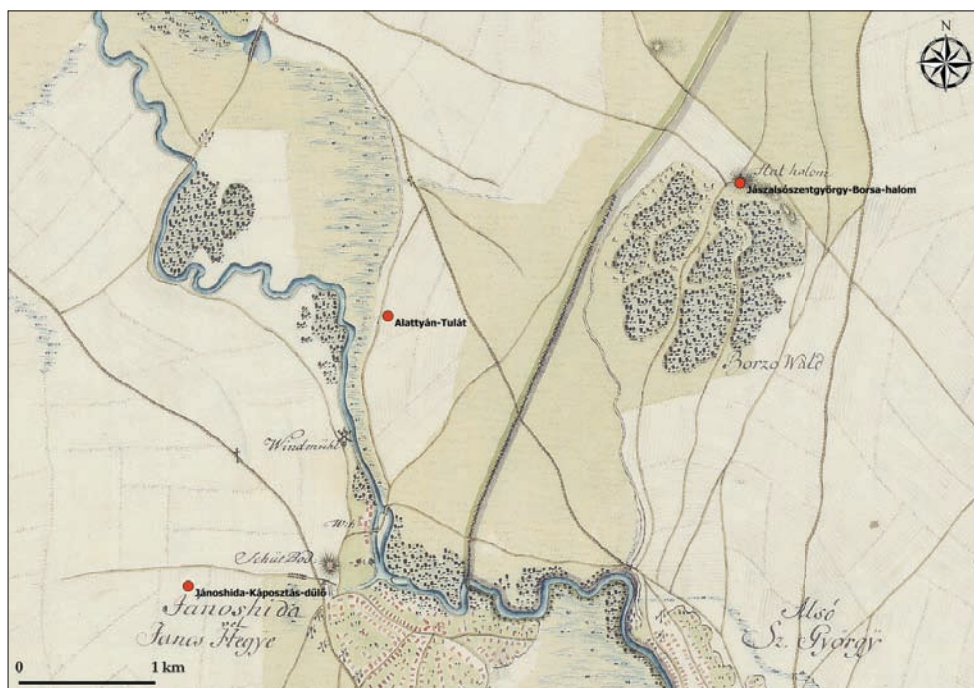


Fig. 27. Micro-regional survey in the vicinity of Jánoshida. Chronology of the highlighted sites: Jászalsószentgyörgy-Borsa-halom: C3–D1/D2, Alattyan-Tulát: D1/D2, Jánoshida-Káposztás-dűlő: D2/D3.

13 COWIE – BLACKMORE 2008; BROOKES 2010.

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