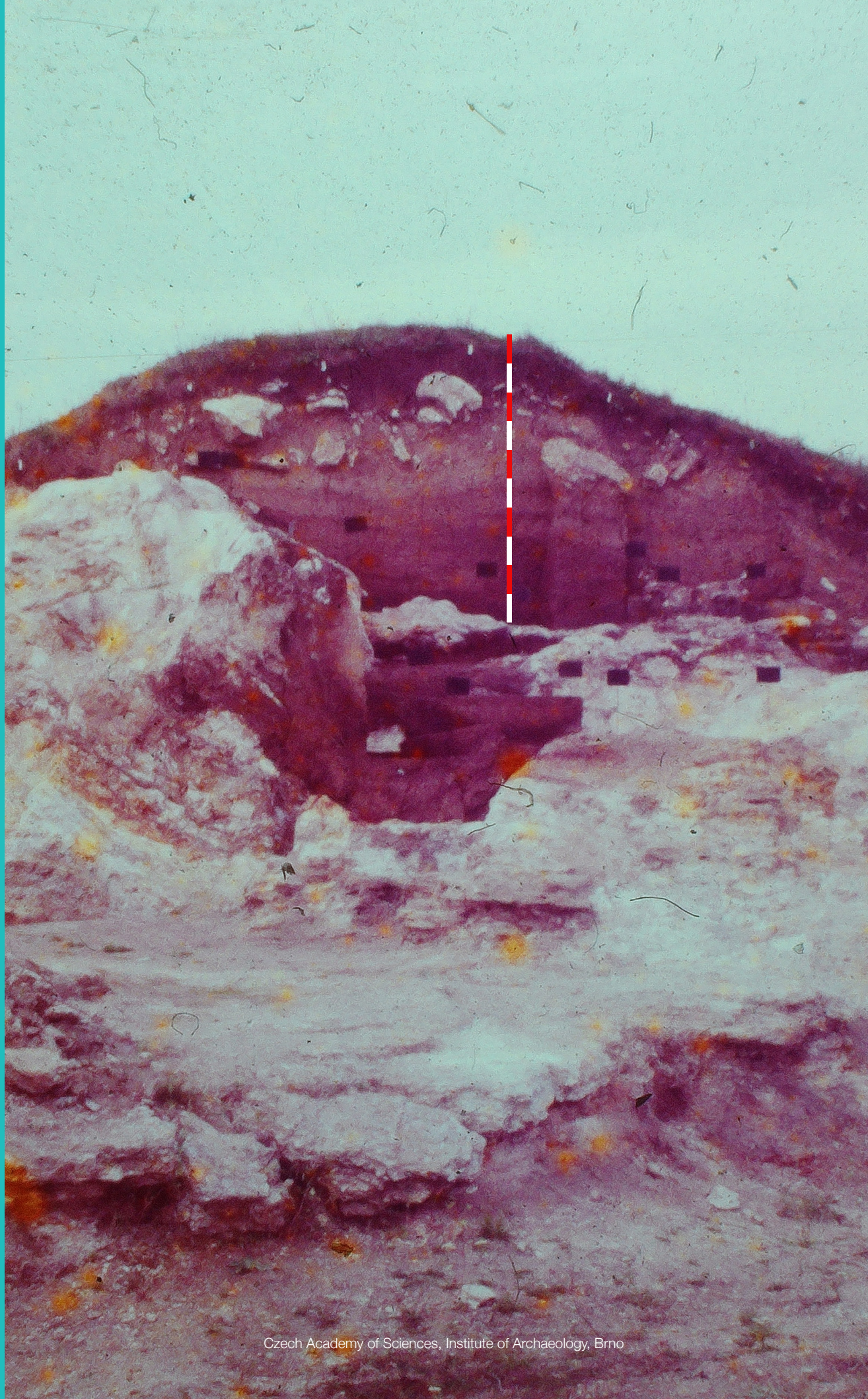


Solving Stone Age puzzles:
From artefacts and sites towards archaeological interpretations



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Adrián Nemergut – Martin Novák et al.

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*This monograph is dedicated
to Lubomíra Kaminská*

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01

Introduction.
Unlocking the doors... A guide through the landscape
of Stone Age puzzles

Martin Novák

This book is a bridge. A bridge between generations of scientists and a bridge between the past and the present, between fragments of seemingly forgotten times and advanced interpretations that connect these tiny fragments like a puzzle and bring them to life in our imagination. It is a bridge where the paths of Stone Age archaeology, Quaternary geology, paleoecology and many other related disciplines meet and intersect, forming an interdisciplinary collaborative network to understand our ancient history and the life of past cultures.

The book brings 18 chapters, which together form a unique mosaic of knowledge and interpretations that shed light on the Pleistocene and Holocene periods from an archaeological and natural sciences point of view. Each chapter of this book, whether case studies presenting information from new excavations, results of analytical studies, or research projects of broader relevance, covers diverse areas and topics related to interdisciplinary research on the Stone Age in Central Europe. The chapters show how a wide range of archaeological sources can be interpreted in different ways and how they can be used for further research. They move from the studies focusing on entire settlement areas to case studies about individual sites, while others try to understand the technological processes of the production of individual artefacts and art objects, study the issue of sources of raw materials for the production of lithic industry, or through faunal analysis, focus on paleoecological reconstructions and subsistence strategies of prehistoric people. In this way, the monograph gradually goes through different levels of archaeological research in terms of theme and focus.

The first study by Ivana Fridrichová-Sýkorová opens avenues for future investigations into the earliest European settlements. It deals with the relic of the Lower Paleolithic cultural landscape in the basin of the Hrádecký potok in northwestern Bohemia (Fig. 1.1: 1), where systematic

research has identified a complex of Acheulian sites which can contribute significantly to understanding the behaviour of our earliest ancestors and the settlement dynamics of Europe during the Paleolithic.

The study by Amira Adaileh approaches the topic of settlement archaeology from a slightly different perspective. It examines the interpretative potential of the archaeological sites in the specific landscape of the Nördlinger Ries in southern Germany (Fig. 1.1: 2) from the perspective of Paleolithic settlement dynamics. The study discusses a different settlement pattern during the individual Paleolithic periods, considering a number of factors, including changes in land use, site preservation, and research biases. At the same time, the high number of Paleolithic sites here contrasts with the limited information and lack of specific chronological classification about them (most of which come from surface collections), thus raising questions about the true picture of the settlement. The study underlines the Nördlinger Ries's untapped potential for future Paleolithic research. It emphasises the need for a comprehensive review of the existing data to understand better the area's prehistoric occupation and its connections to the surrounding regions.

A similar problem considering the settlement areas' interpretation is also addressed in the following study by Katarína Kapustka (et al.). The study draws attention to the (marginal) territory of eastern Bohemia, which has been on the periphery of researchers' interest and poses challenges to understanding hunter-gatherer lifeways based on fragmented archaeological evidence. The chapter reviews Upper Paleolithic archaeological sites in the surroundings of the Rivers Loučná and Tichá Orlice (Fig. 1.1: 3) discovered through surface surveys, and taking into account the small size of these collections and the limited diagnostic value of the finds, discusses the potential strategies for refining their chronological frameworks. To fully understand seasonality and settlement/mobility patterns, the authors emphasise the need for further research, including structured surveys and identification of stratified findings contexts.

The chronological contextualisation of the archaeological record, as one of the key tasks of Paleolithic research, is also addressed in a study by an Austrian team led by Otto Cichocki. Alongside radiometric dating and comparative analyses of material culture, they employ a method of dendrochronology to establish contemporaneity between two Mid-Upper Paleolithic sites in the Austrian Middle Danube region: Gösing-Setzergraben and Krems-Wachtberg (Fig. 1.1: 4). By analysing floating tree ring sequences from charcoal samples, they synchronised the dendrochronological data between these sites, and demonstrated a simultaneous occupation of both sites during the Pavlovian, providing a more precise understanding of inter-site relationships and regional mobility patterns. Using dendrochronological synchronisation introduces a new approach to determining contemporaneity in Paleolithic archaeology, offering more complex insights into the raw material economies and potential interdependent functions of Upper Paleolithic sites.

The study by Paweł Valde-Nowak and his team explores the archaeological potential of caves in the Polish Tatras through a case study of the Oblazkowa Cave (Fig. 1.1: 5) and considers the reasons for the absence of significant prehistoric remains at the site (removal of sediments associated with tourism development, inaccessibility of caves due to ice cover during the Pleistocene). Given the occasional finds of Stone Age artefacts and evidence of *Neanderthal* and early *Homo sapiens* activity at the foot of the Tatra Mountains, it highlights the potential of the Tatra area for uncovering prehistoric settlements. The ongoing research in the Carpathian region and the increasing number of Stone Age sites in the Alps suggests that further exploration in the Tatras could reveal significant evidence of early human occupation.

The following two studies present new Paleolithic sites from important settlement areas in northern Hungary and western Slovakia. In the context of lacking suitable or distinctive archaeological data, they discuss their informative value and how they could still contribute to broader archaeological interpretations.

A study by Mónika Gutay and Zsolt Mester presents a new Middle Paleolithic assemblage from the site of Gyöngyöstarján in Northern Hungary (Fig. 1.1: 6). The site was discovered during a long-term systematic survey in the region of the Mátra Mountains, which revealed a large number of Paleolithic surface collections and challenged the previous assumption that this region was uninhabited during the Upper and Middle Paleolithic. Though only broken and unfinished tools were identified in the collection, they documented the first use of local limnosilicite by Middle Paleolithic groups for bifacial tool production. Diagnostic elements like bifacially backed knives and leaf points link the industry to the Micoquian or Keilmessergruppe. However, as the study points out, further field surveys and analysis are needed to fully understand this industry and its regional characteristics.

A collective study led by Ondrej Žaár focuses on a settlement area around Moravany nad Váhom in western Slovakia, known for its rich Upper Paleolithic heritage. The rescue excavation in Banka helped discover a new site of Štepnica 2 (Fig. 1.1: 7), where the unearthed lithic industry lacks a typical “fossile directeur” for precise cultural classification. The study shows how, for the site’s chrono-cultural interpretation, it is possible to use indirect confirmation according to the presence of other types of artefacts, in this case, bifacial thinning flakes documenting the presence of bifacial artefacts (leaf points) at the site. Based on this, the site could be associated with the Szeletian, which also corresponds with the radiocarbon date, closely matching those from the nearby Szeletian site of Moravany nad Váhom-Dlhá. Authors also suggest perspectives of further research, e.g. in geological-paleontological analyses of loess profile samples that could shed light on the changing climatic conditions in the region and contribute to a broader understanding of the area’s archaeological and geological context.

In the following chapter, Peter Škrdla and his team return to the Early Late Upper Paleolithic site of Mohelno-Plevovce (Fig. 1.1: 8), located in a deeply incised river valley in the Bohemian-Moravian Highland, which provides rare insight into the sparse human settlement of Central Europe during the Last Glacial Maximum. Recent seasons of long-term and ongoing excavation have already uncovered a fourth stone structure, interpreted as a floor pavement of a possible dwelling. The structure has yielded a specific assemblage of lithic artefacts, corresponding to other structures in terms of the raw-material preferences or techno-typological spectrum, including characteristic microlithic implements. Further research will clarify the relationships between the individual structures. This will be important for a detailed study of the spatial structure of the site and for testing hypotheses about their contemporaneity.

The study by Ondřej Mlejnek, Petr Gadas, and Jaroslav Peška summarises and reviews the findings of the lithic artefacts excavated from the prehistoric site of Hradisko u Kroměříže in central Moravia (Fig. 1.1: 9). Emphasising the critical role of context over the artefacts themselves, the study faced challenges in the determination of the artefacts due to the passage of over seventy years since the excavation (led by Václav Spurný in 1949–1956). Despite these difficulties, the authors attempt, based on the typology and raw material analysis, to categorise the lithic industry into different periods, spanning the Early Upper Paleolithic, Neolithic, and Eneolithic Periods and the Bronze Age. They emphasise the site’s long history of occupation and its connections to broader prehistoric cultural processes and draw particular attention to finds of Early Upper Paleolithic artefacts, suggesting potential Paleolithic settlement or reuse by the site’s inhabitants in later prehistoric periods.

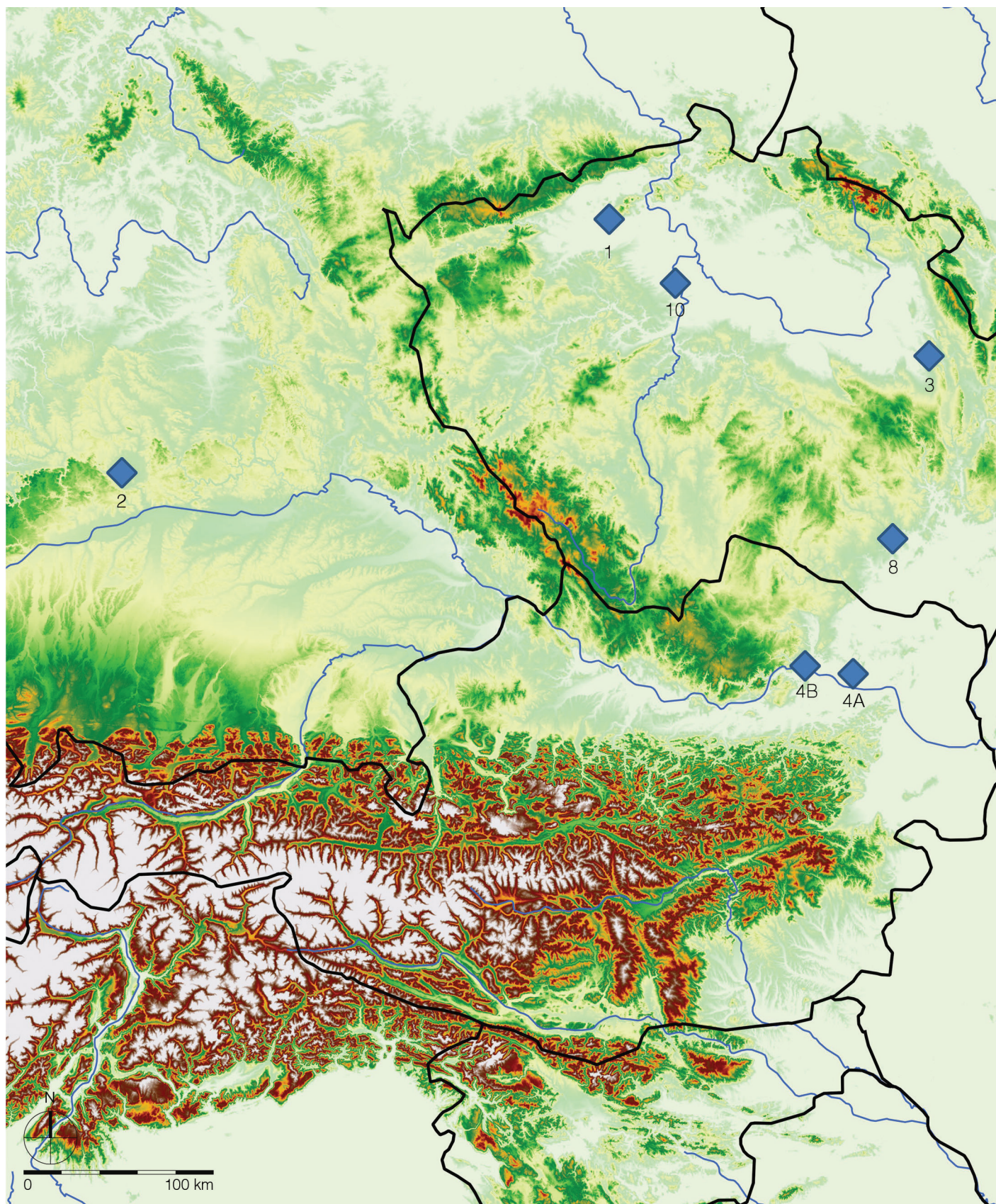
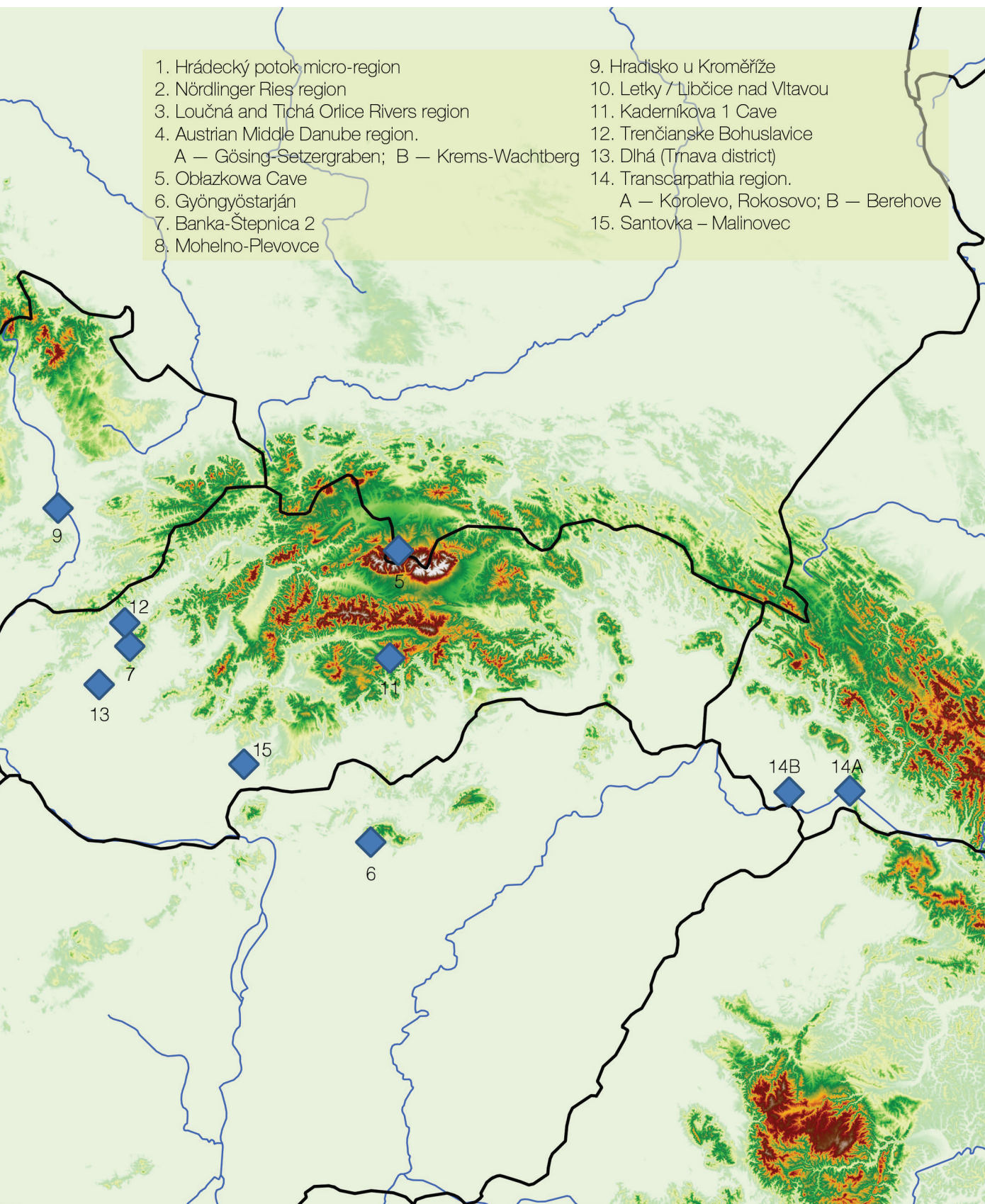


Fig. 1.1. A map of the sites mentioned in the individual chapters. Graphic by O. Herčík.



The collective study by Peter Neruda, Jan Eigner, and Peter Šída moves its focus from settlement areas and sites to the individual artefacts and their significance to understand the variability and technological skills of archaic humans in the production of lithic artefacts. The chapter discusses the technological analysis of a unique Levallois core discovered in Letky/Libčice nad Vltavou in the Central Bohemian Region of the Czech Republic (Fig. 1.1: 10). It emphasises the importance of technological classification over typological classification to understand the complexity of lithic industries and acknowledges the inherent variability in stone artefacts due to factors such as knapper skill and raw material properties. It points to the challenges of distinguishing between different Paleolithic tool types and techniques, particularly within the Middle Paleolithic, where artefacts can deviate from standard forms, including the Levallois method. Considering this, the presented core is reclassified as part of the Levallois concept despite its atypical characteristics and the unsuitability of the raw material used.

In the following study, the team of authors, led by Bibiána Hromadová, also focuses on a detailed analysis of one artefact, a needle-shaped bone discovered unexpectedly in the site of Kaderníkova 1 Cave in Spiš-Gemer Karst in central Slovakia (Fig. 1.1: 11). Despite the lack of archaeological context, the authors attempt to make more general interpretations in terms of chronocultural distribution, origin, and function based on archaeological analogies and technological observations. A rare point was found in a cave with no signs of human occupation, which could suggest its accidental deposition, possibly during a hunt or by a wounded animal seeking refuge. Preliminary typological analysis and comparisons with Polish Mesolithic and Late Paleolithic sites suggest a similar date for the artefact, which provides valuable insights into the region's prehistory. However, further analysis, including direct dating, may shed more light on its origin and purpose.

A chapter by Alena Šefčáková and her colleagues deals with a similar topic as in the study of Petr Neruda et al., a reclassification of findings from older excavations. The chapter presents a rare example of early human art repurposing natural elements. It re-examines a previously classified eolith from the well-known Gravettian site of Trenčianske Bohuslavice in western Slovakia (Fig. 1.1: 12) and argues for its reclassification as a Gravettian female figurine. The authors delve into the broader context of eoliths, natural stone formations resembling human or animal figures, and challenge the traditional scepticism associated with their identification as prehistoric human-made artefacts. Macroscopic, microscopic, and spectroscopic analyses confirm that the presented calcareous nodule from the site of Trenčianske Bohuslavice has been intentionally modified to represent a female figure, using its natural shape in a manner consistent with other Gravettian female statuettes. This discovery is, therefore, significant for understanding Gravettian artistic practices and the challenges of identifying early human-modified objects.

An anthropomorphic statuette and its interpretation in a context of broader geographical and cultural interactions is also the subject of a study by Zdeněk Farkaš. The study presents the results of rescue archaeological research at the site of Dlhá (Trnava district) in western Slovakia (Fig. 1.1: 13), where two archaeological features containing ceramic material and fragments of anthropomorphic statuette were unearthed. The findings, classified into the Ib phase of the Moravian painted pottery culture, point to the connections between the regions of Bratislava Gate and Little Carpathians with those of Lower Austria and South Moravia during the development of the Lengyel culture.

A different perspective on the interpretation of archaeological data, through the analysis of lithic raw materials, is offered by two chapters geographically focusing on the areas of Transcarpathia and Carpathian Basin.

The chapter by Yuri E. Demidenko and Béla Rácz introduces a novel approach to the analysis of lithic raw material sources and their exploitation by Paleolithic human groups in Transcarpathia, Ukraine (Fig. 1.1: 14). The authors review traditional regional studies focused on the composition of raw materials within Paleolithic assemblages with limited investigation into their source areas. Based on the results of the new systematic petrographic classification of a number of raw material types known from Transcarpathia, which leads to more understanding of the raw material types' primary and/or secondary origin sources, they examine their role in supplying different human groups throughout the Paleolithic periods. The research challenges previous assumptions about the importance of strictly localised raw material regions, suggesting rather a broader significance of widely dispersed sedimentary regions across almost all Transcarpathian areas and sites.

The following chapter by Katalin Biró addresses the issue of raw material provenance analysis as an effective means of identifying the geological origin of lithic artefacts in archaeological contexts. In this case, long-distance and extra-long-distance high-quality lithic raw materials pose significant challenges due to their distant transport and potential interaction with other macroscopically similar raw materials. The study focuses on the complexities encountered in the Carpathian Basin when analysing lithic assemblages, emphasising the importance of non-destructive, non-invasive methods and the role of international collaboration in understanding the movement and exchange of high-quality lithic raw materials over large geographical areas. It also highlights the need for comprehensive databases, careful selection of analytical methods, and the importance of stable archaeological contexts.

The final three chapters of the monograph are more of a natural science nature. They are devoted to paleoecological reconstructions through analysing the Pleistocene fauna in an archaeological context.

A collective of authors, Martin Sabol, Csaba Tóth, and Martin Vlačiky, analyses Late Pleistocene mammal fossils from the Santovka – Malinovec travertine quarry in southern Slovakia (Fig. 1.1: 15), focusing on taxonomy, taphonomy, paleoecology, and stratigraphy. The mammalian fauna indicates a predominantly open landscape environment, though forest species are also represented, possibly brought to the site by predators or humans, whose activity is inferred from marks on bones and the discovery of Paleolithic artefacts. The site's paleoenvironmental significance is underlined by thermal mineral springs. They likely attracted a diverse array of wildlife and thus represented a significant factor in the accumulation of animal remains and the presence of prehistoric humans.

The study by Miriam Nývltová Fišáková investigates the paleoecology and migration patterns of animals from Central European Gravettian sites using geochemical methods, including strontium, carbon and nitrogen isotopic analyses. The study indicates that the Gravettian period in the Middle Danube region was characterised by abundant resources and supported diverse faunal populations living in a steppe to forest-steppe environment with low precipitation. The results of the presented research contradict previous hypotheses, suggesting that while mammoths showed some migratory behaviour, large herd animals like reindeer and horses did not migrate long distances but instead moved over a smaller distance of only a few kilometres. The author is therefore considering the hypothesis that Gravettian communities in the Middle Danube region may have practised reindeer herding, similar to practices observed in Siberia.

The monograph concludes with a study by Zdenka Nerudová, which summarises findings of Pleistocene megafauna, the woolly mammoth and the woolly rhinoceros, dated to the end of the Last Glacial

Maximum primarily from the Epigravettian and Magdalenian archaeological contexts. The presence of these species in such contexts indicates they were not merely randomly scavenged remains but rather part of the prolonged human subsistence strategy. This challenges the notion of these megafauna's habitats, as they were also found in cave environments unsuitable for their living. It raises questions about the Magdalenians' potential reliance on live observations for realistic depictions of these animals in art. The study also contrasts the hunting preferences of the Magdalenian with the Epigravettian (reindeer and horses vs. mammoths), suggesting the hypothesis of distinct subsistence strategies without mutual interference. In connection with the topic of the entire monograph, the author underscores the principle that "the absence of evidence does not equate to evidence of absence" and highlights the complexities of archaeological interpretation in understanding past populations and their interactions with megafauna.

The unifying element of the presented diverse collection of contributions is the effort to show how different researchers, using different approaches and methods in their work, approach the interpretation of research data. It is an attempt to show what can be deduced from the investigation of a wide range of archaeological sources and how this information can contribute to broader prehistoric interpretations and a better understanding of the meaning of archaeological data. In this, the overlap of these studies is significant, as meaningful archaeological interpretations are essential for understanding our past and shaping public memory.

Each chapter emphasises that archaeological interpretation is not a simple task. It requires careful analysis and often combined methodological approaches. The source of the data, their context, and the methodology of their acquisition are key aspects that must be considered to interpret archaeological evidence correctly. These perspectives remind us of the importance of getting back to the basics of archaeology – to the artefacts and sites themselves because within them are hidden stories waiting to be revealed.

The book "Solving Stone Age puzzles: From artefacts and sites towards archaeological interpretations" is therefore not just a scientific monograph or an ordinary compendium of scientific studies. It is an invitation to journey through time, to discover and reinterpret our ancient past together. It is a dialogue between past and present, between archaeologists and artefacts, between science and the stories these ancient remains can tell us.

Welcome inside...

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