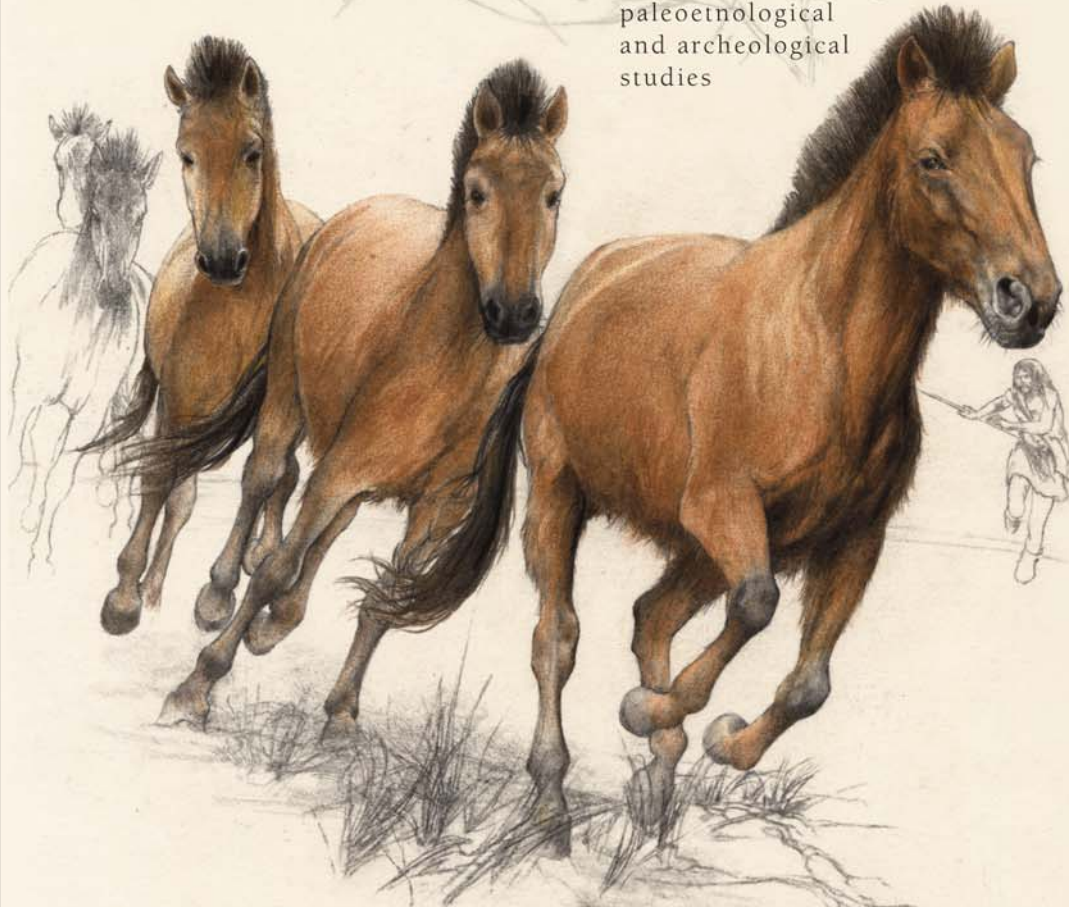


FORGOTTEN TIMES AND SPACES

New perspectives
in paleoanthropological,
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GROTTE DE LA VERPILLIÈRE II, GERMOLLES, FRANCE: PRELIMINARY INSIGHTS FROM A NEW MIDDLE PALEOLITHIC SITE IN SOUTHERN BURGUNDY

Jens Axel Frick and Harald Floss

Abstract

During the 2006 excavation at the *Grotte de la Verpillière* in Germolles, a team from the University of Tübingen under the direction of Prof. Harald Floss found a new archeological site. The site, now called *Grotte de la Verpillière II*, is situated around 50 m south of the well-known *Verpillière* cave (since then it has been called Verpillière I) in the same communal subdistrict of *Verpillière*. Between 2006 and 2008 mixed sediments and big limestone blocks from a roof collapse were removed to gain entrance to the cave. In 2009, intact layers with Middle Paleolithic artifacts were found and remain under excavation today. The intact find layers contain lithic artifacts, faunal elements and thousands of charcoal fragments that occur in discrete lenses. The lithic industry contains a high percentage of Levallois elements and the uppermost intact find layer (GH 3) yields a bifacial component that can be related to the Keilmessergruppen (assemblages with backed bifacial knives), Micoquien (sensu Bosinski), Charentian with Micoquian influence (sensu Farizy), Mousterian with Micoque option (sensu Richter) of central Europe or the Mousterian with bifacial tools (sensu Ruebens) in northern France and the Benelux. Here, we provide an overview of the first insights gained from ongoing excavations (here described insights from the campaigns 2006 to 2013) and analyses at this new Middle Paleolithic site in Eastern France.

Keywords

Neanderthals, Eastern France, Saône-et-Loire, Côte Chalonnaise, bifacial elements, Levallois

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Introduction

The Grotte de la Verpillière II (around N 46°53'56,4", E 4°44'31,2"; 212 m a.s.l) is located on the eastern slope of the massive of Montadiot, ten kilometers west of Chalon-sur-Saône, Saône-et-Loire (71), France (Figure 1). It is situated around 50 m south of the Grotte de la Verpillière cave site, which is well known for its Middle Paleolithic assemblages of bifacially backed knives (Desbrosse *et al.* 1976; Desbrosse and Texier 1973; Frick 2010), for the easternmost known Châtelperronian points (Dutkiewicz 2011; Floss 2003, 2005) and Aurignacian implements like carinated pieces and split-base points (Breuil 1911; Dutkiewicz 2011; Floss 2005).

The excavated intact layers of *Verpillière* II contain Middle Paleolithic lithic artifacts, faunal elements and more than 3.000 charcoal fragments, which occur in distinct lenses visible in 3D plots. The lithic industries contain a high percentage of Levallois elements, and nearly the complete *chaîne opératoire* of lithic reduction is represented. The uppermost intact layer (GH 3) also contains a bifacial component ($n = 10$, mostly asymmetric forms) that can be correlated to a western variation of the *Keilmessergruppen* (or Mousterian with Micoquian Option, younger Micoquian, Charentian with Micoquian Influence, Mousterian with bifacial tool, etc., see Farizy 1995; Frick 2010; Jöris 2003, 2006; Kozłowski in press; Richter 1997; Ruebens 2012, 2013). Similar lithic components have been recovered from the Middle Paleolithic layers at *Verpillière* I, both from recent excavations, older excavations and recently excavated backdirt (Floss 2005; Floss *et al.* 2013a, 2013b, 2014; Frick 2010).

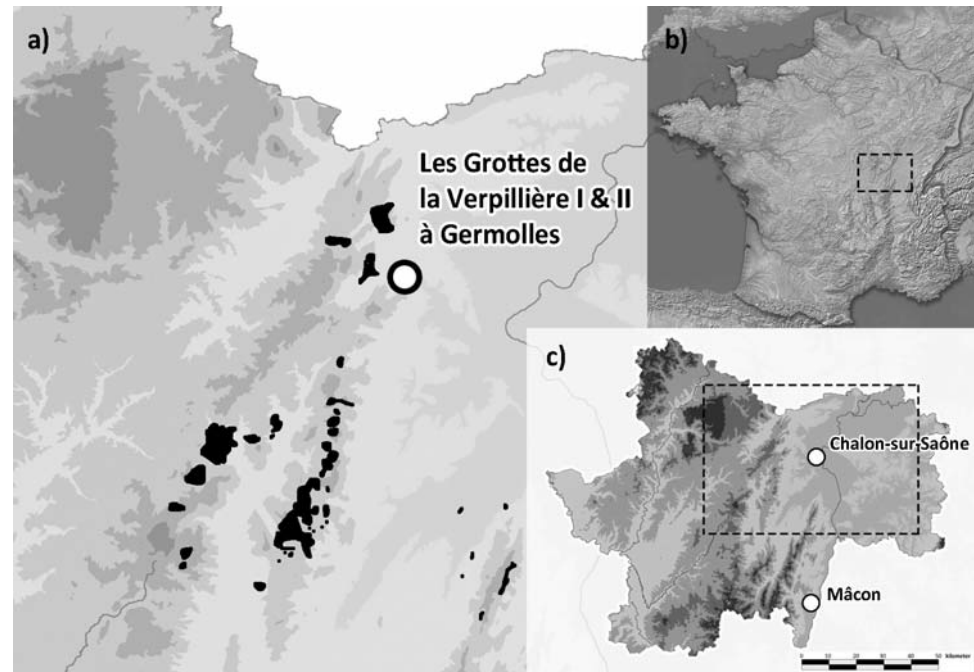


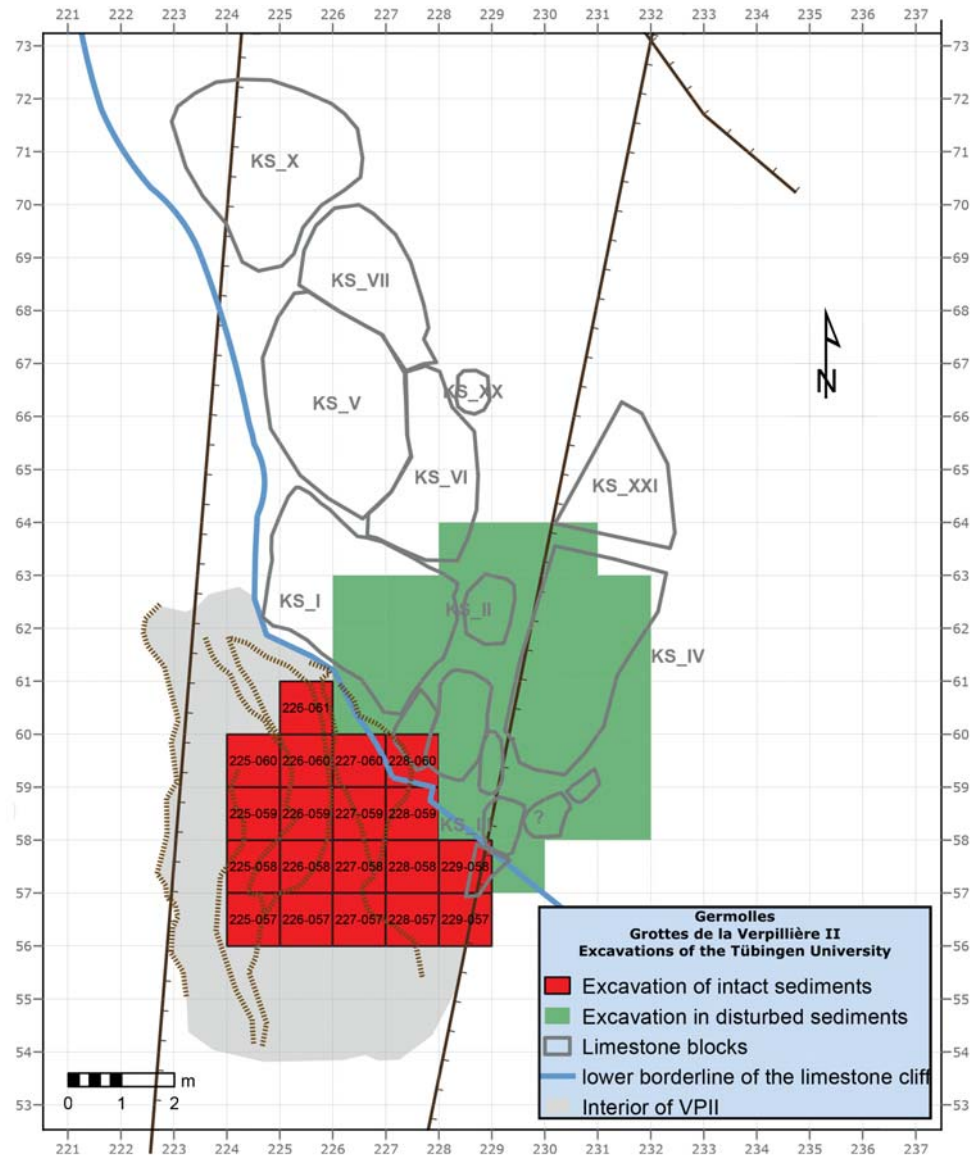
Figure 1: Location of the Grottes de la Verpillière I and II in Germolles, Saône-et-Loire, France. a) The distribution of flint from the argiles à silex in the Côte Chalonnaise (black spots, see Rué 2000) and the location of the Grottes de la Verpillière I & II in Germolles (circle), b) Topographic map of France (the dashed line indicates the Dept. Saône-et-Loire, SRTM-NASA map from 2003), c) Location (in dashed lines) of the Côte Chalonnaise in the Dept. Saône-et-Loire (see also in Frick *et al.* 2012, Figure 1).

Site history

In 2006, an amateur collector (J.-N. Blanchot) indicated to Harald Floss the presence of lithic artifacts on top of a large badger den. During the 2006 excavation campaign at the *Grotte de la Verpillière* (I), a test pit of 2 square meters was excavated by the team, revealing the new cave on September 25th. After half a day's work, it was possible to get a glimpse under the cave roof, which showed a tunnel several meters in length. The disturbed sediments of the test pit contained lithics from the Middle and Upper Paleolithic, faunal elements like horse (*Equus*, sp.), bison (*Bison*, sp.) and hyena (*Crocuta*, sp.) and modern materials (plastic and ceramics). The upper layers (GH 1 and 2, GH = geological horizon or layer, a distinctive sedimentological unit) showed evidence of bioturbation and contained small patches of cave sediments (Floss 2006).

In 2007, additional square meters (n = 13) were opened to gain access to the cave entrance. At a depth of 1 meter, a Roman belt buckle was found, as well as patches of cave sediment, and Paleolithic and Neolithic artifacts (Floss 2007). Work continued the following year, during which large limestone blocks (up to 4 meters in greatest dimension) deriving from a substantial roof collapse were excavated, scanned and measured in order to document the collapse history (Floss 2008). GPR surveys conducted in 2009 (P. Leach, John Milner Associates and Ch. Miller, Universität Tübingen) revealed the dimensions of the cave and confirmed that there were stratified sediments underlying the mixed deposits (Leach and Miller 2009). A *sondage* (test pit) of 4 square meters directly under the recent drip line of the cave revealed several layers of these intact sediments (GH 3 to 9), which were buried under the collapse of limestone blocks (Floss 2009). Micromorphological samples taken from these layers indicated moderate bioturbation in the upper parts, but contained no modern material, and also showed that the sediments were formed in place (Bons and Wißing 2009; Floss *et al.* 2010; Wißing 2012). Currently, we have discovered three intact layers containing Middle Paleolithic finds (GH 3, 4x and 4; Floss *et al.* 2014). From 2010 to 2013 (Floss 2010, 2011; Floss *et al.* 2012, 2013, 2014; Frick *et al.* 2011), excavation of 15 square meters of intact sediments was accomplished following the Tübingen excavation system (Frick and Hoyer 2009, 2011, 2012; Frick *et al.* 2013) established by J. Hahn in the 1970s to 1990s (e.c. Hahn 1988). The system combines single-find measurements, documentation of geological and archeological settings, topographical 3D modeling (layers, surfaces, profiles, limestone blocks, cave topography, etc.) and the recording of artifacts by size classes. An experimental archeological component, as for example controlled heating of flints from the *argiles à silex* (Frick *et al.* 2012), has aided in the interpretation of finds from the site. Additionally, during the 2013 field campaign we prepared the site for radiometric dating (ESR, OSL, TL, U-Th), the analysis of which is currently in progress (pers. comm. L. Zöller and M. Richard). From a stratigraphic and typological view, we suggest a late-OIS 5 (a, b or c) date (around 75–100 ky), which would correlate with dates from open-air sites (Champlost, Villeneuve or Vinneuf) in the *Sénonais* in northern Burgundy (Deloze *et al.* 1994; Gouédo 1999; Lhomme 2000), where layers with Micoquian elements are dated to the OIS 5. Also, a datation to the

Figure 2: GIS map of Verpillière II with the outlines of the collapsed limestone blocks and the excavated square meters (map by Ch. Th. Hoyer).



OIS 4 or early OIS 3 is possible, because many assemblages from the *Keilmessergruppen* date to these stages (Jöris 2003; Richter 1997).

Analysis of finds and data from the site are continuing under the auspices of three externally funded collaborative projects headed by Harald Floss, and several final academic theses are in progress (e.c. Jens A. Frick).

Site description and site formation

The cave is situated in the Upper Jurassic (Oxfordian) limestone formation of the massive of Montadiot. It formed during the erosion of the weaker components of

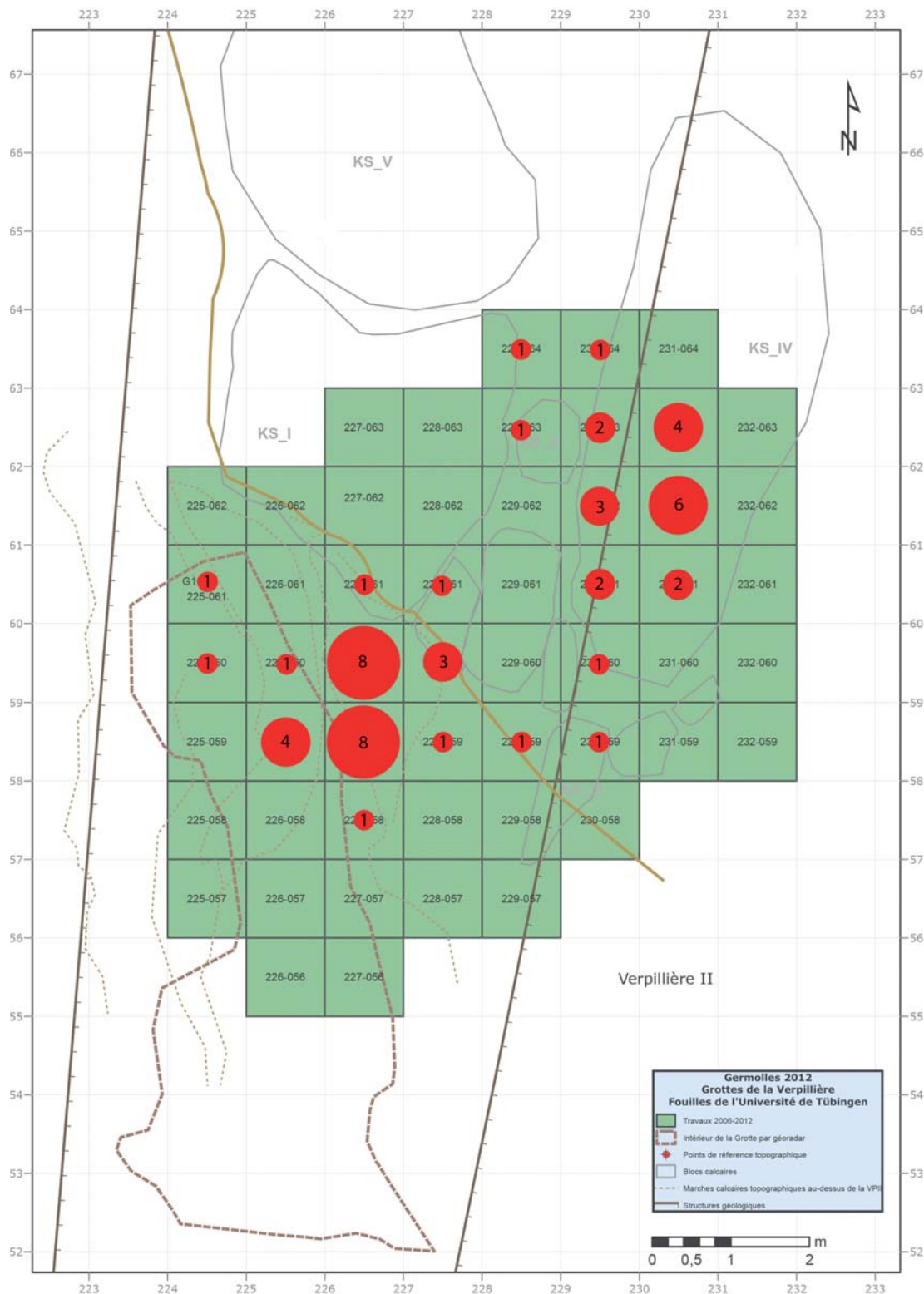


Figure 3: GIS map showing two concentrations of Upper Paleolithic lithic artifacts from GHs 1 and 2 (map by Ch. Th. Hoyer).

the formation, which likely corresponds in time with the extension of the Rhine-Saône-Rhône graben system (Bons and Wißing 2009). The intact layers are buried under a roof collapse of limestone blocks derived from an overhang of the rock face, and are situated at the foot of the cliff face and within the cave chamber (Figure 2). A first phase of roof collapse occurred before the formation of the intact find horizons, depositing large blocks beneath them. During the time of occupation, several small collapses from the cave walls occurred, breaking up the spatial distribution of the artifacts. A final, large collapse after the formation of the intact find horizons closed the cave almost completely.

The intact find layers yield sediments with a mix of fluvial and aeolian components. This suggests that the sediments were deposited in the cave with the erosion of the limestone, blown into the cave from outside, and altered and homogenized in the Upper Pleistocene (pers. comm. L. Zöllner, D. Richter, Ch. Miller and P. Bons). The sediment on top of and between the limestones from the roof collapse contains artifacts from the Middle Paleolithic to the Early Upper Paleolithic in secondary context (Floss *et al.* 2013a, 2013b, 2014; Götz 2013). The Middle

Figure 4: Table of the geological layers (GHs) and their content.

geological layer (GH)	status	yield	sediment	thickness
1	mixed	modern material, items from the middle ages, upper and middle paleolithic artifacts	cover soil with many limestones and less humus and throw-off of the badger den (maybe also from the top of the plateau)	around 0.1 m
2	mixed	modern material, items from the middle ages, Upper and Middle Paleolithic artifacts	soil with a big humus content, mostly bigger limestones, limestone blocks of the roof collapse, patches of cave sediments, badger den	0.2 m to 3 m
3	intact	Middle Paleolithic artifacts	mostly aerial soil with a small fluvial component, slightly altered through bio- and kryoturbation	0.4 m to 1 m
4x	intact	Middle Paleolithic artifacts	mostly aerial soil with a small fluvial component, no alteration visible	0.5 m to 0.1 m
4	intact	Middle Paleolithic artifacts	mostly aerial soil with a small fluvial component, no alteration visible	0.1 m to 0.4 m
5	intact	sterile	soil horizon under the contemporary entrance	0.05 m to 0.1 m
6	intact	sterile	weathering horizon of limestones inside the cave	0.05 m to 0.5 m
7	intact	sterile	weathered flowstone	around 0.1 m
8	intact	sterile	concreted limestone blocks	around 0.7 m
9	intact	possibly another find horizon	crusts and blocky deposits of limestone (only in a small depth sondage)	possibly 0.1 m

Paleolithic artifacts occur throughout these disturbed deposits associated with the roof collapse and the badger den, but the Upper Paleolithic artifacts are concentrated in two spots: under the contemporary cave entrance, and 3.5 meters to the north-east (Figure 3). It is unclear at present whether these Upper Paleolithic elements are invasive (deriving from the plateau above) or the remains of otherwise eroded interior deposits.

Currently, we can suppose that the horizontal extent of the site (the area of sediment buried under the collapse and in the cave) is around 100 m². Up to this point, excavation has concentrated on the contemporary entrance to the cave, where 15 m² have been excavated down to the surface of a concreted layer (with flow stones) of limestone blocks (GH 8). Ground Penetrating Radar (GPR) and structural geological analyses from 2009 suggest that this concreted layer is not the bedrock of the cave (Bons and Wißing 2009; Leach and Miller 2009), which was confirmed by a deep *sondage* in 2009 (Floss 2009). The stratigraphy of the cave contains nine sediment layers and the bedrock in all. Archeological material occurs in GHs 1, 2, 3, 4x and 4 (see Figure 4). The layers GH 3, 4x and 4 are intact Middle Paleolithic horizons. The underlying sediments have thus far proven sterile.

Spatial find distribution

In the mixed layers (GH 1 and 2), some general tendencies can be outlined. Firstly, the Upper Paleolithic finds are concentrated in two main areas (see Figure 3) (Floss *et al.* 2013a; Götz 2013). Secondly, the artifacts of a Middle Paleolithic nature are similar to those from the intact layers below (bifacial, Levallois and discoidal elements). Of the intact find layers (GH 3, 4x and 4), only GH 3 (n = 7,375 single finds) has been excavated and analyzed extensively enough for meaningful spatial analyses to be performed. So far, GH 4 has yielded only n = 145 single finds, but contains complete bones of large Pleistocene herbivores (such as mammoth and rhinoceros). GH 4x was only found over 5 square meters, and yielded only n = 52 single finds.

GH 3 shows several concentrations of single finds, for instance an accumulation of bones and teeth in the western area of the excavated zone, close to the cave wall. Bifacial elements were found in the southern and eastern areas of the excavated zone. The termination of find-bearing sediments against the blocks from the wall collapse to the east is very clear. One of the most striking features of the 3D plots of GH3 are the horizontally stratified lenses of charcoal (n = 3,095) (Figure 5). Further analyses, including spatial distribution and density estimations, workpiece arrangements (Uthmeier 2004; Weißmüller 1995), and lithic and faunal refitting, will confirm whether the finds in this geological horizon (GH) can be divided into discrete archeological horizons (AHs) or even occupation surfaces.

Lithic assemblages

The technological, morphological, functional, typological and provenience analyses of the items from the find layers discussed above are ongoing, but some preliminary

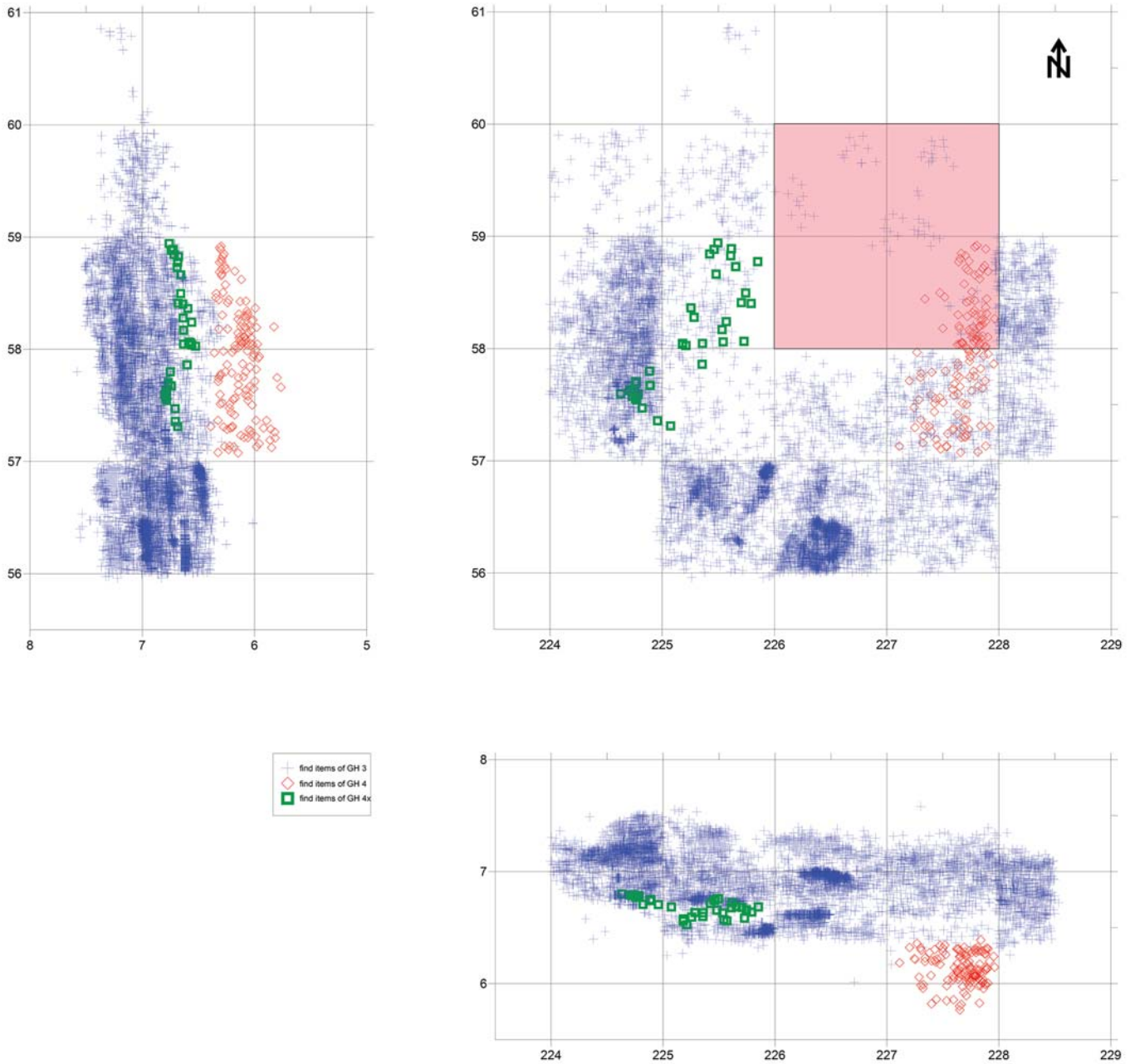
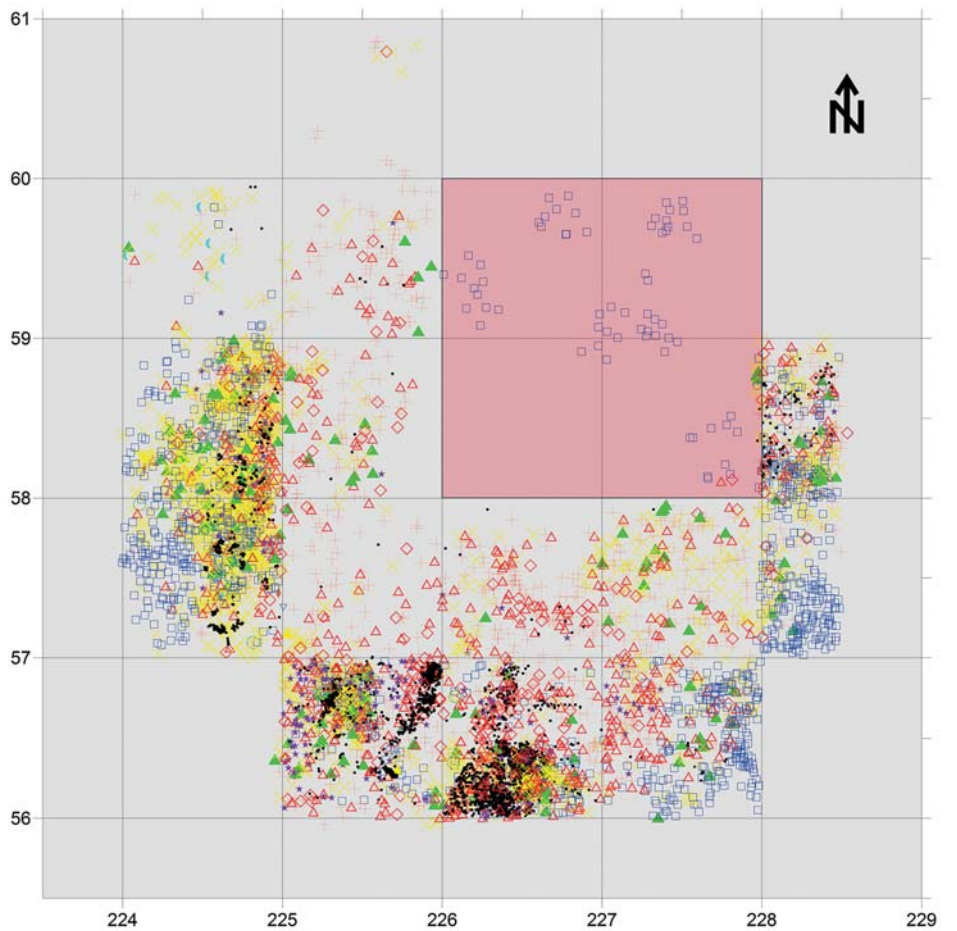
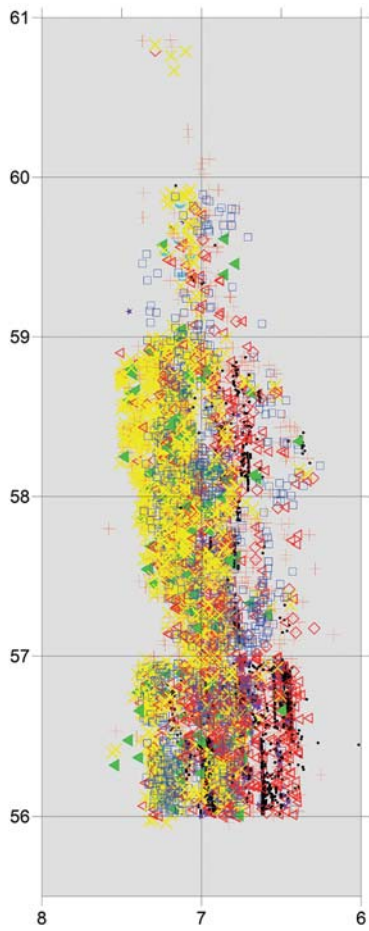
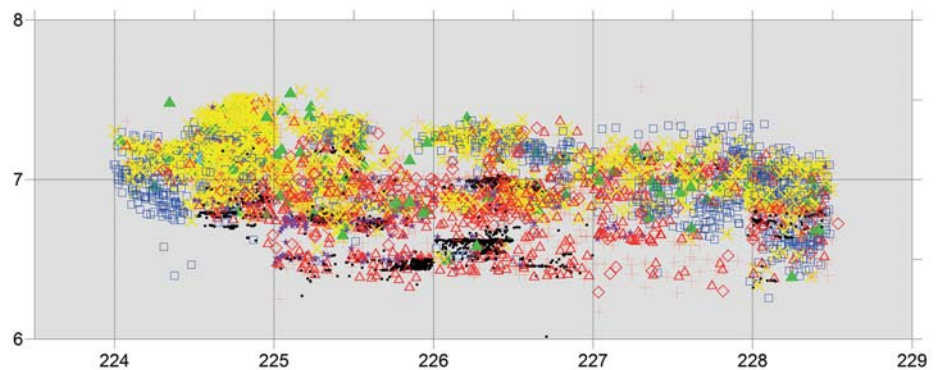


Figure 5: 3D projections of single plotted finds from the intact layers. a) projections of all finds from the layers in top view, view from west to east and from south to north; b) projections of all find items of the GH3 in top view, view from west to east and from south to north (the shaded red square indicates the sondage from 2009, 3D projections by Ch. Th. Hoyer, images by J. A. Frick).



- | | |
|---|------------------|
| + | 1 Blanks |
| ◇ | 2 Cores |
| △ | 3 Silex |
| × | 4 Bones |
| ▲ | 5 Teeth |
| ● | 6 Charcoal |
| ★ | 7 Colorants |
| □ | 8 Limestones |
| ◆ | 9 Floral remains |
| ○ | 10 Molluscs |
| ○ | 11 Ivory |
| ▽ | 12 Fossils |
| ▲ | 13 Antler |



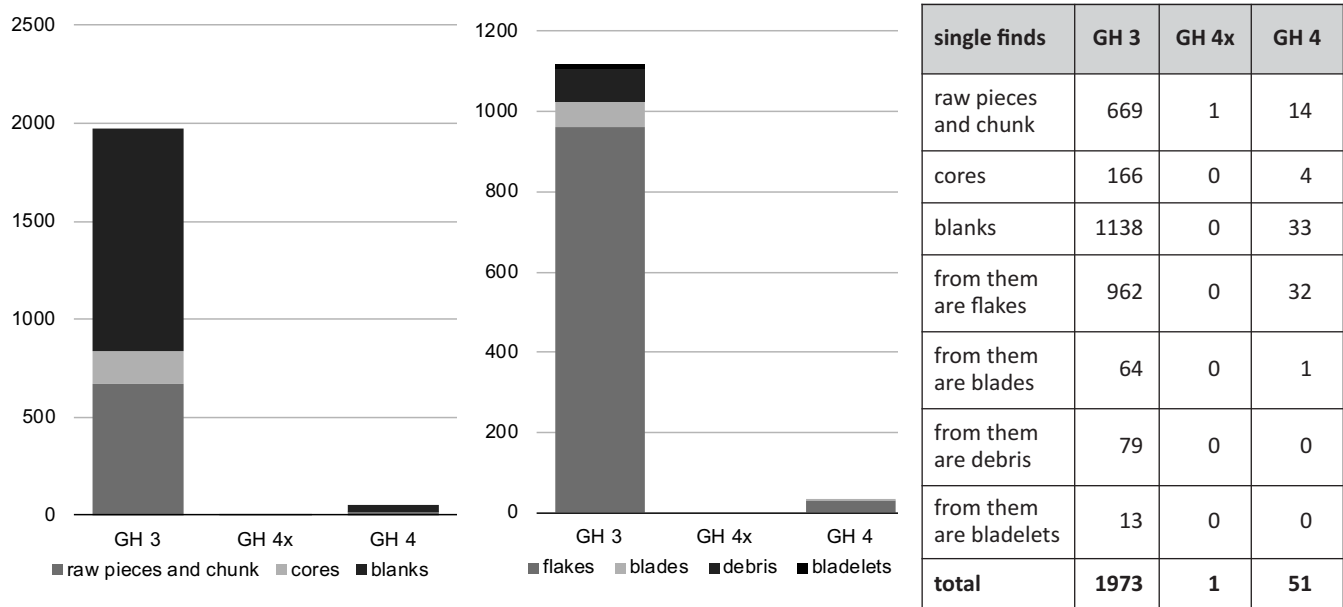


Figure 6: Table and diagram of all lithic items from GHs 3, 4x and 4.

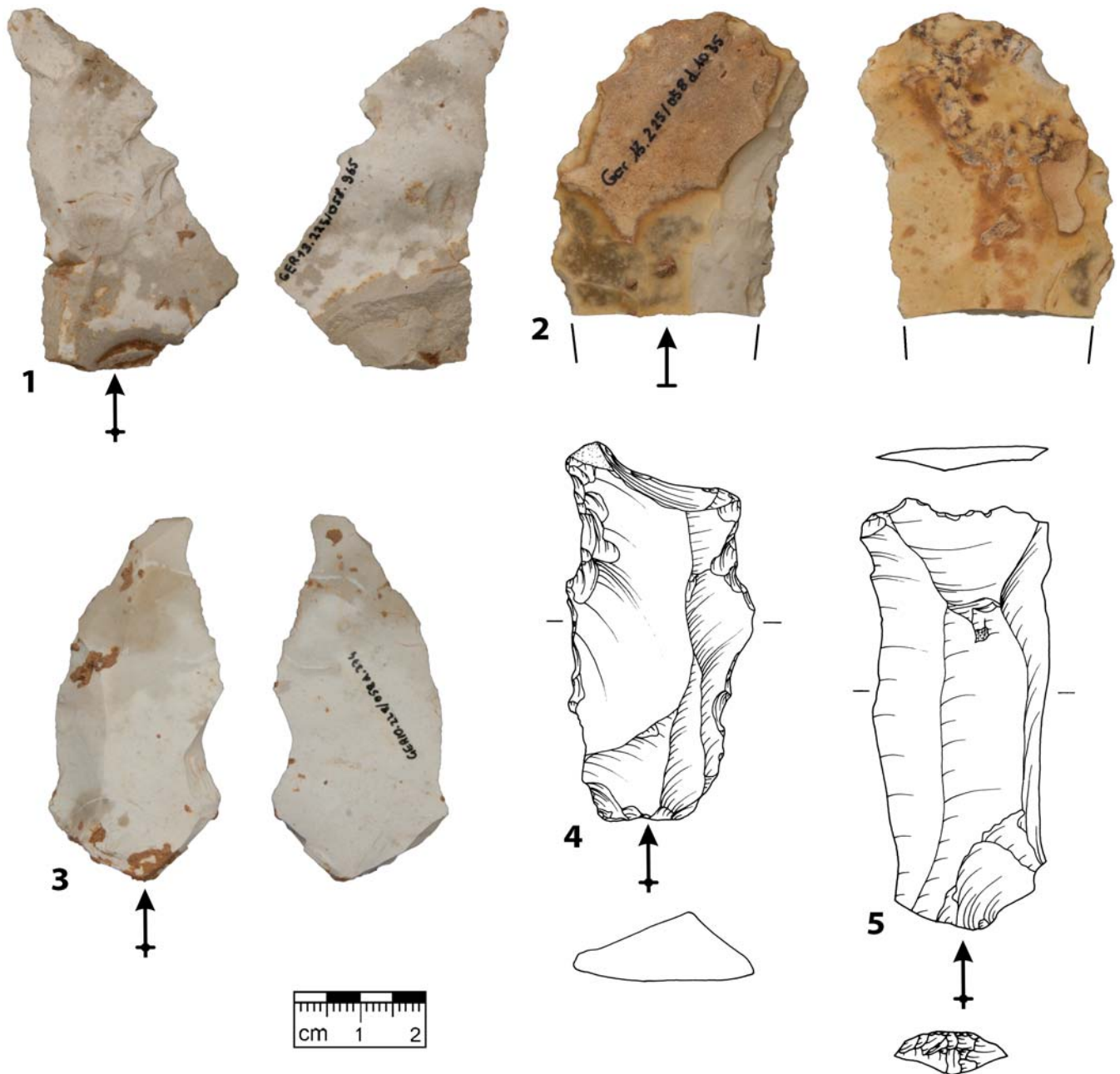
observations can be presented. Here, we describe primarily the general observation made on the GH 3 assemblage. Thus far, $n = 1,973$ lithic single finds have been measured from this layer (see also Figure 6).

Flint from the *argiles à silex* (clay sediments with flint, see also Arcelin 1877; Collenot 1876; Dewolf 1970, 1976) is the most commonly exploited lithic raw material in this horizon (for the distribution of the flint from the *argiles à silex* in Saône-et-Loire, see Frick *et al.* 2012; Rué 2000 and Figure 1). Besides this, currently unidentified flint and *chaille* (English chert, German *Hornstein*) variations were used, as well as quartz, and various quartzite and sandstone materials. Levallois methods (Boëda 1986, 1988, 1994, 1995b) of blank production are dominant. The blanks include oval, rectangular and triangular flakes, as well as leptolithic (blade and bladelets) products. So far, the count of these leptolithic products is $n = 79$ blades and $n = 13$ bladelets (see Figure 7).

Some *éclats débordants* (core edge flakes) and many cortical flakes show on-site reduction at early stages. Six of the cores recovered to date are of Levallois character, show centripetal scar patterns on the flaking surfaces, and are mostly small and exhausted (see Figure 8). The Levallois flakes show mostly a unidirectional or bidirectional scar pattern on their dorsal face.

In addition to numerous ($n = 60$) Levallois elements, we have some evidence of discoidal reduction ($n = 3$), and of dorsal and ventral reduction on flakes ($n = 11$). Hammerstones have also been recovered and are made from quartzite ($n = 32$) and sandstone ($n = 2$). Flakes recovered from such hammerstones ($n = 9$) indicate their on-site use (Figure 9).

So far, ten bifacial pieces have been recovered (see also Figure 10). The bifacial production concept is very similar to that described by Boëda (1995a) for the



Micoquian layers at Kůlna cave. The surfaces are constructed in a plano-convex manner, such that the edge of a plane always hits a convex surface (the best examples are shown in Figure 10). This concept was used for the production of both symmetrical (*bifaces*) and asymmetrical (*Keilmesser* or Bifacially backed knives) bifacial elements. In addition to complete bifacial elements, flakes from surface preparation produced with a soft-hammer technique were found (n = 27), suggesting the on-site production of bifacial pieces. The bifacial elements were

Figure 7: Illustrations and photographs of five of the Middle Paleolithic (metric) blades from the GH 3 (illustrations by Y. Hilbert, photographs and image by J. A. Frick).

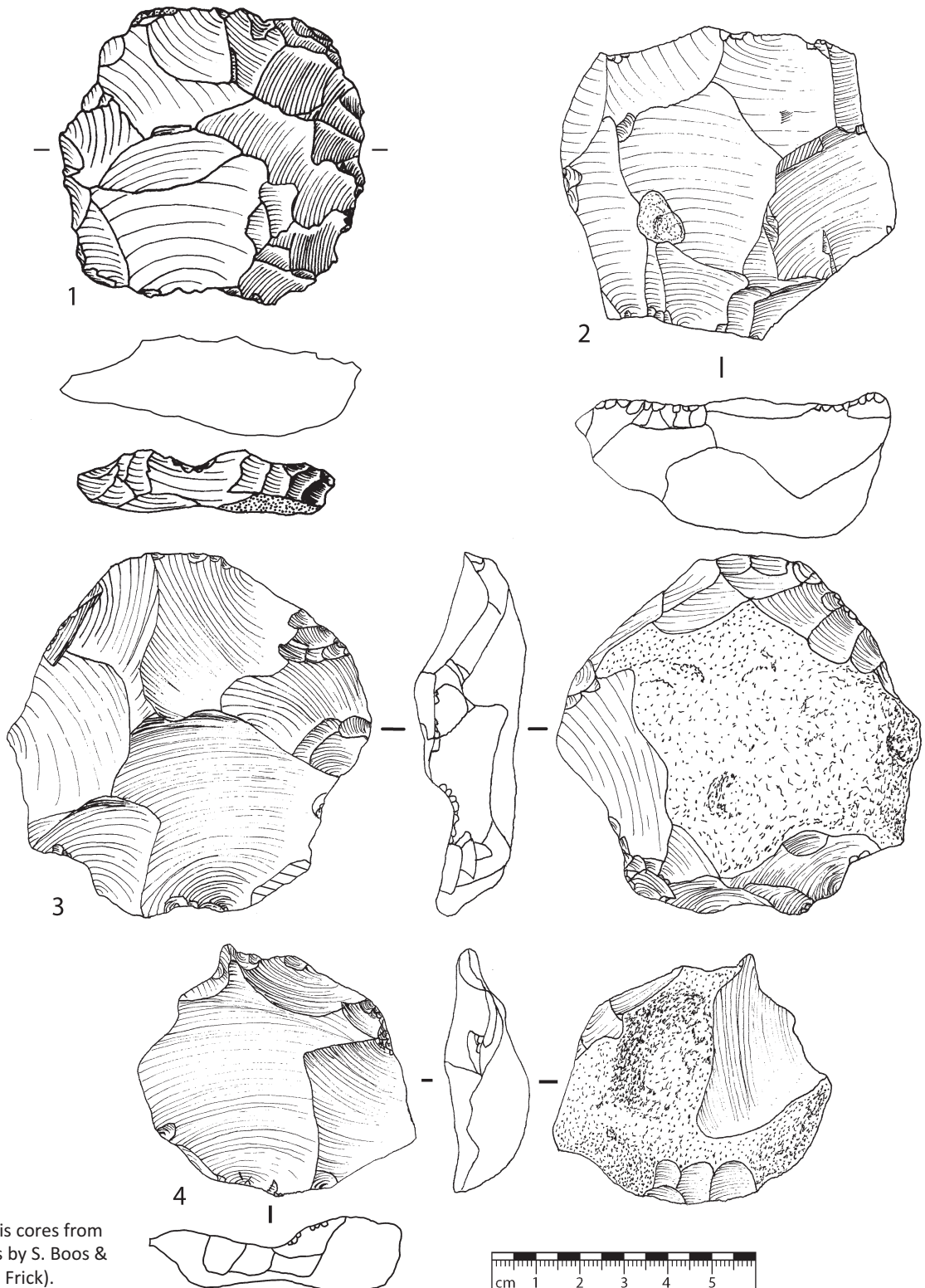
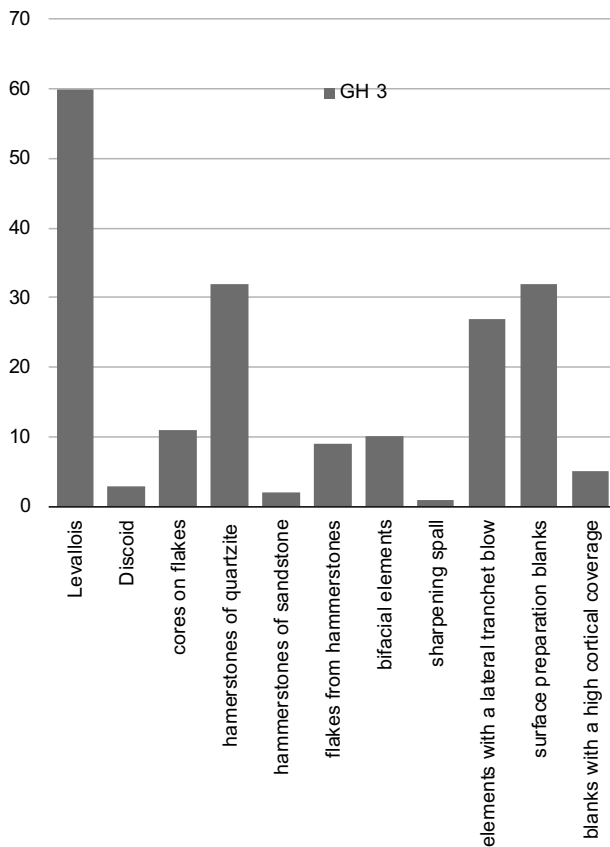


Figure 8: Four Levallois cores from the GH 3 (illustrations by S. Boos & Y. Hilbert, image: J. A. Frick).



litho-technological concepts and elements	GH 3
Levallois	60
Discoid	3
cores on flakes	11
hammerstones of quartzite	32
hammerstones of sandstone	2
flakes from hammerstones	9
bifacial elements	10
sharpening spall	1
elements with a lateral tranchet blow	5
surface preparation blanks	27
blanks with a high cortical coverage	32
total	192

Figure 9: Table and diagram of artifacts from GH 3 attributed to different litho-technological entities.

primarily made from local flint, but one example was made of a flint of unknown provenience (see Figure 10.2).

A total of 6.8% of all lithic artifacts from GH3 (n = 292) have been modified or transformed. Among them there are n = 5 denticulates, n = 5 notched pieces, n = 1 truncated piece, n = 8 endscrapers, n = 15 laterally retouched pieces and n = 69 side scrapers. Thus far only one sharpening spall from the retooling of a piece with a lateral tranchet blow (*coup de tranchet lateral*) has been detected, but several pieces (n = 8) with lateral tranchet blow scars were recovered. The first session of lithic refitting was done in 2010, and the results show a more or less horizontal distribution of the find items. Until now we have been able to refit n = 25 lithic pieces. Most are situated very close to each other (see Figure 11).

The lithic assemblage of GH 4 excavated so far contains only n = 74 single finds. Among them we found no evidence of bifacial reduction, but the Levallois concept seems to be dominant. The small spot of the GH 4x yielded even less material, but it also has a Levallois character.

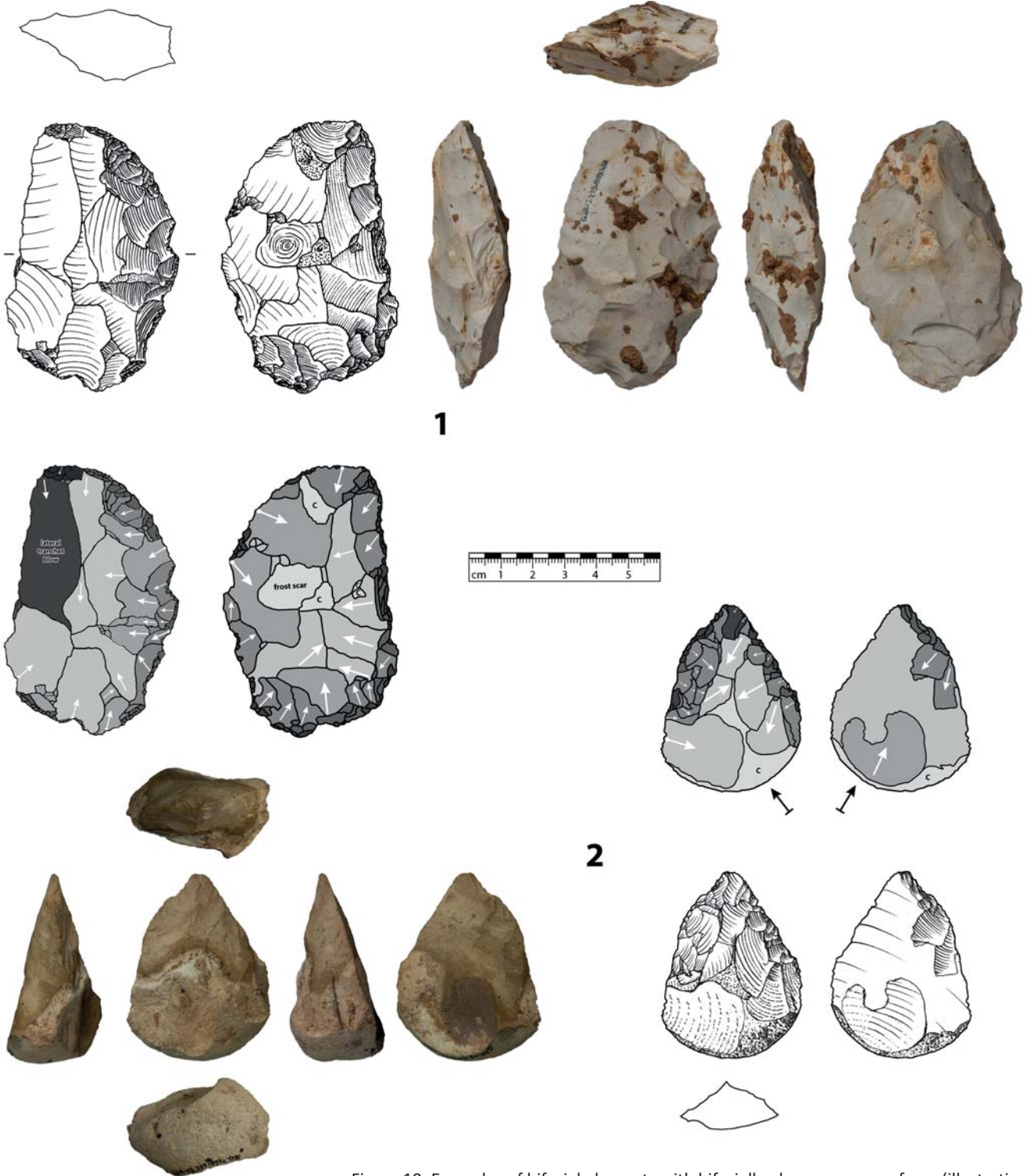


Figure 10: Examples of bifacial elements with bifacially plano-convex surfaces (illustrations by St. Wettengl, photograph, schéma diacritique & image by J. A. Frick).

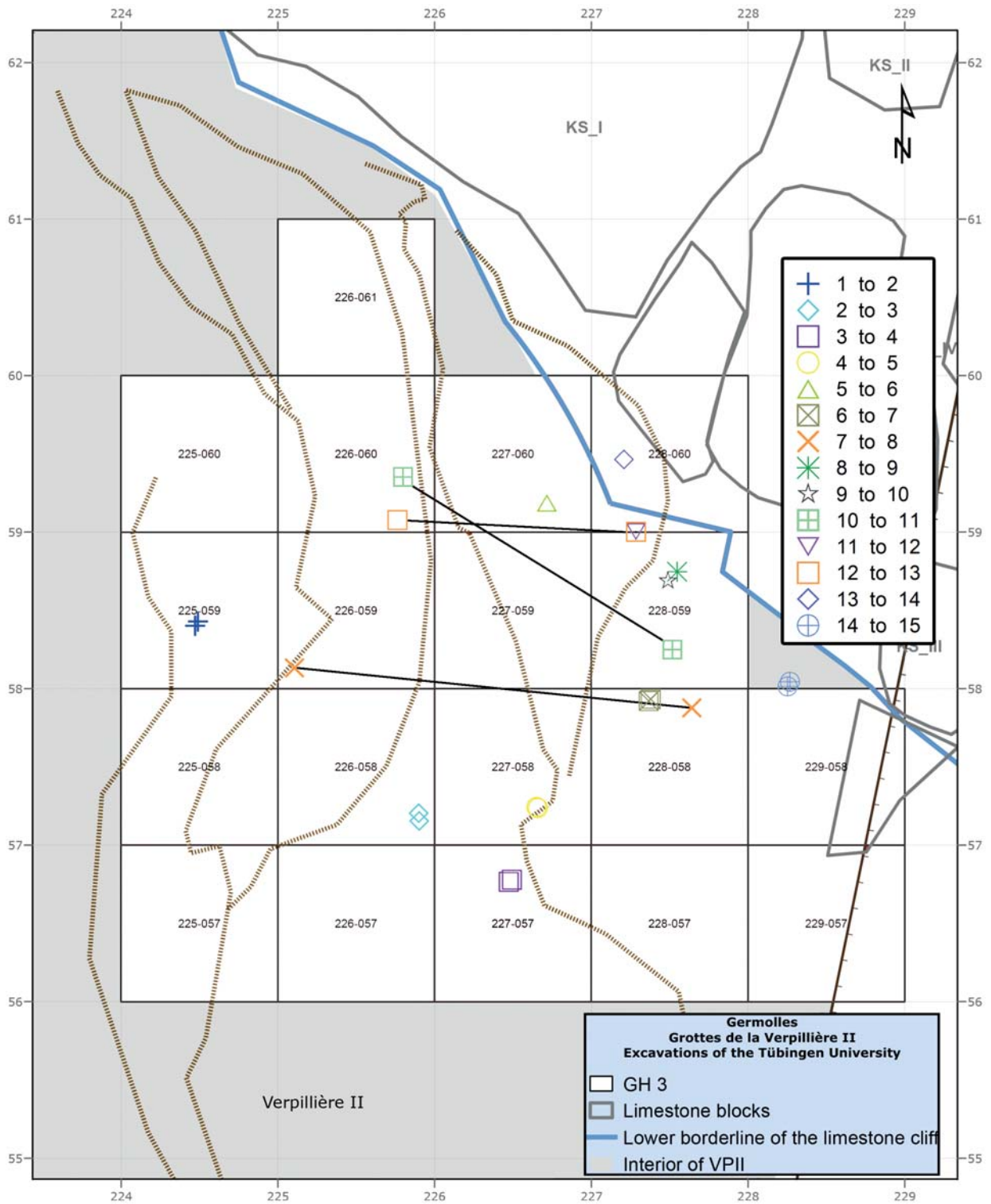


Figure 11: Refits from GH 3 in top view (GIS map: Ch. Th. Hoyer, image: J. A. Frick).

Faunal assemblages

The faunal record of the intact layers (GH 3, 4x and 4) is rich and includes a range of elements from very small fragments to large complete bones from Pleistocene herbivores like mammoth or rhinoceros (see Figure 12). GH 3 yielded $n = 1,939$ piece-plotted bones, $n = 190$ teeth, $n = 2$ fragments of antler and $n = 7$ fragments of ivory. GH 4x contains no piece-plotted faunal elements. In GH 4, $n = 70$ bones and $n = 21$ teeth were plotted. The analyzed faunal assemblage of the GH 3 (analysis made by A. Wilk) of the 2013 campaign suggests a moderate to cold climate at the time of occupation and indicates a clearly Pleistocene faunal assemblage (Floss *et al.* 2014). The faunal assemblage of GH 4 includes three complete long bones of a size appropriate to rhinoceros and one molar of a baby mammoth, which also indicate a cold climate. Beside the herbivorous hunting fauna we have only some evidence of carnivorous remains. Some bones from GHs 3 and 4 show anthropogenic modification like cut marks and knapping features. A complete atlas of an adult woolly mammoth (*Mammuthus primigenius*) was also recovered, unfortunately from the mixed layer, GH 2. GH 1 and GH 2 also contain holocene faunal elements such as a complete skull of a European badger (*Meles meles*).

Analyses of the spatial distribution of faunal artifacts indicates an accumulation of bones and teeth at the western cave wall (squares 225–058, 225–059, 225–060) in the upper parts of GH 3 ($z = 7.25$ to 7 m), which suggests a drop or dumping zone of scraps. In the lower parts of GH 3 the bones are more randomly distributed (Figure 5). The large bones from GH 4 were all found in 1 square meter (228–058).

Ongoing excavation, analyses and perspective

Continued excavation of the intact Middle Paleolithic layers at the *Grotte de la Verpillière II* is planned for the coming years. One aim will be to systematically remove more of the roof collapse and to excavate more of GH 3 in order to enrich the data and observations made so far and to gain further access to the GH 4 sediments. Several analyses in progress will be published in the near future (e.g. lithic technological, refitting, provenience, spatial, faunal and organic artifact analyses, site formation processes, micromorphological and geomorphological studies, 3D modeling, datations).

We hope to be able to separate the lithic finds from GH 3 into raw material units (e.c. Hahn 1988; Roebroeks 1988) and/or workpieces (Uthmeier 2004) and into archeological or occupation layers that correspond to the lenses of charcoal observed in this unit. Different archeometric analyses of organic material (ivory, antler, bone and teeth) are also in progress (Reiche *et al.* 2013), and these suggest the possibility of further refining the internal chronology of the layers at *Verpillière II*. In the ongoing excavations, we are also documenting the size (by geological size class) and distribution of limestones >5 cm, charcoal fragments and animal burrows (Frick *et al.* 2013) in order to assess their effects on the distribution of finds.

2013	species	GH 3
herbivore	<i>Bos primigenius</i> or <i>Bison bonasus</i>	7
	<i>Capra ibex</i>	1
	<i>Equus</i> , sp.	4
	<i>Mammuthus primigenius</i>	1
	<i>Megaloceros giganteus</i>	10
	<i>Megaloceros giganteus</i> or <i>Alces alces</i>	2
	<i>Rangifer tarandus</i>	2
	large Bovid or Cervid	6
	small Bovid or Cervid	12
carnivore	<i>Canis lupus</i>	1
	<i>Crocuta spelea</i>	1
	<i>Ursus</i> , sp.	1
	<i>Martes</i> , sp.	3
	large carnivore	1
	medium carnivore	3
rodents		3
undetermined	undetermined	135
	hare size	7
	wolf size	5
	reindeer size	61
	cervid-bovid size	68
	bigger then cervid-bovid size	1
total		335

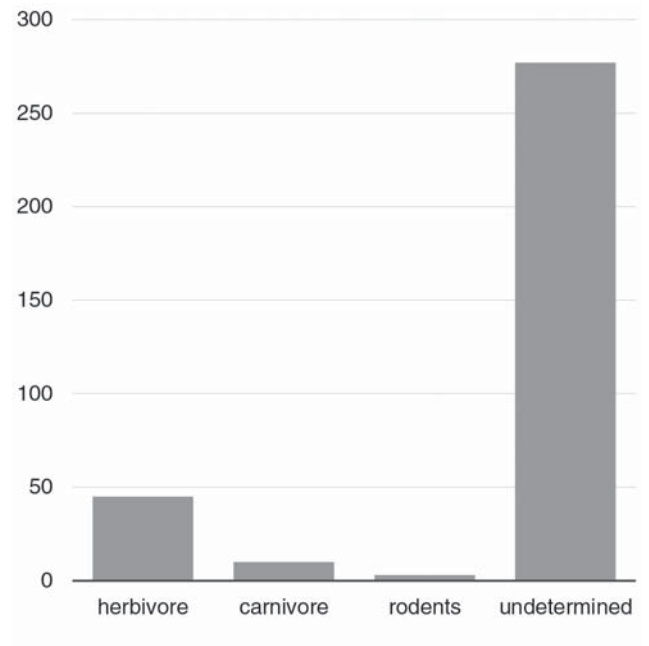


Figure 12: Two tables of the animal species from the 2013 excavation of GH 3 according to the analyses of A. Wilk.

A preliminary analysis aimed at identifying organic tools in the intact Middle Paleolithic layers found no evidence of shaped tools, but did indicate the presence of knapped bones (pers. comm. E. Tartar and C. E. Heckel). Preliminary radiometric dating results are promising and will be presented soon (pers. comm. L. Zöller and M. Richard).

Conclusion

Grotte de la Verpillière II shows a high potential for detailed analyses of the daily life of late Middle Paleolithic Neanderthals in southern Burgundy. In this region (Dept. *Saône-et-Loire*) the *Grotte de la Verpillière* II is (together with the *Grotte de la Verpillière* I) the only site that is excavated with modern high-resolution methods. Examples of mid-range-resolution excavations are Sennecé-lès-Mâcon (INRAP, unpublished), Vergisson (Chaput 2001; Combiér 2001; Fabre 2010) and the Cave Denezillier in Solutré (Pautrat and Pugh 2002). From old excavations as well as old and new archeological surveys we now know more than 200 Middle Paleolithic sites in Burgundy (caves, open-air sites and surface collections).

Eastern France is an area of great interest for the study of Middle Paleolithic assemblage variation, in part because previous research has suggested that this is a region of “mixed assemblages.” Many lithic assemblages in the region combine elements of the classical Bordian Moustérian facies (Ferrassie, Quina, MTA, etc.) and of the central/eastern European *Keilmessergruppen* assemblages, such that different classifications have been proposed, depending on the perspective and training of the excavators and analysts. For example, Krukowski (1939–1948) described the first known Polish assemblages with Asymmetrically backed bifacial elements as “Pradnik cycle.” In the 1960s, Bosinski (1967) correlated central/western European assemblages with La Micoque, Dordogne and used the term “Micoquien” to describe them. Later, Desbrosse *et al.* (1976) associated the backed bifacial elements with a lateral tranchet blow (*Prondniks*, *Keilmesser*) from the *Grotte de la Verpillière* (I) with finds from *Ciemna*, Poland and *Buhlen*, Germany.

In the late 1990s, all of these Central European assemblages with Bifacially backed elements were integrated into the *Keilmessergruppen*, KMG (Jöris 2003), also called Moustérian with Micoquian Option, M.M.O. (Richter 1997). Around the same time, Eastern French assemblages with Micoquian elements were grouped into the “*Industries charentiennes à influence micoquiennes*” (Farizy 1995), also with a close relation to central European assemblages. Recently, these ideas were picked up by Ruebens (2012, 2013), who recognizes a transitional group between assemblages from South-western and Central France (MTA) and Central Europe (KMG), which she has named “Micoquian with bifacial tools” (MBT).

At the moment, the data from *Grotte de la Verpillière* II cannot help to solve this classification problem. It does, however, contribute to the increasing appreciation of the importance of time and geography to the analysis of variation in Middle Paleolithic technologies. A wealth of Middle Paleolithic sites in France remains undated, and patterns of Neanderthal exploitation of the region (e.g. distance to raw material sources, prey availability and topographical settings) remain poorly understood. The recent research at *Grotte de la Verpillière* II confirms that eastern French sites with Micoquian bifacial elements are not rare (e.c. *Verpillière* I & II, Vinneuf, Villeneuve, Sennecé-lès-Mâcon), and recent archeological surveys in the *Côte Chalonnaise* (*Vallée des Vaux*) have revealed open-air sites with backed bifacial elements (pers. comm. B.

Macioszczyk) that indicate the potential to establish broader territorial areas (contextual areas) to contextualize ongoing research (Richter *et al.* 2012).

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Résumé

Dans le cadre des fouilles programmées à la grotte de *la Verpillière*, à Germolles (10 km à l'ouest de Chalon-sur-Saône), sous la direction d'Harald Floss, un nouveau site en grotte a pu être découvert en 2006. Cette nouvelle grotte, située à seulement 50 m de la première, a été dénommée « *la Verpillière II* », tandis que la grotte anciennement connue s'appelle désormais « *la Verpillière I* ». Les premières campagnes de fouilles, entre 2006 et 2008, ont été surtout consacrées à l'évacuation de dépôts remaniés et de blocs d'effondrement, en vue de créer un accès à la grotte. La campagne de fouilles de 2009 nous a permis de mettre au jour, pour la première fois, des niveaux intacts du Paléolithique moyen, en-dessous des niveaux remaniés. Depuis lors, des fouilles programmées annuelles sont consacrées à l'exploration de ces niveaux, qui se distinguent par des industries lithiques très riches, par une faune également abondante, ainsi que par des milliers de petits fragments de charbons de bois se présentant sous forme de niveaux bien distincts. Les industries lithiques en question se caractérisent par un pourcentage élevé de débitage Levallois. Le niveau supérieur (GH 3) dispose d'une composante bifaciale apparentée aux groupes à « Keilmesser » d'Europe centrale, au Micoquien de l'ouest de l'Allemagne (suivant G. Bosinski), au *Charentien à influences micoquiennes* de l'est de la France (suivant C. Farizy), au Moustérien à option micoquienne d'Europe centrale (suivant J. Richter), ou encore au « *Mousterian with bifacial tools* » défini par K. Ruebens pour la France septentrionale et le Benelux. L'objectif de cette contribution est de donner un premier aperçu de nos travaux sur le nouveau site du Paléolithique moyen dans l'est de la France que représente la Verpillière II, à Germolles.

Zusammenfassung

Im Zuge der Ausgrabungen an der seit alters bekannten Fundstelle Grotte *de la Verpillière* in Germolles (10 km westlich Chalon-sur-Saône) konnte ein Tübinger Team unter der Leitung von Prof. Harald Floss im Jahre 2006 eine neue archäologische Fundstelle entdecken. Da sich diese Fundstelle rund 50 m südlich der gut bekannten Grotte *de la Verpillière* (nun als Verpillière I bezeichnet) befindet und auf derselben Gemarkung liegt, wurde sie Verpillière II genannt. In den Kampagnen der Jahre 2006 bis 2008 wurden vorwiegend durchmischte Sedimente sowie große Kalksteinböcke eines Deckenversturzes entfernt, um Zugang zum Eingang der Höhle zu erhalten. In der Kampagne 2009 wurden unterhalb der Versturze intakte Schichten mit mittelpaläolithischen Artefakten angetroffen. Seit dieser Zeit werden diese alljährlich in einer achtwöchigen Kampagne sukzessive geborgen und im Folgenden ausgewertet. Die intakten Fundschichten enthalten unter anderem zahlreiche Steinartefakte und Faunenelemente, sowie tausende kleine Holzkohlefragmente, welche sich in voneinander abgesetzten Linsen präsentieren. Die lithischen mittelpaläolithischen Industrien beinhalten einen hohen Prozentsatz an levalloiden Elementen. Die oberste intakte Schicht (GH 3) besitzt eine bifaziale Komponente, die hohe Ähnlichkeit mit den Keilmessergruppen (mitteleuropäische Inventare mit bifaziellen Stücken mit Rücken und messerartiger Schneide), mit dem „Micoquien“ in der westlichen BRD (nach Bosinski), mit dem *Charentien à influences micoquiennes* in Ostfrankreich (nach Farizy), dem Moustérien mit Micoque-Option in Mitteleuropa (nach Richter) oder dem *Mousterian with bifacial tools* in Nordfrankreich und den BeNeLux-Staaten (nach Ruebens) besitzt. Hier wird ein erster Überblick über die laufenden Arbeiten (Ausgrabungen, Aufnahmen, Analysen und Auswertungen) an und zu dieser neuen mittelpaläolithischen Fundstelle in Ostfrankreich gegeben.

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