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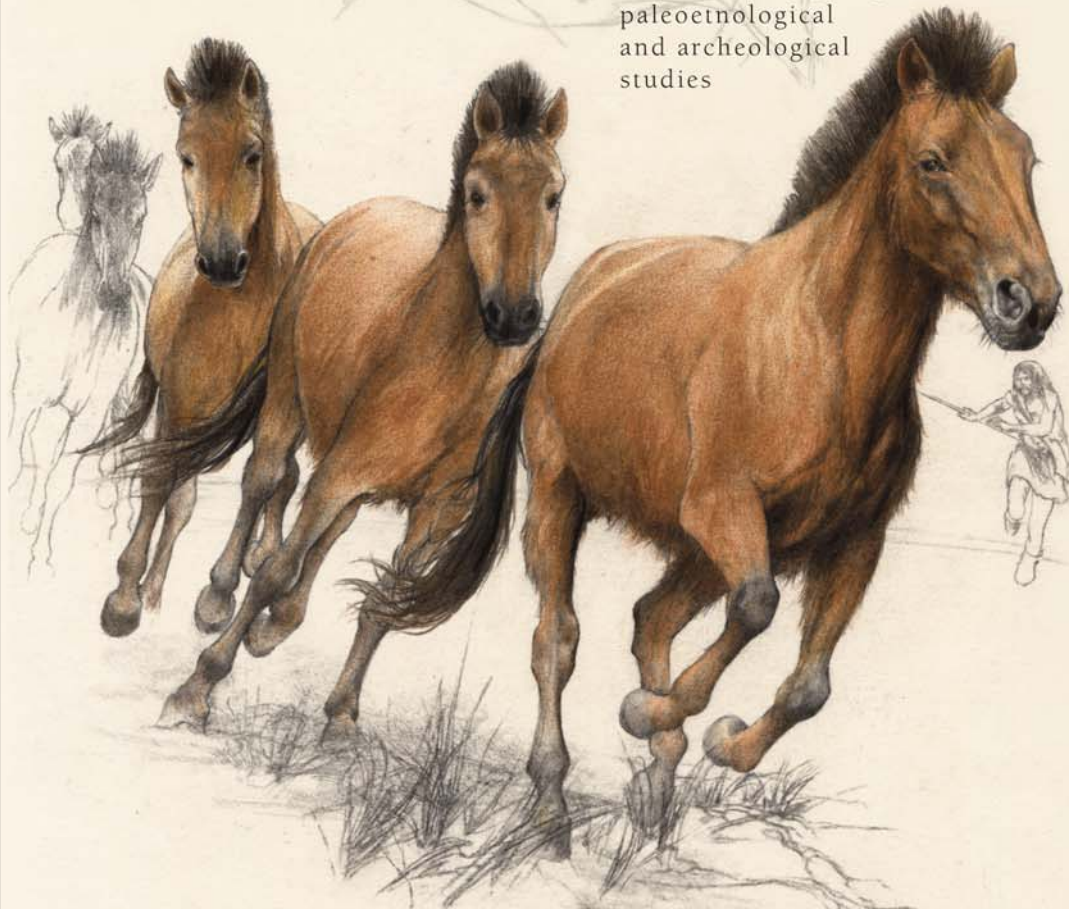
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RESEARCH ON UNDERWATER MOUSTERIAN: THE SITE OF RESNIK – KAŠTEL ŠTAFILIĆ, DALMATIA, CROATIA

Ivor Karavanić

Abstract

Resnik – Kaštel Štafilić is an open air Middle Paleolithic site from a period when the sea level was much lower than today. Small scale underwater excavation and systematic collection of surface finds at the site using a grid have been ongoing since 2008. The methodology applied will be further described in this paper. Exploration of the site is important for several reasons: it adds to the overall picture of the area that was once land and connects it to the other sites, it allows for a development of methodology for underwater excavation of Paleolithic sites, and it also opens up a whole set of questions related to the processes of formation and destruction of underwater sites.

Keywords

Underwater Archeology, Middle Paleolithic, Mousterian, Resnik – Kaštel Štafilić, Dalmatia, Croatia

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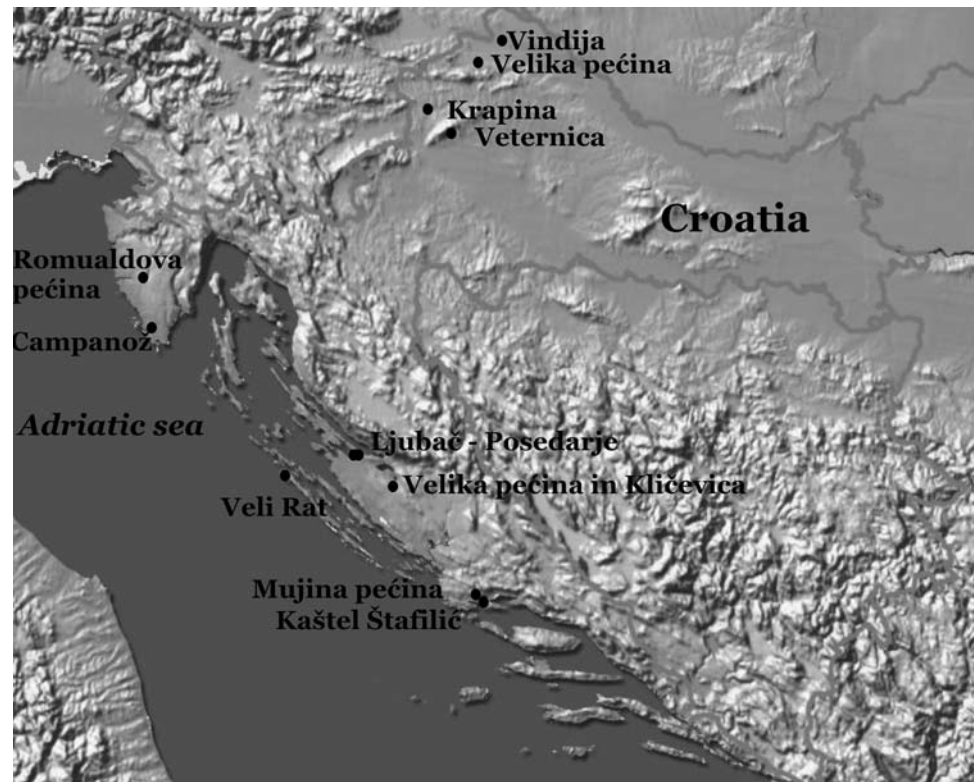
Introduction

The sites of Croatia are known worldwide in prehistoric archeology because of their important finds of Paleolithic industries and/or fossil human remains. The most famous sites are Krapina and Vindija, situated in the continental region of Hrvatsko zagorje (northwestern Croatia), which differs geographically and ecologically from the Mediterranean sites situated farther south on the Adriatic coast and its hinterland (Figure 1). Krapina yielded Neandertal remains associated with the Mousterian industry, dated ca. 130.0 ky (Rink *et al.* 1995; Simek and Smith 1997), while Neandertals associated with the Mousterian industry at the site of Vindija are dated to ca. 40.0 ky BP (Krings *et al.* 2000; Serre *et al.* 2004). Veternica cave yielded

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Figure 1: Map showing Croatian Mousterian sites mentioned in the text.



Mousterian artefacts. Unlike Krapina and Veternica, Vindija and Velika pećina also contain Upper Paleolithic industries that have an important role in the debate on the Middle/Upper Paleolithic transition.

In contrast to the situation in Hrvatsko zagorje, the cultural and palaeoecological situation in the Middle Paleolithic in the eastern Adriatic region is little known. Until recently, not a single Middle Paleolithic site has been known in the Croatian part of Istria. Romualdova pećina, located at the end of Limski kanal (the Lim Bay) near Rovinj had been known as an Upper Paleolithic site (Malez 1979), but D. Komšo (2008) excavated the site in 2007 and found Mousterian artefacts. Based on the dates on speleotherm by M. Malez, and the stratigraphy determined during the excavation in 2007, it is likely that at least a part of the Middle Paleolithic industry from this site represents Late Mousterian. Furthermore, Campanož, a salvage-excavated open-air site near Pula yielded more than 30,000 chert fragments (Komšo 2011). Based on the lithic finds the site belongs to the Middle Paleolithic and can be interpreted as a workshop. No human skeletal remains were associated with Mousterian deposits from Romualdova and Campanož.

Until recently, Paleolithic research in Dalmatia (south Croatia) was rare. Superficial artefact collections from the surface of open-air sites have enabled lithic analysis mainly based on typology (Batović 1965, 1988; Malez 1979; Chapman *et al.* 1996; Vujević 2009). An entire series of sites are known to exist in the area north of the town of Zadar and south of the Ražanac village, between the bay of Ljubac

and the village of Posedarje. Furthermore, a large number of stone artefacts and chunks were collected near the lighthouse at Veli Rat on the northern part of the Dugi Island. The material from all of these sites was collected on the surface where it was directly exposed to weathering. Therefore, many pseudo-artefacts, pseudo-tools and naturally fragmented pieces were found together with artefacts and tools.

The only site in Dalmatia with a clear and homogeneous Mousterian stratigraphic sequence that was excavated systematically (1995–2003) is Mujina pećina near the town of Kaštela (Karavanić *et al.* 2008). The stratigraphic sequence was dated between about 45.0 and 39.0 uncal ky BP (Rink *et al.* 2002).

A test excavation of another Dalmatian site – Velika pećina in Kličevica near Benkovac was conducted in 2006 and more extensive excavation started in 2012 and continued in 2013. A short stratigraphic sequence was established, with several layers yielding numerous Mousterian finds, one of which was dated to about 39.0 uncal ky BP (Karavanić *et al.* 2007).

Furthermore, small scale excavation at the underwater open-air Mousterian site of Resnik – Kaštel Štafilić using a grid was conducted in 2008 and continued through 2010–2013 when only surface finds were collected over a larger area (Karavanić *et al.* 2009). The methodology and preliminary research results on this site, important for several reasons, are briefly presented in this paper.

Background

The site of Resnik is a well-known locality from the Hellenistic and late Roman periods, and finds have been collected both on land and under water (Brusić 1990; 2004). Neolithic finds have also been collected from an underwater site here, but at a different location than the Hellenistic and late Roman finds (Brusić 2004). Of particular importance is the discovery of an underwater site that yielded Paleolithic artefacts. The site is at the depth of about 4 m and the discovery was reported by I. Svilan. After Z. Brusić (1977) first reported on possible Middle Paleolithic artefacts in Dalmatian underwater zone over thirty years ago, this was an entirely new case indicating a possible Middle Paleolithic site. The first archeological investigation of the underwater Paleolithic site Resnik – Kaštel Štafilić took place in September 2008, and has continued from 2010 till present.

Research method

The standard method used in investigations of Paleolithic sites on land was adapted to underwater work taking into account the specific features of this site. The first year of investigation was especially challenging because the successful application of the method was uncertain and it required the participation of experienced divers. The grid was set, as well as the benchmark for measuring depths. The corners of the grid were recorded by a total station. The finds from the surface were collected by hand, and excavations were performed with the help of a water dredge in spits 5 to 10 cm thick (Figure 2). The sondage measured 8 m², divided into 1 × 1 m squares, further



Figure 2: Excavation performed with the help of a water dredge (Photo with courtesy of M. Parica, University of Zadar).

subdivided into 0.5×0.5 m squares (which eventually proved an excessively detailed division considering the small number of finds). As it was impossible to distinguish finds from ordinary rocks underwater, the entire sediment was gathered into bags, transported to the coast and then wet and dry sieved on land in 5 mm and 2 mm sieves.

The 2008 investigations identified the stratigraphic contexts and it was established that finds only rarely appear within specific layers, being more frequent on the very surface of the seabed. This is why in the following campaigns (2010–2013), rather than excavating, we decided to collect the material from the surface, divided by squares (1×1 m) in the grid (Figure 3). Depths of square meters (corners and middle part) were taken before and after collecting the material (Figure 4). The corners of the grid were recorded by a total station (Figure 5). Surface material was gathered into bags, transported to the coast and then wet sieved on land in a 5 mm sieve (Figure 6).

Preliminary Results and Discussion

Research on underwater Mousterian site Resnik – Kaštel Štafilić (2008) began with the cleaning of the surface stratigraphic unit that consisted mainly of stones and some ooze. A few artefacts were found as well as some chert debris, probably broken as a result of natural processes. After the surface layer had been removed, the excavation of the sediment mixed with stones started. Several possible artefacts and large quantities of chert debris were found. The excavation layers deeper down were somewhat lighter colour, and beneath them was a marly rock. In addition to chert



Figure 3: Collecting artefacts from the surface layer (Photo with courtesy of K. Zubčić, Croatian Conservation Institute).

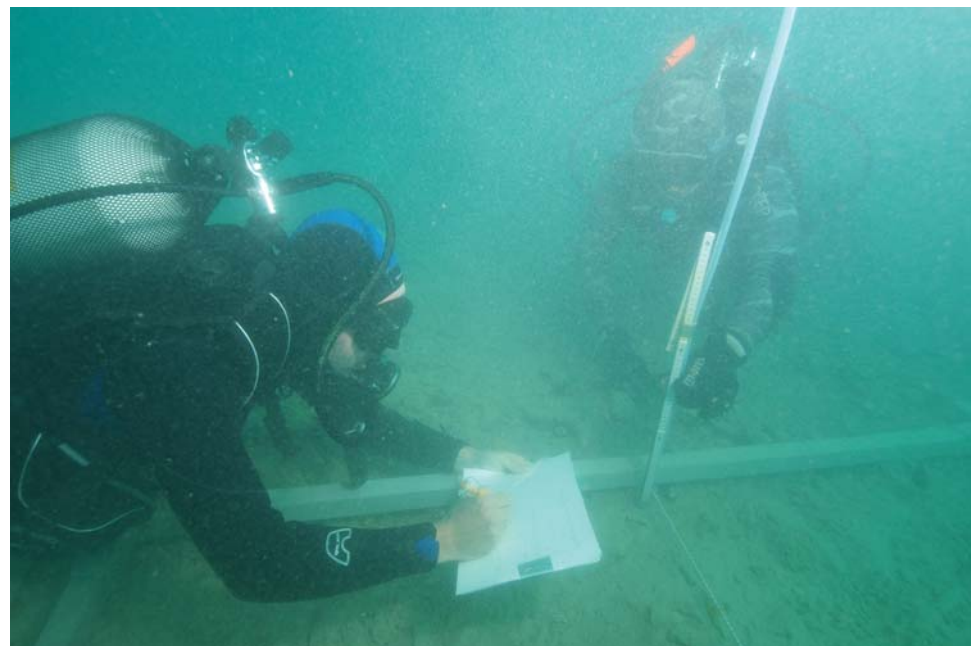


Figure 4: Taking the depths (Photo with courtesy K. Zubčić, Croatian Conservation Institute).

debris, whose frequency decreased with depth, a sidescraper and several possible tools were found (most of these are probably pseudo-tools or pseudo-artefacts, partly or entirely created by natural processes). In the following years (2010–2013) more archeological material was collected from the seabed surface.

Although the number of collected artefacts with clearly Mousterian typological features was relatively small, in addition to the artefacts collected earlier by I. Svilan, these proved beyond doubt that Resnik – Kaštel Štafilić is a Middle Paleolithic underwater site. It represents elements (lithics) from one or several open air habitation sites from the time when the sea level was considerably lower than today. The original site (or sites) was destroyed by the sea and there is a stratigraphic profile on the coast which might represent a part of the Pleistocene stratigraphy (S. Miko personal communication). However, underwater sediments which contain Pleistocene artefacts were not formed at that time, but later (Holocene). The reconstruction of site formation processes is very complex because the finds on the seabed surface can be moved by waves. According to Crmarić *et al.* (1998) the wave basis in the western part of the Kaštela Bay, near the Pantan spring, lies at a depth of 15–20 m during gale-force *jugo* (*scirocco*), and at 5 m during *bora*. In addition, the finds can be disturbed by various sea animals, as well as humans (construction works, e.g. sewer conduits, as well as seabed digging for shells). Although the finds are disturbed (due to the action of waves and other factors) it seems that their accumulation is mainly not a result of displacement from another locality that was far away from the present site as was reported earlier (Karavanić *et al.* 2009). However, only some of the finds may have arrived to their present position through erosion from another place.



Figure 5: Recording the corners of the grid by a total station (Photo by author).

Among the tools, several pseudo-tools and numerous naturally broken pieces of local chert were found. All the artefacts belong to the Mousterian industry, and there are also indications of centripetal technique. Not a single artefact from the Upper Paleolithic was found during the field work, although I. Svilan found a retouched blade that could belong to the Upper Paleolithic.

The underwater site Resnik – Kaštel Štafilić is important for several reasons. It adds to the overall picture of the area that was once land and connects it to the other sites. It also allows for a development of methodology for underwater excavation of Paleolithic sites, which is one of the important directions that Paleolithic archeology can take in the near future. It also opens up a whole set of questions related to the processes of formation of underwater sites.

However, the question whether the site is contemporaneous with, or older than, the occupation at the nearby Mousterian site Mujina pećina (that took place between 45.0 and 39.0 uncal ky BP) remains open (Karavanić *et al.* 2008). There is evidence that people used Mujina pećina during autumn and spring, while there is no evidence for hominin activity at this site during summer and winter (Miracle 2005). During winter they may have moved closer to the coast and one of the locations on their trail might have been the Resnik – Kaštel Štafilić underwater site, while other locations are most likely also below sea level at present time, or destroyed by subsequent changes in sea level (Karavanić *et al.* 2014).

Although no diagnostic fossil hominin remains have been found at Resnik – Kaštel Štafilić and other Dalmatian Middle Paleolithic sites, the archeological assemblage (Mousterian industry) and the results of chronometric dating of Mujina



Figure 6: Extracting the artefacts from the raised sediment (Photo by author).

pećina and Velika pećina in Kličevica indicate that their sequences are contemporary with the late Neandertals and earliest known anatomically modern human groups in Europe. It is important to continue research on the Middle Paleolithic of Dalmatia to reveal yet another ecological and geographical region that Middle Paleolithic Europeans inhabited, a region quite different from that of their better-known counterparts in northwestern Croatia. Furthermore, a comparison of the obtained results with the sites in Central Europe can establish and explain similarities and differences between the adaptation and behaviour of Mousterian people in two different environmental zones (Mediterranean and continental).

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Résumé

Resnik – Kaštel Štafilić est un site de plein air du Paléolithique moyen. Il remonte à une époque où le niveau marin était considérablement plus bas qu'à l'heure actuelle. Des fouilles subaquatiques de petite envergure, ainsi que des ramassages de surface systématiques sur le site à l'aide d'un quadrillage sont en cours depuis 2008. La méthodologie mise en œuvre fait l'objet d'une description dans le présent article. L'exploration du site en question est importante à plusieurs égards : en plus de compléter le tableau des sites présents dans la région à une époque où celle-ci était exondée, elle contribue au perfectionnement méthodologique des fouilles subaquatiques de sites paléolithiques. Qui plus est, l'exploration du site ouvre le champ à toute une série de questions liées aux processus de formation et de destruction des sites subaquatiques.

Zusammenfassung

Resnik – Kaštel Štafilić ist eine mittelpaläolithische Freilandfundstelle aus einer Zeit, als der Meeresspiegel wesentlich niedriger war als heute. Seit 2008 werden kleinräumige Unterwasserausgrabungen und systematische Oberflächenaufsammlungen mit Hilfe eines Messgitters durchgeführt. Die angewandte Methode wird in dem Beitrag näher erläutert. Die Untersuchungen an der Fundstelle sind aus mehreren Gründen wichtig: Sie leisten einen Beitrag zum Gesamtbild der Gegend, die damals Festland gewesen ist und verbinden sie mit anderen Fundstellen; sie bietet die Gelegenheit zur Entwicklung einer Methode für die Unterwasserausgrabung paläolithischer Fundstellen; und sie eröffnet einen ganzen Fragekatalog hinsichtlich der Formationsprozesse und Zerstörung von Unterwasserfundstellen.

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