

BEYOND BALKANIZATION

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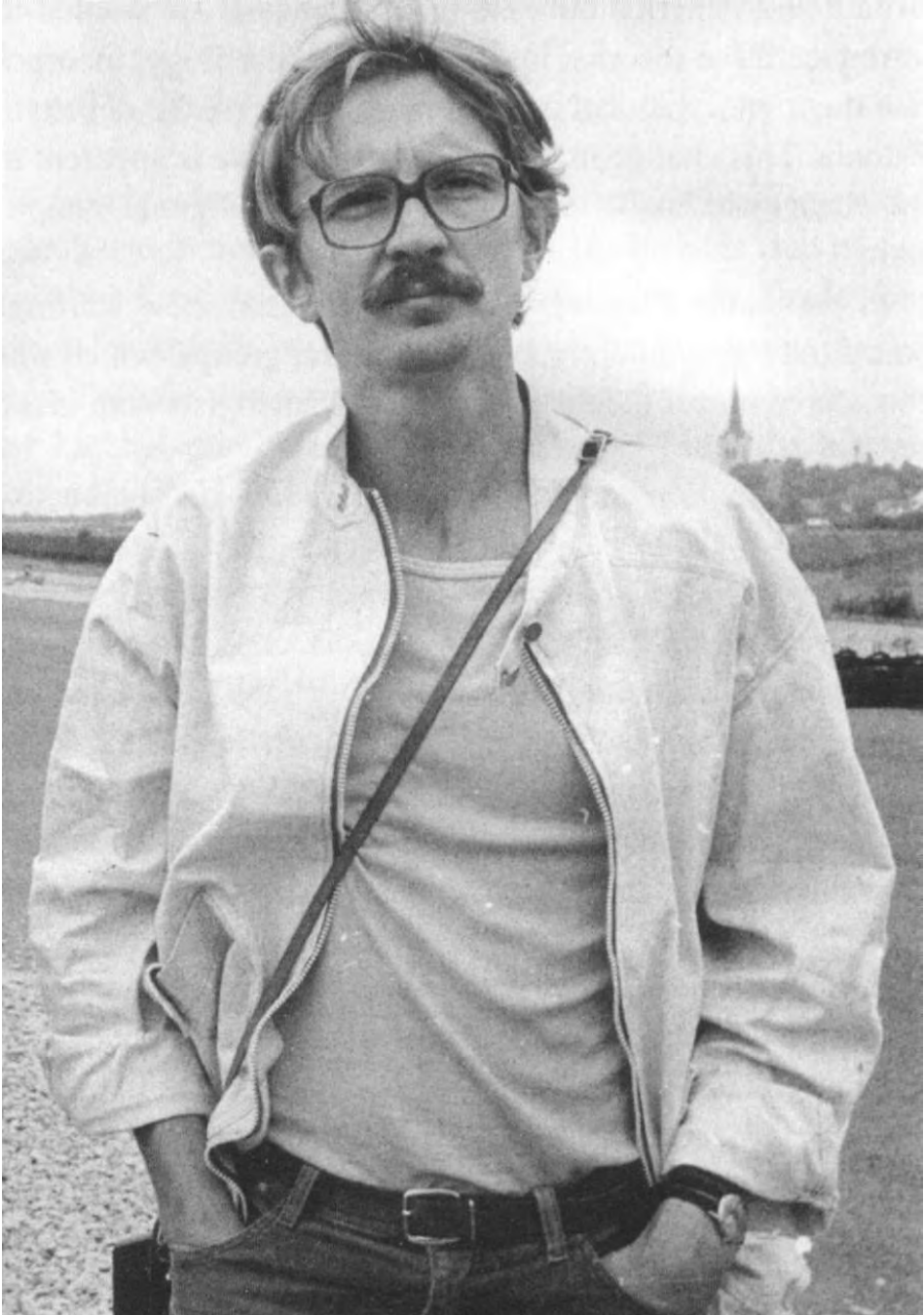
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In Memoriam Priit Ligi (24 May 1958 — 28 September 1994)

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Editor's Foreword

This volume contains the majority of the papers presented during a conference that took place on 16th-21st May, 1997 in Łódź, Poland. The conference was organized by the Institute of Archaeology, University of Łódź and Département d'anthropologie, Université de Montréal (Canada). The conference was funded by the University of Łódź and by IREX (International Research & Exchanges Board), which also supported this publication. The publication was partly founded by the University of Łódź and by the Foundation of Adam Mickiewicz University, too.

The major questions of the conference were, 1) what is the current evidence for eastern or southern influences in the development of eastern European Mesolithic and Neolithic populations, and 2) to what extent are current political trends, especially the reassertion or, in some cases, the creation of ethnic and national identities, influencing our interpretations of the prehistoric data.

The idea for such a conference came into being through the co-organizers' long-term studies of the development of those prehistoric human populations which inhabited the vast region stretching north and east from the Oder river and Carpathian Mountains to the foothills of the Urals. In a tradition established in modern times by Gordon Childe, virtually all of the transformations of Eastern Europe's Neolithic Age human landscape have been assumed to be responses to prior developments in the Balkan peninsula and Danube basin. We think that a body of new evidence requires a renewed analysis of the distributions of cultural products, peoples, and ideas across Eastern Europe during the Mesolithic through the Early Metal Age within a much wider geographic context than previously has been the case. This includes giving adequate attention to the far-ranging interactions of communities between the Pontic and Baltic area with those located in both the Caucasus and the Aralo-Caspian regions.

We hope that this volume will contribute to such a redirection of future analyses.

Lucyna Domańska
Ken Jacobs

Editorial comment

1. All dates in the *B-PS* are calibrated [see: *Radiocarbon* vol.28, 1986, and the next volumes] (other versions are cited for the wish of authors). Deviations from this rule will be point out in notes.

2. The names of the archaeological cultures (especially from the territory of the Ukraine) are standarized according to the English literature on the subject (e.g. Mallory 1989). In the case of a new term, the author's original name has been retained.

Aleksander A. Yanevich

THE NEOLITHIC OF THE MOUNTAINOUS CRIMEA

The first Neolithic site, situated in the mountainous part of Crimea, has been discovered at the beginning of the 20th century [Moiseev 1918], and in the 1930s the Neolithic period has been taken into consideration in divisions of the Stone Age of Crimea for the first time [Bader 1940]. In 1950-1980 new sites have been discovered and investigated, and as a result of these a new system of divisions of the Crimea Neolithic came into being [Kraynov 1960; Formozov 1962; Shchepinskiy 1968; Kolosov 1971; Telegin 1982]. At the same time a new approach on relatively fast transition from hunting and food-gathering to farming and cattle breeding in Crimea occur as well as on local pig domestication [Kraynov 1960; Formozov 1962; Kolosov 1971]. These approaches are however in contradiction to the results of new research. The process of the Neolithization of Crimea ran in more complicated way than it had been thought before because hunter-gatherers and farmers could co-exist for a long time. That process reflects the Neolithic of the mountain part of Crimea.

1. PALEOECOLOGY

Crimea, in respect of topography, is divided into two parts: the north — which is a plain, and the south — which is a mountainous part. Three main mountain ranges belong to the mountains region: north with the height of up to 250 m above sea level, central — with the height of about 500 m, and south, the highest, reaching 800-1500 m. The peculiarity of the main (the highest) range are immense plateaux on the mountain ridges.

The climate of the peninsula has been, since the end of Early Holocene, definitely warm and humid, similar to the present one. Boreal warming is well available, especially in pollen diagrams of the Kerch sites [Matskevoy, Pashkevich 1973], and in diagrams from the Shan-Koba settlement [Besusko, *et al.* 1998]. It is also reflected in charcoal analyses [Gammermann 1934] and molluscs (*Helix albestins*) analyses from the Late Mesolithic housing areas. During the climatic optimum in

the mid-Holocene temperatures differed for 1-2 C from the present ones and the total fall for 100 mm at the outmost [Savina, Khotinskiy 1982].

In accordance with the rhythm of climatic changes of the end of Early Holocene and in mid-Holocene typical vegetation zones were formed. In the north part of Crimea, steppes covered with a great variety of grasses developed [Matskevoy, Pashkevich 1973; Pashkevich 1982].

An increasing humidity in the mountainous part of Crimea caused the replacement of coniferous forests by deciduous trees growing in warm circumstances. Their composition is available in charcoal spectra in Late Mesolithic mountainous settlements [Gammermann 1934] and in pollen diagrams of the Shan-Koba site [Besusko, *et al.* 1998]. Characteristic species are as follows: oak, beech, maple and rowan. At the end of the Late Holocene in the mountainous part a typical vertical division of vegetation developed. There were forest-steppe zones, beech and oak forests and steppe on the north slopes [Rubtsov 1978:26-75]. The presence of these zones has been confirmed for the boreal and Atlantic periods by pollen analyses carried out by L. Besusko for Shan-Koba site [Besusko, *et al.* 1998]. The investigation of fauna in the Late Mesolithic settlements of the second mountain range gave similar results. They show a noticeable domination of forest fauna in relation to the steppe one [Vekilova 1971].

At the decline of the Early Holocene the process of fauna complexes forming in different areas of the peninsula came to the end. Forest fauna dominated in the mountainous part; boars, deer and roe deer are known from the Late Mesolithic and Neolithic settlements. Fauna of open or half-open biotops — aurochs, donkey and horse, is known only occasionally from the settlements which are situated in not far distance from the steppe zone (Alimovskiy Naves, Zamil-Koba II) [Vekilova 1971]. Aurochs, bison, tarpan and donkey represent the fauna of the Crimea plain. Their bones dominate in osteological material of the Mesolithic and Neolithic settlements from that area. Saiga antelope and deer are also found in small amounts [Matskevoy 1977].

2. THE LATE MESOLITHIC SUBSTRATUM OF THE MOUNTAINOUS CRIMEA NEOLITHIC

Typological and statistical analyses of the flint material, based on the Robinson's index with microliths as a base, and on comparison of all categories of artefacts allow to distinguish five Late Mesolithic and Neolithic cultures in Crimea [Yanevich 1995]. Three of them are known for a long time, they are: Murzak-Koba, Kukrek and Tash-Air cultures [Bonch-Osmolovskiy 1934; Vekilova 1966; Kolosov 1971; Telegin 1982; Yanevich 1987a, 1995]. The other two cultures are symptoms of new Late Mesolithic and Neolithic cultural phenomena that have been worked out during recent years — namely the Shpan and Alexeevo cultures [Yanevich 1987b, c, 1995].

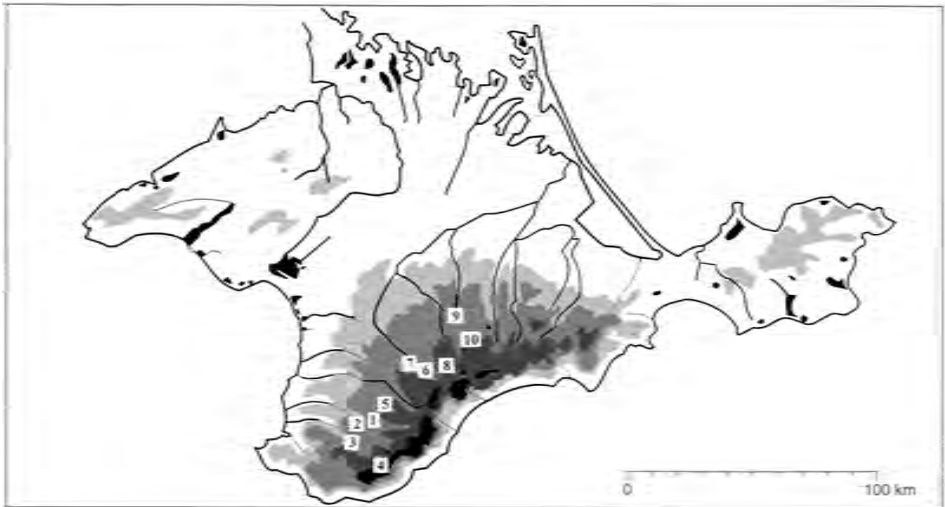


Fig. 1. The map of the Tash-Air culture sites. 1 - Tash-Air 1 ; 2 - Zamil-Koba 2; 3 - Alimovskiy Naves; 4 - At-Bash; 5 - Kaya-Arasy; 6 - Denisovka; 7 - Petrovska Balka; 8 - Shpan-Koba; 9 - Buran-Kaya 3; 10 - Adzy-Koba 2.

There are two different views on the genesis of the Tash-Air culture. According to most of the specialists that culture developed on the local Late Mesolithic substratum [Kraynov 1960:91-104; Formozov 1962:117; Shchepinskiy 1968:121-133; Kolosov 1971:129-135; Yanevich 1995]. Only N.N. Danilenko connected the origin of the Neolithic of the mountainous Crimea with the Kukrek culture [Danilenko 1969:189].

Comparison of the Late Mesolithic and Neolithic flint material shows genetic links between the Murzak-Koba and Tash-Air cultures. The Murzak-Koba culture is represented by the following complexes: Murzak-Koba [Bibikov 1940], Shan-Koba, layer 3 and 2, Fatma-Koba, layer 4, 3 and 2 [Bibikov 1966], Adzy-Koba 3 [Yanevich 1984], Laspi 7 [Telegin 1982], Shpan-Koba — the upper layer, Kara-Koba [Kolosov 1960] and others. Sites of that culture are situated exclusively in the mountainous part of Crimea. In the area of the second (mountain) range they occur in *abris*, on plateaux and on open coastal sites.

The Murzak-Koba culture is characterised by relatively highly developed blade technique. Pyramid cores prevail in its assemblages (51-89%; Fig. 2:49, 50, 77). There also occur cores with double platform (7-43%; Fig. 2:51), *pencil* cores (Fig. 2:52) are known as well (4%), they served to obtaining microblades.

Among the Murzak-Koba culture microliths geometric forms (72-100% of all the microliths), backed bladelets (7%; Fig. 2:70, 71) and truncated pieces (4%) should be mentioned. Occasionally, the Świder points (3%; Fig. 2:76) and the Kukrek inserts (3%; Fig. 2:37, 72) also appear. Among the geometric microliths trapezes

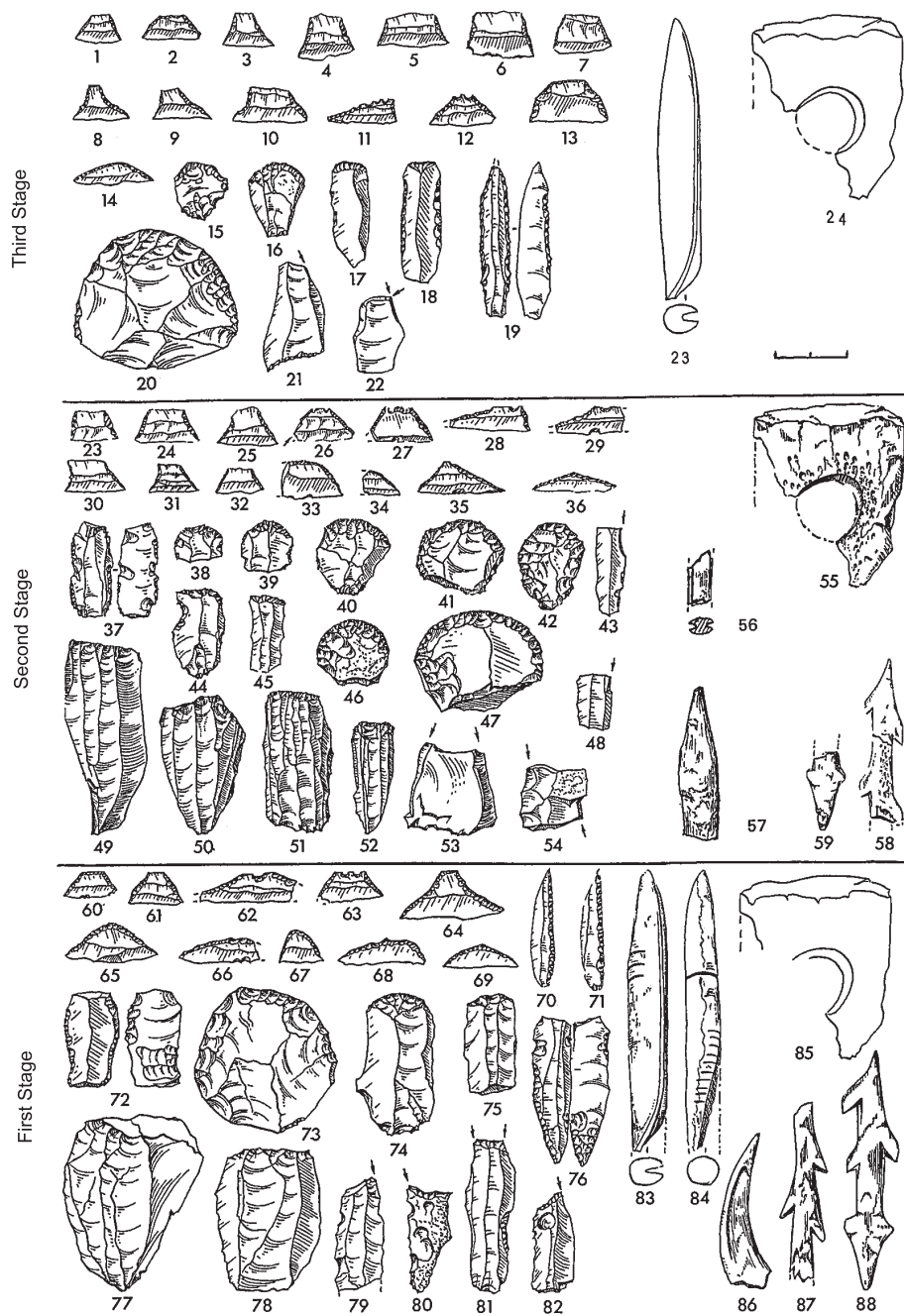


Fig. 2. The Murzak-Koba culture. Flint and horn tools.

prevail (81-11%); their main type is a symmetric trapeze with steep retouch (Fig. 2:7, 25-27, 60-61). The other type is formed by asymmetric trapezes, one-sided concave (Fig. 2:8-10, 30-31). A characteristic type of the Murzak-Koba culture are a very short, symmetric or asymmetric trapezes with notched retouch on upper base (Fig. 2:11, 28, 62), so-called Fatma-Koba trapezes. Segments occur not numerously (5-23%; Fig. 2:14, 68), triangles are rare.

In comparison with another tools, scrapers appear not in large amounts within the Murzak-Koba culture (7-13%). They are usually made of blades but also scrapers on a flake that prevail in certain assemblages, can be found. Straight and convex scrapers on a blade (Fig. 2:17-18, 44-45, 75) and scrapers on a flake (Fig. 2:15-16) should be also mentioned, whereas burins are even less numerous than scrapers (merely 6%). Dihedral burins and burins on snap prevail (Fig. 2:21, 43, 48); burins on truncation (Fig. 2:80-82) are less numerous and they belong to so-called Kukrek-type burins (Fig. 2:53-54). The characteristic feature of the Murzak-Koba assemblages is an occurrence of large amounts of blades with notched retouch (54-66%).

Among bone tools arrowheads, harpoons and frames [Bibikov 1977; Telegin 1982; Kolosov 1960] are represented. Bone arrowheads are homogeneous, they have circle or oval cross-section and are from 0,8 to 1,3 cm in diameter, their length is — judging from well-preserved specimens — about 7 cm. An arrowhead from layer 3 of Shan-Koba and the one from layer 3 of Fatma-Koba have an elongated groove (Fig. 2:83), and an arrowhead from Laspi 7 — two grooves (Fig. 2:56). The length of harpoons is 6-8 cm and their diameter — 0,7-1 cm. They have a symmetric row of teeth (Fig. 2:58-59, 87-88).

It is possible to distinguish three stages of the Murzak-Koba culture development on the basis of flint tools technology and morphology (Fig. 2). The first stage includes the Murzak-Koba, Shan-Koba (layer 3) and Fatma-Koba (layer 4) assemblages, the second one — the Fatma-Koba (layer 3), Adzy-Koba, Laspi 7, Shpan-Koba (layer 1-2 and 1-3) and the Kara-Koba assemblages, and the third — the Shan-Koba (layer 2), Shpan-Koba (layer 1-1) and Kukrek (layer 3).

3. GENERAL CHARACTERISTICS OF THE TASH-AIR CULTURE

Nowadays over 30 Tash-Air culture sites are known. They are as follows: Tash-Air 1 (layer 8-5a), Zamil-Koba 2 (layer 8-5); [Kraynov 1960], Adzy-Koba 2 [Yanevich 1984], At-Bash [Formozov 1962], Kaya-Arasy (lower layer); [Shchepinskiy 1962], Buran-Kaya 3 (layer 3), Denisovka [Shchepinskiy 1968], Zuya 1 [Vekilova 1951] etc. All of them are situated in the mountainous area of Crimea, in the second mountain range or on plateaux (Fig. 1). In the mountains they are mainly *abris*, some of them are open. The open sites are situated on the plateau, usually on the edge of it, in the vicinity of springs. Apart from the two areas — the mountainous one and the forest one-sites of that culture are not known.

Characteristic feature of the Tash-Air culture is a high level of blade technique. Blades derive chiefly from cores with single platform (40-74%, Fig. 3:17, 39-40; 4:33, 35; 5:31-32). Special types of cores with single platform are specimens with round flaking surface (Fig. 3:39; 5:32). Specimens with double platform represent the second type of cores (31-51%; Fig. 4:34; 5:30). Other types are rare.

The Tash-Air culture microlithic technique is represented by geometric microliths (89-93%) and backed bladelets (3-11%; Fig. 3:32; 4:10-14; 5:12). Among the geometric microliths trapezes play a significant role (65-77%). Medium high specimens with a flat retouch (Fig. 3:1-2; 4:1-7; 5:1-6, 10) should be stressed as the main type of the Neolithic trapezes of the mountainous part of Crimea. They differ in proportions and size of the flat retouch. High symmetric and asymmetric trapezes with steep retouch have also been registered. Segments are not so frequent (23-25%). Nearly all the segments are of medium height and symmetric, with predominance of specimens with a flat retouch (Fig. 3:4-5, 31; 4: 9). Nevertheless, segments with a steep retouch are frequent, especially in late inventories (Fig. 3:4; 5:8).

Scrapers are the most abundant group of tools (29-41% of all the retouched artefacts). There are scrapers, mainly straight ones, that constitute the predominant group (Fig. 3:10, 13, 33-35; 4:16, 18-23, 30-31; 5:13-23). Double scrapers are scarcely represented (Fig. 4:17; 5:24). Scrapers on a flake occur in the shape of massive semi-round scrapers (Fig. 3:16, 38; 4:24; 5:29). Burins do not form a large group (10%) and burin on snap is their main type (Fig. 3:14, 37; 4: 25-29; 5:26). The characteristic feature of the Tash-Air culture assemblages are borers, which appear in relatively large amounts (6%) in the shape of rather big blades with a steep retouch (Fig. 5:25, 27). Retouched blades are numerous, while the other forms of retouched tools occur in scanty amounts.

Bone and horn products serve as points, axes, knives, awls and pins frames. A bone tool from Tash-Air 1 (layer Va) [Kraynov 1960] seems to be very interesting; it differs from Mesolithic bone blades of Crimea and can probably be interpreted as a tool of a specific role. Horn frames are preserved mostly in parts; the only completely preserved specimen originates from Zamil-Koba 2. It is made of a split boar tusk [Kraynov 1960: Table 13:5, 7].

Pottery

According to the kind of admixture and ornamentation the Tash-Air culture pottery can be divided into some groups of different chronology. The first group includes the earliest, not numerous fragments found at Tash-Air 1 (layer 6) and

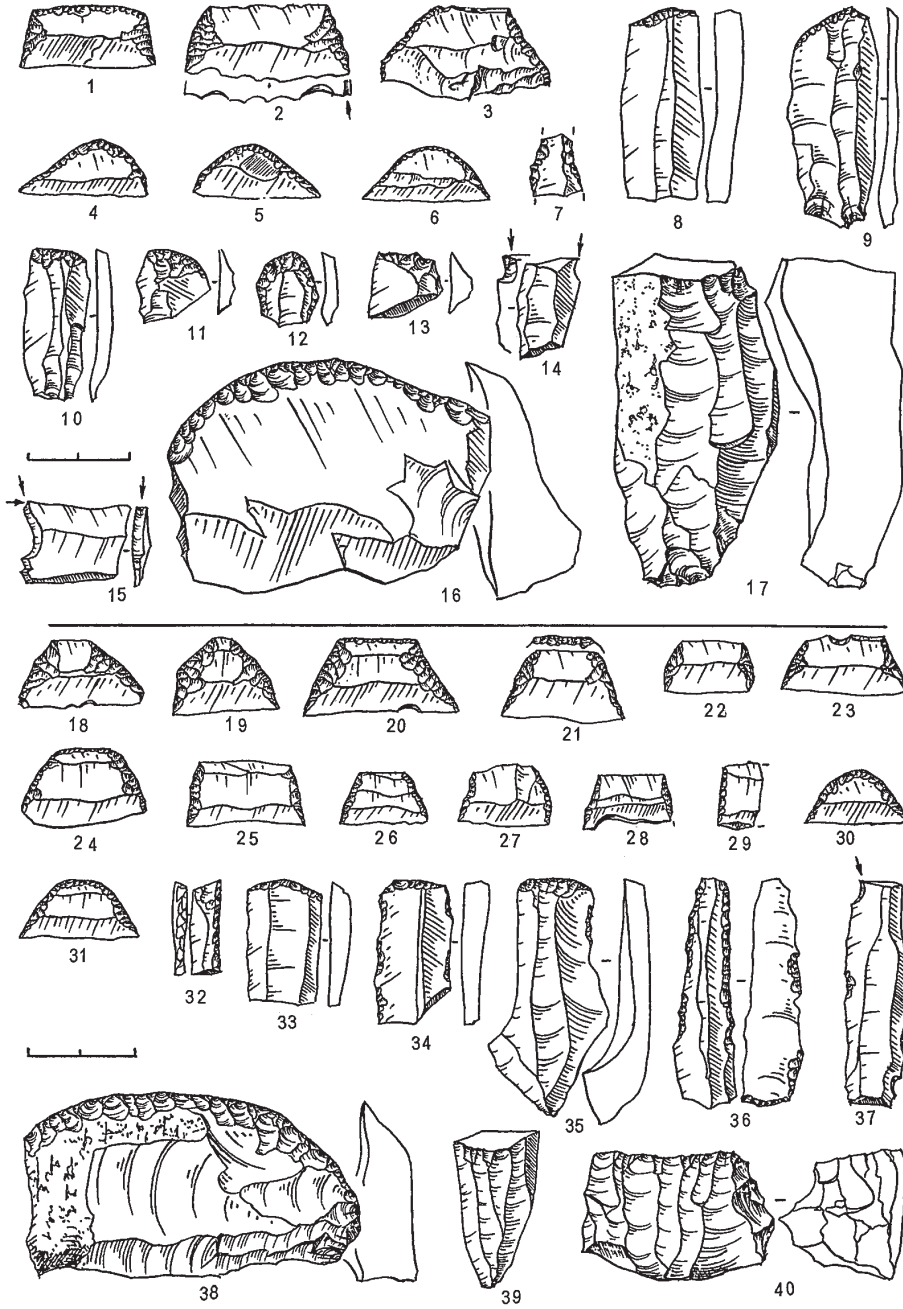


Fig. 3. Tash-Air 1. Flint tools from layer 8 (1-17) and 7 (18-40).

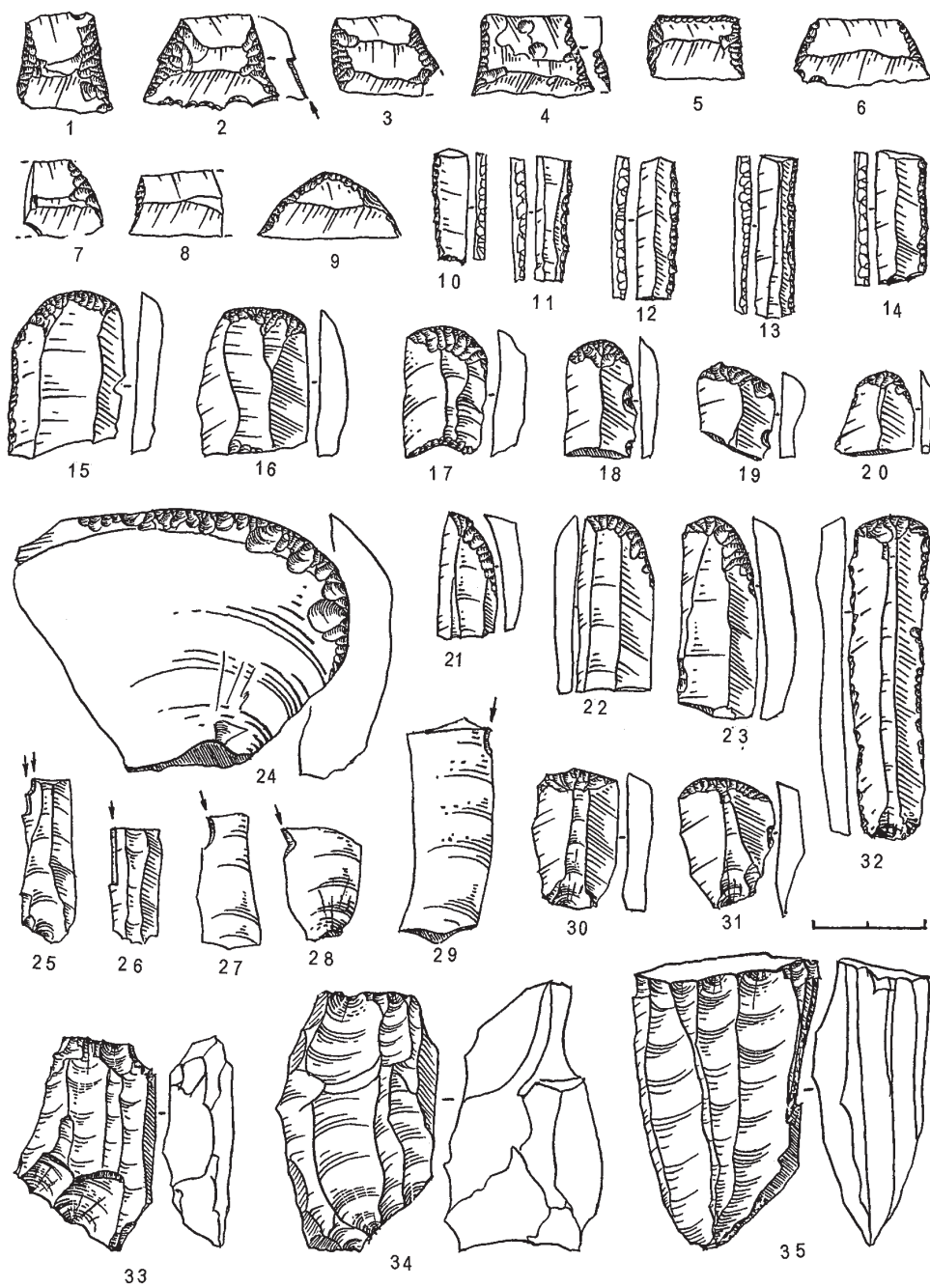


Fig. 4. Tash-Air 1. Flint tools from layer 6.

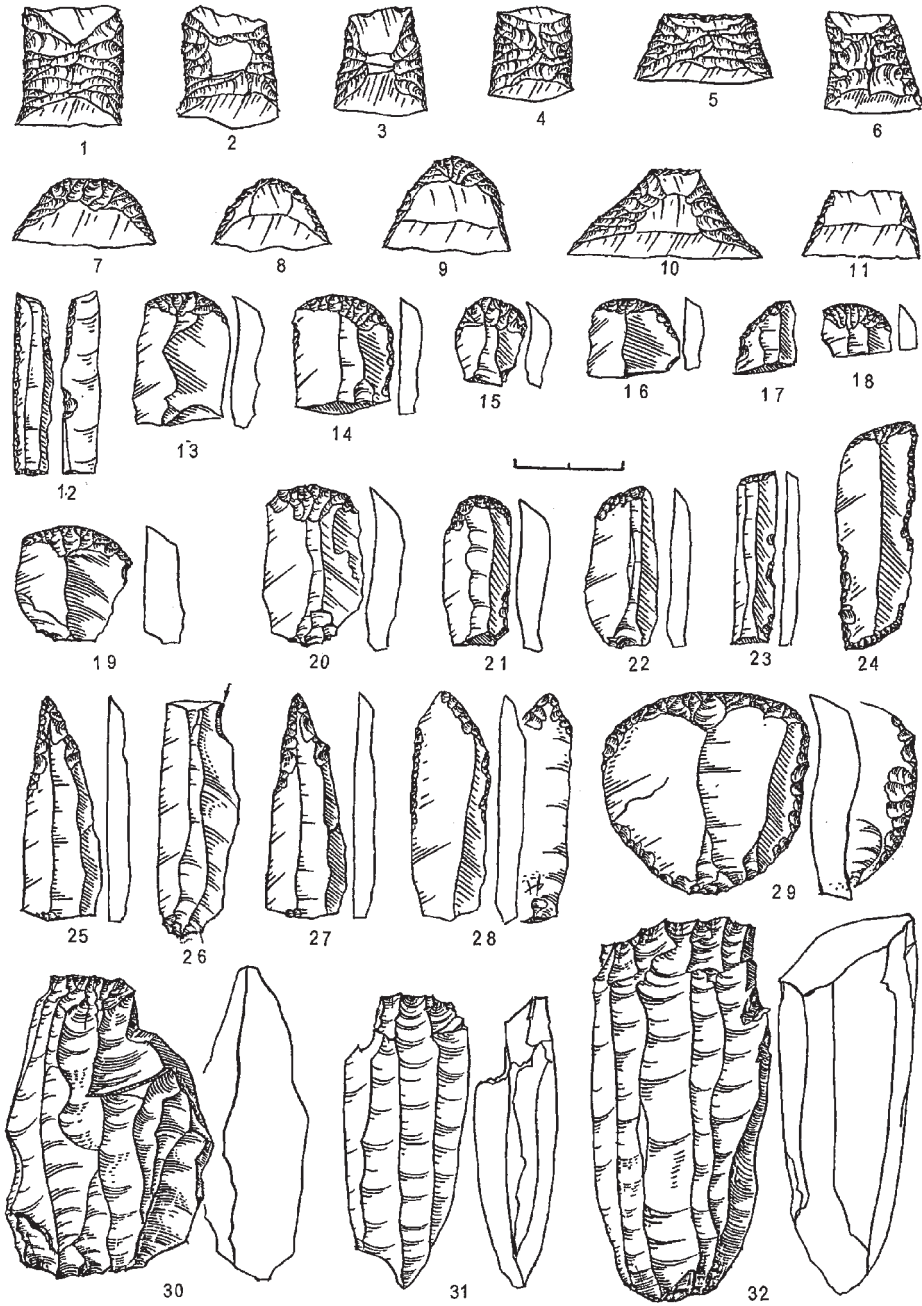


Fig. 5. Tash-Air 1. Flint tools from layer 5a.

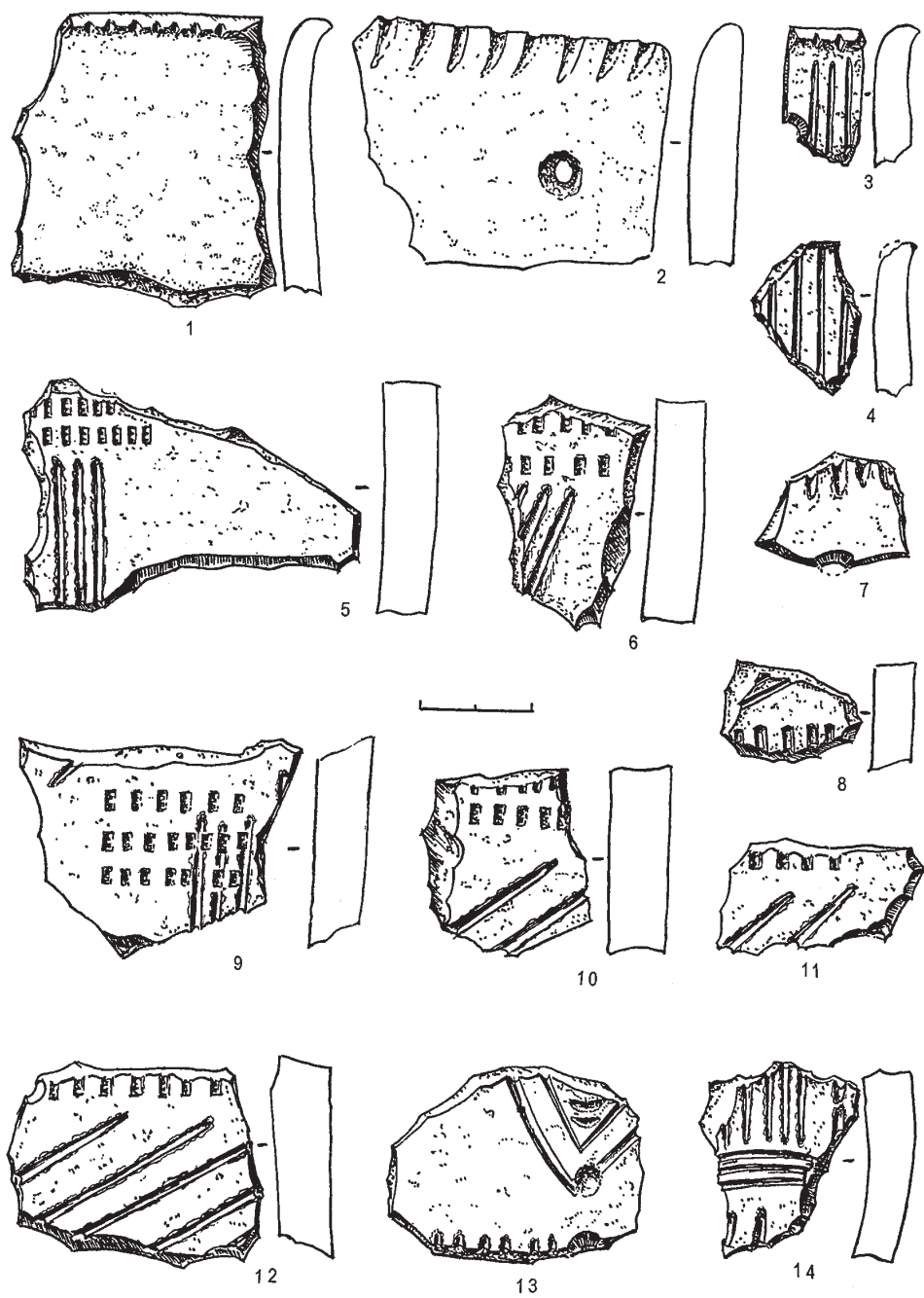


Fig. 6. Tash-Air 1. Pottery from layer 5a.

Zamil-Koba (layer 6) [Kraynov 1960:33-34], they are black or dark grey and have an admixture of fine sand. All the fragments are non-ornamental and come from vessel's body except one part of the bottom.

The second group comprises the pottery from Tash-Air (layer 5a), Zamil-Koba (layer 5) [Kraynov 1960], Kaya-Arasy (lower layer), At-Bash, Balin-Kosh [Fomozov 1962] and Denisovka [Shchepinskiy 1968] (Fig. 6:1-14). They are dark red, brown or dark brown fragments with carefully smoothed surface and they are parts of thick vessels with a fine admixture of crushed shells, limestone or quartz, ornamented with comb decoration or incised lines. These come from slightly profiled vessels with pointed bottoms, especially specimens found at At-Bash and Balin-Kosh. The closest analogy can be found between that pottery in Surska-Dnieper culture vessel forms [Danilenko 1969:189; Telegin 1971:6-7].

There are fragments from Tash-Air (layer 5a) and Zamil-Koba (layer 5; Fig. 7:1-13) that constitute the third pottery group. These have their yellow or brown surface smoothed. They come from thin, slightly porous vessels with an admixture of crushed shells or limestone. Decoration of geometric compositions is made with a long comb. The similarity to the Surska-Dnieper and the Azov-Dnieper culture pottery forms should also be stressed [Danilenko 1971].

Periodization and chronology

Because of scarce amounts of pottery the Tash-Air culture periodization is based on flint production development, with geometric microliths morphology taken into special consideration. Increasing number of trapezes with flat retouch in the Tash-Air assemblages allows establishing the relative chronology for sites of that culture. The role played by pottery as a determinant grows only in late phases of the Tash-Air culture.

Three stages can be distinguished in the development of the Tash-Air culture. The earliest is represented by Tash-Air site 1 (layer 8 and 7) and Zamil-Koba site 2 (layer 8 and 7). The characteristic features of flint tools assemblages are: flat retouch on about 1/3 of microliths number and not very large cores sizes. The assemblages do not contain pottery. Tash-Air 1 (layer 6), Zamil-Koba 2 (layer 6), At-Bash, Adzy-Koba 2 and others represent the second stage. Flat retouch is registered for almost half of microliths, single trapezes with surface completely covered with flat retouch also occur. The feature of the greatest importance for that stage is the appearance of pottery. There are Tash-Air 1 (layer 5a), Zamil-Koba 2 (layer 5), Kaya-Arasy (lower layer), Buran-Kaya (layer 3), Denisovka and others that form the third stage. Almost all of geometric microliths are covered with flat retouch, cores are massive.

The establishment of the absolute chronology of the Tash-Air culture is difficult because of the lack of radiocarbon dates. Lower chronological limit for the culture

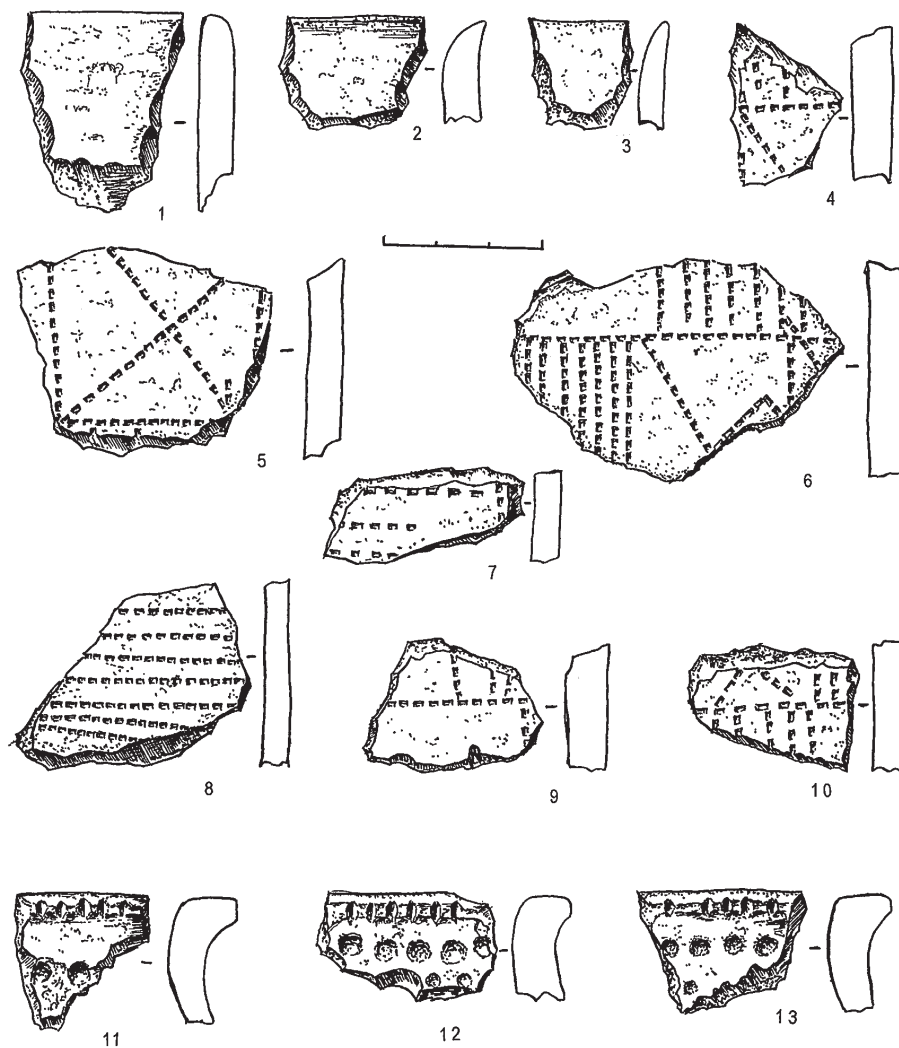


Fig. 7. Tash-Air 1. Pottery from layer 5a.

under discussion is given by ^{14}C dates of the second stage of the Murzak-Koba culture: for lower layer of Shpan-Koba $6240 \pm 150 \text{ BC}^*$ [Yanevich 1993] and for Laspi 7 series from 5500 ± 380 to $7150 \pm 130 \text{ BC}$ [Telegin 1982]. On the ground of conducted ^{14}C analyses it is possible to place tentatively the Tash-Air culture over a span from the end of the 6th to the beginning of the 3rd millennium BC.

* The author used an uncalibrated version of the ^{14}C chronology (Editor).

4. MESOLITHIC AND NEOLITHIC ECONOMY OF THE MOUNTAINOUS AREA OF CRIMEA

A forest animal hunting was the base of the Mesolithic and Neolithic economy of the area under discussion. The percentage of the forest animals reaches 85% of the osteological material of the Shan-Koba culture, 95% of the Murzak-Koba culture and 90% — the Tash-Air culture. As hunting in limited zones was more effective by means of bows and arrows, it caused the situation that they were the main equipment of the mountainous Crimea hunters. Direct evidence is provided by geometric microliths domination — used, as mentioned above, as arrowheads at Shan-Koba and Tash-Air cultures. Judging from ethnographical and historical analogies [Kroeber 1925; Kühn 1952; Lin Jao Chua, Cheboksarov 1961; Mellaart 1967] following methods were practised: approaching, chase, battue — in case of deer, approaching when hunting roe-deer, battue — in boar hunting.

In economy of the mountainous Crimea population land snail (*Helix albestins*) collecting was of main importance. At numerous settlements their shells were found. They constituted a main content of a cultural layer at Laspi 7 [Telegin 1982:90-92]. Collecting plants was obvious as well. Fishing was a component of economy but regarding scarce fish sources in Crimea, it played a second-rate role. Only at Kara-Koba [Kolosov 1960] an abundance of fishbone was found.

The annual economic cycle of the mountainous Crimea population was divided into the two main periods: winter period in the second mountain range zone and summer one on plateaux. These cycles guaranteed the best use of food supplies of the mountain area. The second mountain range area sites were used only in cold periods. About 90% of deer and roe deer concentrate in oak forests in wintertime. Settlement of the second mountain range area is evidenced by covering of bird, boar, roe-deer skulls with their horns cut as well as remains of wandering fish (*Salmo trutta*) in monthly cycles in cultural layers in winter. Winter character of that settlement is shown by usage of abris with south or west exposition and by relics of buildings — for instance at Shan-Koba and Zamil-Koba II [Bibikov 1977].

Mesolithic and Neolithic settlements are with no doubt connected with summer periods — in all probability — with summer migrations of wild animals to subalpine meadows and steppes. In summer there are 30% of the mountainous area on plateaux while in winter, for the reason that the covering of snow, only 5%. Boar bones lying (in monthly cycles) at Shan-Koba as well as the topography of the settlements indicate the settlement on plateaux. They are situated in open areas, entirely not sheltered from the winter winds, reaching a speed of 42 m/sec.

The development of gathering — hunting economy in the mountainous forest of Crimea is divided into three stages. In the first, the Early Mesolithic stage the economy was forming; it ended in the turn of Holocene. The second, Late Mesolithic stage (Boreal and the beginning of Atlantic period) was a full bloom time of that type of economy. Only the forest animals were the aim of hunting. As a result of spread of flora of warm area and molluscs, food-gathering became one of the leading

branches of economy. Discoveries of specialised tools (like harpoons), and fishers' settlements (Kara-Koba) show an increasing role of fishing. An intensification of economy led to strictly defined seasons — using natural sources on plateaux in summer and in the second mountain range in winter.

The third stage, the Neolithic one, in the Atlantic period, was a continuation of described type of economy. As in the previous case, a forest animal hunting was of the greatest importance. The percentage of animals hunted this way was 70-80% of all animals. Wide spread of bows and arrows is indicated by numerous geometric microliths at the Tash-Air culture sites. Food-gathering, as well as fishing, was still practised. Nevertheless, domestic animals bones (especially pigs) were found at the Neolithic sites of the mountainous Crimea [Kraynov 1960]. So, it was the Neolithic period when an integration of two types of economy took place, and it was breeding that played a second-rate role. That stage was a phase of consolidation — according to M. Zvebil [1986] and his model of farming — breeding economy formation.

5. SUMMARY

The investigations of the mountainous Crimea Neolithic period give the picture as follows:

1. The process of forming and development of the mountainous Crimea cultures had an autochthonic character. The Neolithic has been formed here on the basis of local Late Mesolithic. Flint production is a continuation of the Murzak-Koba culture production, and it also refers to the Neolithic bone and horn tools. The pottery shows influences from the north coast of the Black Sea, especially from the Surska and Azov cultures.

2. The type of Late Mesolithic economy was the base for the process of Neolithization of the discussed part of Crimea. The Neolithic economy is a further development of the economy of the Late Mesolithic hunters, gatherers and fishers of mountain forests.

Translated by M. Wojcieszek

ABBREVIATIONS

AR	– Archeologicke rozhledy, Praha.
AP	– Archeologia Polski, Wrocław.
AJPA	– American Journal of Physical Anthropology, New York.
CA	– Current Anthropology, Chicago.
KSIA	– Kratkiye Soobshcheniya Instituta Arkheologii Akademii Nauk USSR, Moskva.
KSIA (Ukraine)	– Kratkiye Soobshcheniya Instituta Arkheologii Akademii Nauk USSR, Kiev.
KSOGAM	– Kratkie Soobscheniya Odesskogo Gosudarstvennogo Arkheologicheskogo Muzeya, Odessa.
MASP	– Materialy po Arkheologii Severnogo Prichernomor'ya, Kiev.
MIA	– Materialy i Issledovaniya po Arkheologii, Moskva.
SA	– Sovetskaya Arkheologiya, Moskva.
SAA	– Soviet Anthropology and Archaeology, Moskva.
SE	– Sovetskaya Etnografiya, Moskva.

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