

BEYOND BALKANIZATION

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BALTIC-PONTIC STUDIES

V O L U M E 5 • 1998

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EASTERN INSTITUTE
INSTITUTE OF PREHISTORY
Poznań 1998
ISBN 83-86094-04-4
ISSN 1231-0344

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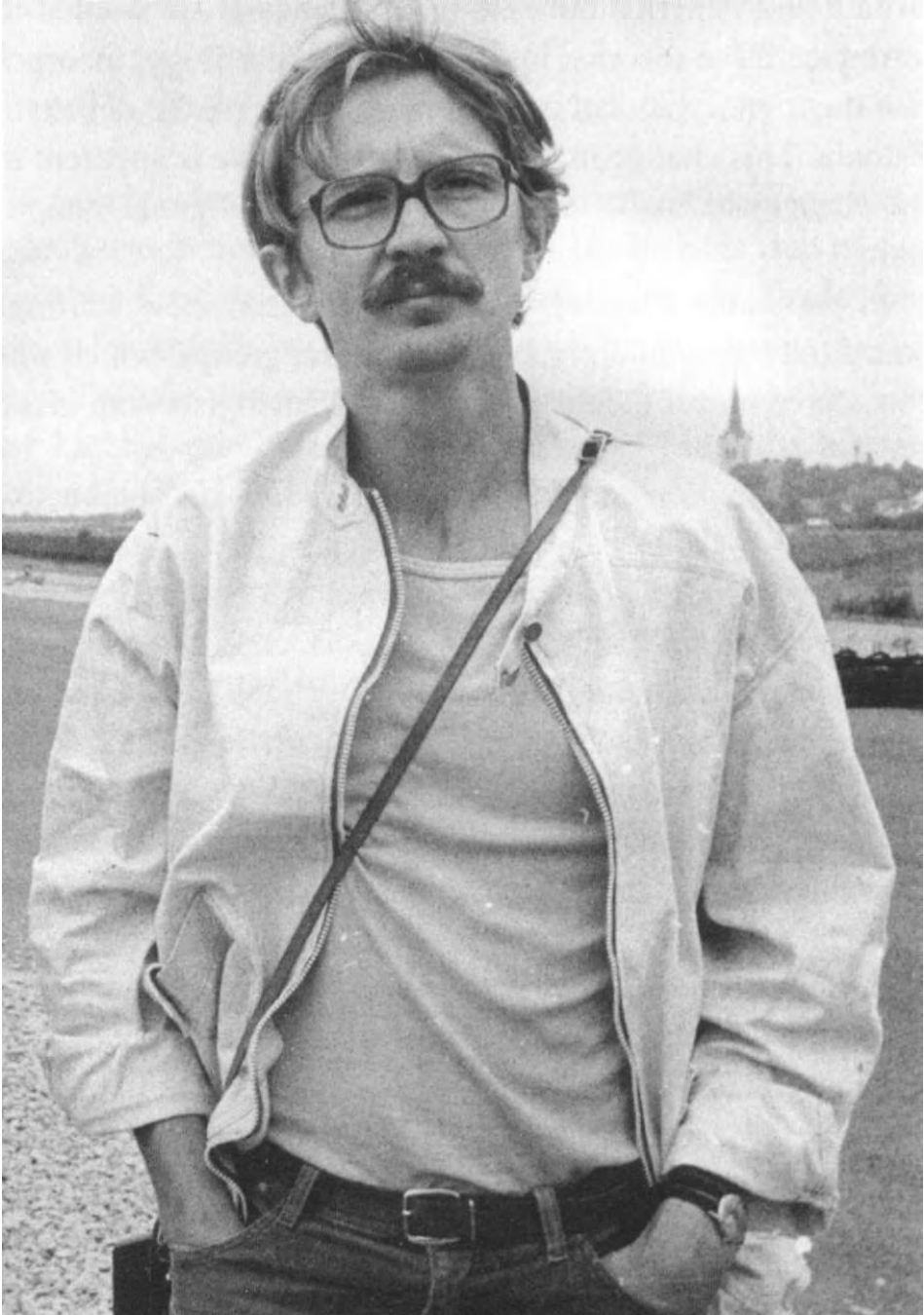
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Cover Design: Eugeniusz Skorwider

Linguistic consultation: Monika Wojcieszek

Printed in Poland

Computer typeset by PSO Sp. z o.o. w Poznaniu



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.

Dmitriy Telegin

MESOLITHIC CULTURAL-ETHNOGRAPHIC ENTITIES IN THE SOUTHERN UKRAINE: GENESIS AND ROLE IN NEOLITHIZATION OF THE REGION

As the reader may know, it has been a long time since the practice of making use of archaeological materials for the purpose of dividing relics into typological groups, cultures, ethno-cultural (culture-ethnographic) entities, etc., developed two methodological trends. According to the first of them, when analysing materials, researchers operate statistical data about all, without exception, finds in complexes, while in the second case only selected, the most distinctive artefacts are taken into account. Experience has proved that both of these methodological tendencies deserve to be applied in practice.

While undertaking culture-territorial division of the Mesolithic materials in the Ukraine, the author took the first trend, i.e., full statistical elaborating of the whole series of finds in complexes [Telegin 1982]. However, nowadays, we believe that the second research method will be more appropriate for defining culture-ethnographic entities in the southern Ukraine, with the following definition of lines (cycles) of the culture-historic developments within three contiguous periods Late Palaeolithic, Mesolithic and Early Neolithic. In such a case mainly geometric microliths, inserts of the Kukrek type and notched blades etc. should be considered.

You, dear reader, will be able to judge whether we have succeeded in that undertaking.

The issue of culture-territorial division of the Ukrainian Mesolithic relics has been a matter of substantial research efforts. Here we should mention, for instance, the works of P.P. Efimenko [1924], I.G. Rudinskiy [1928; 1931], M.V. Voevodskiy [1950], A.P. Chernysh [1975], A.A. Formozov [1959] and others. Those data, as well as recent research results, obtained by V.N. Stanko [1972], L.G. Matskevoy [1977], L.L. Zaliznyak [1991; 1995], S.P. Smolyaninova [1990], A.A. Yanevich and others, create rather sophisticated structure of culture-based classification of relics in different regions. First of all, two major culture-geographical zones or regions of remains are distinguished: (a) the northern forest-forest-steppe zone with micro- and macrolithic inventory, and (b) southern steppe or the Azov-Pontic zone. Within the latter complexes contain remarkable collections of microlithic artefacts but there are no samples of large double-edged macrolithic tools, like axes, hatchets, etc. The cultures of those zones differ in a number of other features [Telegin 1982].

Within the two regions, researchers distinguish a lot of Mesolithic cultures and types of relics.

In general, the Ukrainian Mesolithic cultures are dated to X-VI/V millennia BC* (by stratigraphical, typological, radiocarbon and other methods), although some early monuments (Shan-Koba, Osokorovka, Leontyevka, and others) have their roots in the Late Palaeolithic — Dryas 3, Allerød (see below).

Hereinafter, we will discuss only cultures of the steppe Azov-Pontic zone.

Generally recognised group of cultures of the steppe zone in Southern Ukraine and Crimea includes the Mountain-Crimean culture, Grebeniki and Kukrek cultures, as well as several separate types of relics, like Belyi Les, Syuren, Osokorovka-Rogalik, Mospino, Nenasytets and others [Telegin 1982]. In new research on the Late Palaeolithic-Mesolithic period in Crimea and the Azov region, the authors suggested somewhat different interpretation of the relics. For instance, they distinguished two or three cultures within materials of the Mountain-Crimean culture, i.e., the Shan-Koba, the Shan-Koba 4, and the Mountain-Crimean [Bibikov, *et al.* 1994], and of the Zimovniki type within the south Donets relics [Gorelik 1984]. The Osokorovka-Rogalik group — the Tsarinka type, the Rogalik-Tsarinka culture, the Osokorovka-Rogalik culture — distinguished by us, have also been regarded in different ways [Stanko 1982; Gorelik 1987; Olenkovskiy 1992; Zaliznyak 1995].

Due to uneven historical development and, primarily, obvious genetic differences in the composition of individual groups of ancient populations, a level of similarity of these cultures materials and types of relics is manifested to a different degree. Therefore, basing on analysis of typological composition of flint items (to be discussed below) we can distinguish three main entities or cultural development cycles which we call the Crimean-Belyi Les with segments, the Rogalik-Grebeniki with trapezes, and the Kukrek with special inserts of the Kukrek type [Telegin 1982, 1990]. These entities usually occupy separate territories (Fig. 1).

As follows from further description, the main attention in such a division is paid to analyses of geometric tools and some other specific items (inserts, notched blades), which, in such cases are the most informative sources. Other tools, including retouched blades, scrapers, etc., are far less helpful in terms of their typology and quantity. As follows from Table 1, these items comprise about the same percentage of relics of all three entities. That is 30% to 35% of retouched blades (in the south), 22% to 38% of scrapers, 10% to 12% of burins, 1% to 2% of backed bladelets, and 1% to 5% of other types of items. However, this is not true for quantities of segments, trapezes, notched blades, inserts of the Kukrek type, and truncated bladelets, which may substantially vary from 0.1 to 12.4% (Table 1).

Let us briefly discuss the composition of flint artefacts in the three groups.

The Crimean-Belyi Les entity includes monuments of the Mountain-Crimean culture of the early Shan-Koba type (Buran-Kaya, Shan-Koba, layers 6-5; Fatma-Koba, 6-5; Zamil-Koba, etc) and the late Murzak-Koba (Murzak-Koba, Fatma-Koba, layers 2-4, Laspi, etc.) [Voevodskiy 1950], as well as materials of the Belyi Les type of the North-Western Pontic region [Stanko 1976]. Among the main features of

* The author used an uncalibrated version of 14C chronology (Editor).

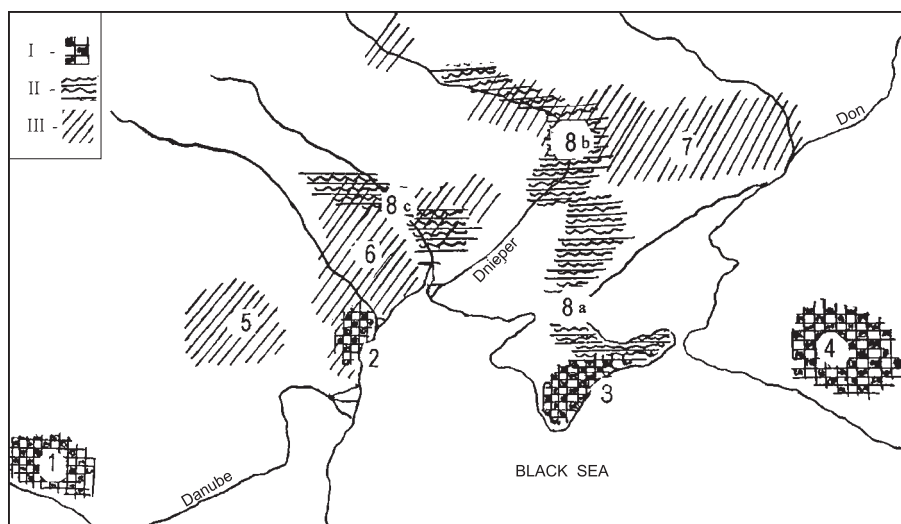


Fig. 1. Mesolithic cultural-ethnographic entities in the southern Ukraine and some neighbouring territories: (I) Crimean-Belyi Les, (II) Kukrek, and (III) Rogalik-Grebeniki. 1. Cuina-Turcului, 2. Belyi Les, 3. The Mountain-Crimean culture, 4. Sosruko, 5. Gilma, 6. Grebeniki, 7. Rogalik, 8. Kukrek and its local versions: (8a) Kukrek-Azov, (8b) Dnieper or Igren, (8c) Northern Pontic or Zanetovo.

this entity one should mention, first of all, substantial majority of segments among geometric microliths, particularly in the Late Palaeolithic and Early Mesolithic. The proportion of trapezes in the Crimean-Belyi Les entity is much smaller, with the exception of the Crimean Late Mesolithic artefacts (Murzak-Koba). For instance, in the lower (VI) layer of Shan-Koba segments constitute about 30% of all flint tools, and trapezes only 6%. If low symmetric triangles — a version of the segments — are counted among segments, the total proportion of this kind of artefacts will be much higher [Bibikov, *et al.* 1994].

Another peculiarity of these complexes is the presence of notched blades; in two other Mesolithic entities in the Ukraine they are represented to substantially less extent or are absent (Table 1; Fig. 2; 3).

Outside the Ukraine, the Crimean-Belyi Les culture extends further to the east (in the area of so-called Gubska and the Northern Caucasus groups [Bader 1965], and to the west (found among Epigravettian sites in Romania) [Paunescu 1970]. According to Paunescu's estimates, the Cuina-Turkului complex contains over 100 segment items, and only 5 trapezes. Segments also occur in materials of the Gubska group, particularly, at the Sosruko site, where segments and segment-shaped backed blades are the main kinds of microliths. [Formozov 1965; Zamyatnin, Akritas 1957].

Substantial similarity between materials of the Crimean-Belyi Les entity and finds of the Gubska group has been mentioned also by other researchers (N.O. Bader, S.N. Bibikov). However one should see noticeable differences between them,

Composition of Flint Tools in the Crimean-Belyi Les, the Rogalik-Grebeniki and the Kukrek entities

Tools	Entities cycles (lines) of development											
	Crimean-Belyi Les				Rogalik-Grebeniki				Kukrek			
	Mountain-Crimean culture		Belyi Les group	Average	Rogalik culture		Grebeniki	Average	Crimea	Dnieper	Northern Pontic region	Average
	Shan-Koba	Murzak-Koba			early	late						
(6)	(4)*	(1)	(11)	(3)	(5)	(4)	(10)	(1)	(3)	(3)	(7)	
Retouched blades and flakes	32.3	45.2	16.6	31.3	26.6	32.0	28.2	30.6	38.3	48.4	17.0	30.2
Notched blades	3.0	20.8	1.8	8.5	2.8	7.2	2.6	3	14.0	2.5	1	5.8
Inserts of the Kukrek type	-	0.9	-	0.3	-	0.5	-	1.1	13.7	5.5	8	9.1
Scrapers	10.8	10.6	45.4	22.3	38.1	32.5	50.6	38.7	7.7	27.3	54.8	30.3
Burins	17.9	7.9	8.6	11.5	21.8	13.5	0.6	12.3	18.2	7.1	7.3	10.3
Trapezes	3.9	6.0	1.1	3.7	4.6	10.5	15.6	10.2	0.3	1.4	1.0	0.9
Segments	25.6	0.6	10.9	12.4	-	1	-	0.3	-	-	0.1	0.4
Truncated bladelets	2.6	1.6	2.3	2.2	2.5	1.5	0.5	1.5	5.4	0.4	0.6	6.1
Backed bladelets	1.3	2.2	2.9	2.1	1.6	0.5	1.2	1.1	0.2	0.9	2.8	1.3
Other types	2.6	4.2	10.4	5.7	2.0	0.8	0.7	1.2	2.2	6.5	7.4	5.4
Total:	100	100	100	100	100	100	100	100	100	100	100	100

* the number of complexes analysed is given in the parenthesis

including the occurrence of so-called Natufian retouch in the Caucasus, as well as an obviously more significant role of backed blades here than in Crimea.

The majority of the Crimean-Belyi Les materials dates back to the Early Mesolithic, although its development is to be observed in late stages of the Mesolithic as well (Murzak-Koba in Crimea, Sosruko in the Caucasus).

Lately, A.A. Yanevich [1990] described the phenomenon of close culture-genetic links between the Mountain-Crimean culture, the Belyi Les type, and the Epigravettian monuments.

The Rogalik-Grebeniki entity occupies territories of the Ukrainian steppe zone further to the north. It includes relics of the Grebeniki culture and the Tsarinka type

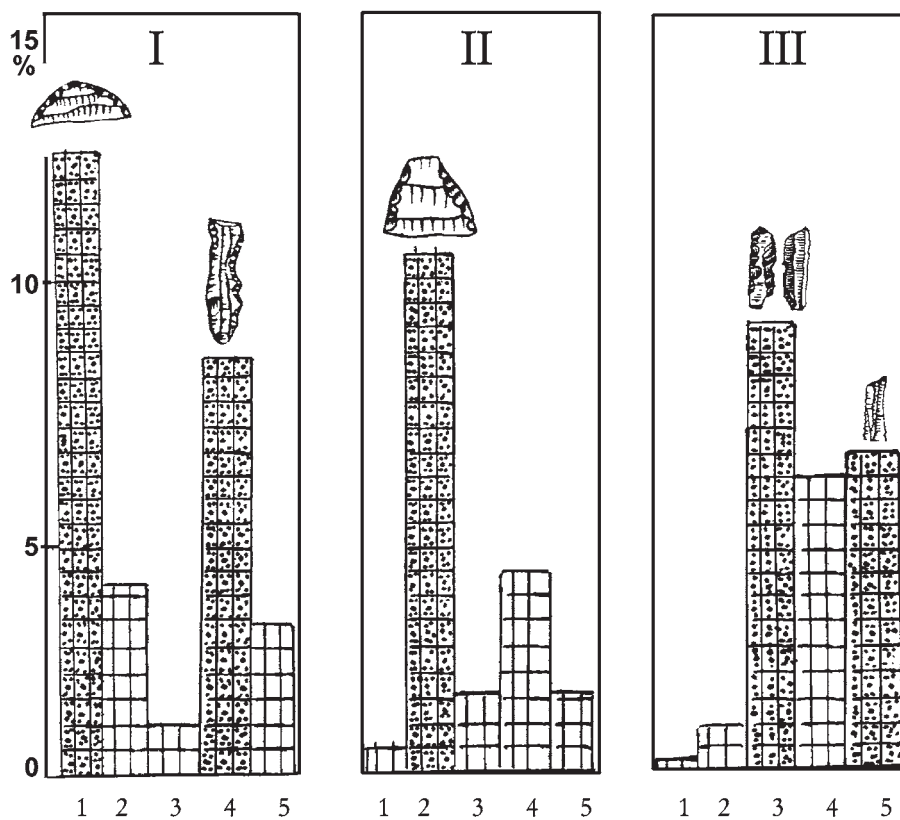


Fig. 2. Percentage of flint artefacts in the complexes of the Crimean-Belyi Les (I), Rogalik-Grebeniki (II) and Kukrek (III) entities: 1. Segments, 2. Trapezes, 3. Inserts of the Kukrek type, 4. Notched blades, 5. Truncated bladelets.

in the Northern Pontic area, as well as the Osokorovka, Leontyevka, the Surskoy island V, and the Nenasytets on the Dnieper, the Rogalik, the Mospino, the Zimovniki types in the Don and the Northern Donetsk area, which contain similar types of flint items. Flint complexes of these cultures and types of relics noticeably differ from materials found in contiguous groups, the Azov-Pontic region, in particular, the Crimean-Belyi Les and Kukrek.

The flint industry of the Rogalik-Grebeniki entity is characterised by the domination of trapezes among geometric microliths, usually of medium height or of elongated form. The occurrence of segments is practically unknown here (Table 1; Fig. 2; 4) or only individual items have been found (Vasilyevka-Progon). An exception from this rule is the Zimovniki site in the north-western Azov region, where A.F. Gorelik [1984] found several segment-shaped trapezes.

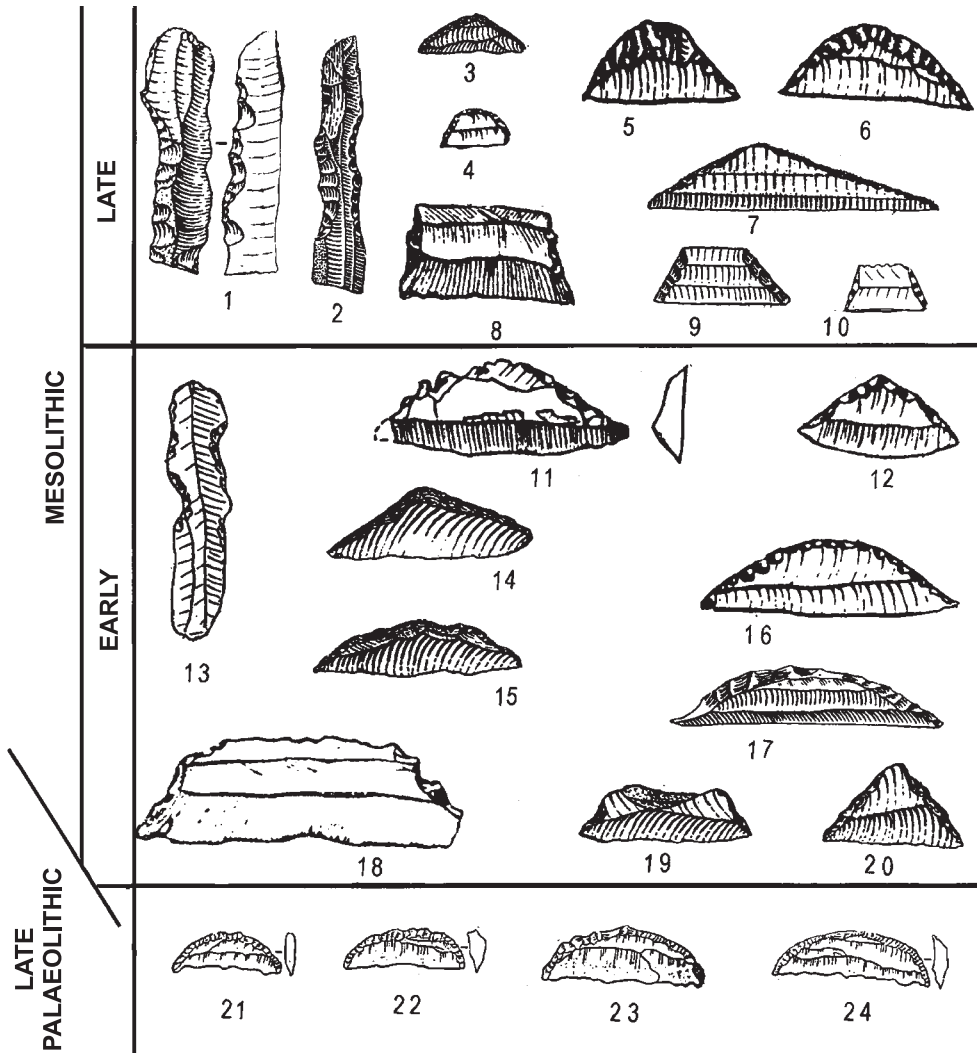


Fig. 3. Flint artefacts of the Crimean-Belyi Les entity (1-20) and the Late Palaeolithic of the north-western Pontic region (21-24). 1,9 - Laspi; 2,10,13,17 - Murzak-Koba; 3,7,14,15,19,20 - Fatma-Koba; 4 - Ala-Chuk; 8, 18 - Zamil-Koba; 2,5,6,16 - Alimovskiy Naves; 11, 12 - Belyi Les; 21-24 - Korpach.

There is a high percentage (10.2%) of trapezes in complexes of the Rogalik-Grebeniki entity, especially in Late Mesolithic complexes of Grebeniki, Nenasytets and Mospino. They are almost as common as segments in Crimea. Notched blades practically never occur in the Rogalik-Grebeniki complexes, as well as inserts of the Kukrek type.

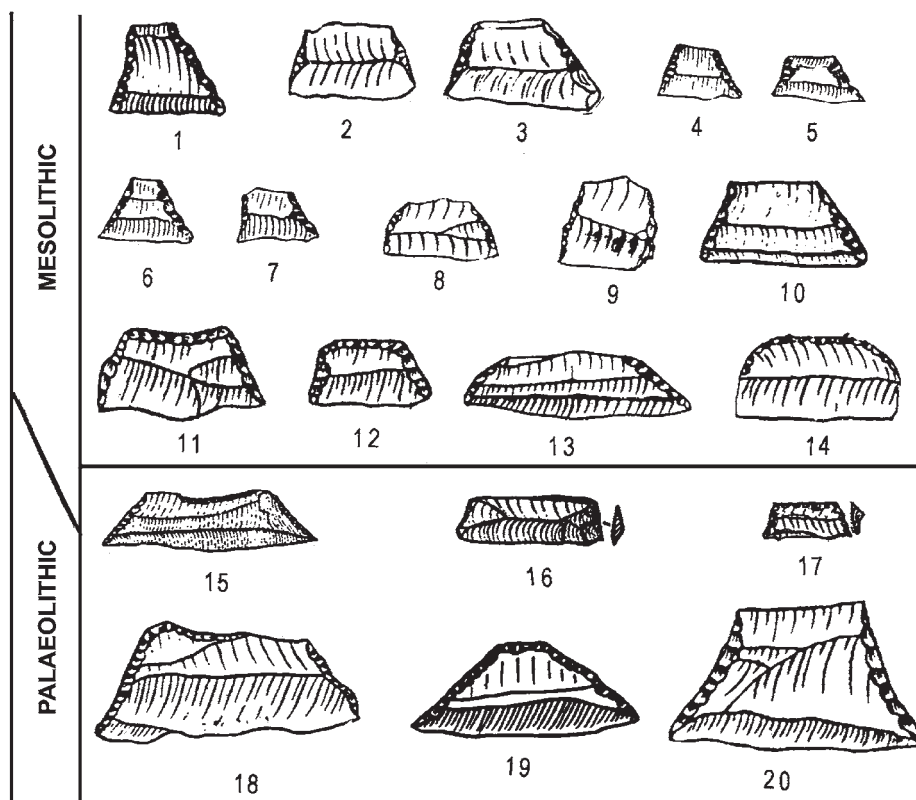


Fig. 4. Flint artefacts of the Rogalik-Grebeniki entity (1-14) and the Late Palaeolithic complexes of the Dnieper and the Donets areas (15-20). 1 - Rogalik 1; 2,3 - Mospino; 4-7 - Grebeniki; 8-9 - Lokhanska; 10 - Mirnoe; 11-12 - Tsarinka; 13 - Kantserka; 14 - Teplaya; 15,18 - Osokorovka; 16 - Rogalik 2; 17 - Leontyevka; 19 - Yamburg; 20 - Surskoy.

Therefore, the main artefacts among geometric microliths in complexes of the Rogalik-Grebeniki type are trapezes that differ substantially depending on the absolute age. In earlier complexes (Osokorovka III-c, Surskoy V, Tsarinka) they are usually bigger, elongated in shape, and often bear traces of retouch on the upper base (Fig. 4:11-14). In the later periods, trapezes become noticeably smaller and get the medium wide form, “standard” for this region; some tall trapezes also occur (Fig. 4:1-10).

Gilma in Romania is a site similar to Rogalik-Grebeniki that occurred outside the Ukraine.

It took the Rogalik-Grebeniki materials a long time to be developed, just like in cases of the Crimean-Belyi Les cycle. They emerged in the Late Palaeolithic (Osokorovka III-c, Rogalik 2), and they are well-represented both in the Early

Mesolithic (Tsarinka, Rogalik 1) and the Late Mesolithic (Grebeniki, Nenasytets, Mospino).

Complexes of the Crimean-Belyi Les and the Rogalik-Grebeniki cycles differ not only in main types of geometric microliths, but also in other features, for instance, in their formation techniques. In Crimea, segments and trapezes with retouched base are well represented, but not in Rogalik and Grebeniki. Meanwhile, the Osokorovka-type trapezes with retouched base are practically unknown in Crimea and Belyi Les.

Territorially, monuments of the Kukrek entity occupy a place between the Crimean-Belyi Les and the Rogalik-Grebeniki monuments, though the division between them cannot be defined clearly. In the Northern Pontic region, for instance, the populations of the Kukrek culture and the Grebeniki culture settled in the same area (Mirnoe). A similar phenomenon may be observed in the Lower Dnieper region.

The Kukrek flint industry differs radically from both the Crimean-Belyi Les and the Rogalik-Grebeniki. The Kukrek complexes, unlike the other ones, contain practically no geometric microliths. Meanwhile, original flint items, like inserts of the Kukrek type occurred; they did not appear in other cultures (Table 1; Fig. 5).

Hence, on the grounds of the above data, we may state the fact of existence of three major entities of the Mesolithic period in the Azov-Pontic area: the Crimean-Belyi Les, Rogalik-Grebeniki, and Kukrek. These entities, living in the same period in practically the same environmental conditions of the steppe zone of the Ukraine and Crimea represent, due to differences in materials, three groups of tribes. This conclusion becomes even more obvious if we consider the issue from the perspective of origins of the culture of these entities, and then, the reflection of each of them in the Neolithic cultures.

The issue of origins of cultures with segments of the Crimean-Belyi Les entity and, in particular, the Shan-Koba stage of the Mountain-Crimean culture is hardly a new one. It was the research topic in a number of works [Bonch-Osmolovskiy 1934; Bibikov 1966; Vekilova 1971; Yanevich 1990, and others]. Recently, this issue has been analysed in a separate chapter of a book by S.N. Bibikov, V.N. Stanko and V.Y. Koen [1994], which makes it unnecessary for us to be considered here in full.

Summing up the analyses of the data, including the most recent ones, we may argue that the principle factor in the formation of both the Shan-Koba and the Belyi Les industries was predominantly autochthonous development of the local Late Palaeolithic monuments of Crimea, the Dniester region and the Northern Caucasus. Above, we argued that the main diagnostic feature of monuments of the Crimean-Belyi Les entity was the occurrence of segments and low segment-shaped triangles. Therefore, when investigating the issue of genesis of the Mesolithic flint production technology, one should study the earliest stages of emergence of such tools. In this context, we should note that elongated segment-shaped backed blades with sharp retouch on the curved edge are rather broadly represented in the Late Palaeolithic cultures of Europe — the Epigravettian, etc. Sometimes they were found in large numbers in the Late Palaeolithic complexes of the area that was later inhabited

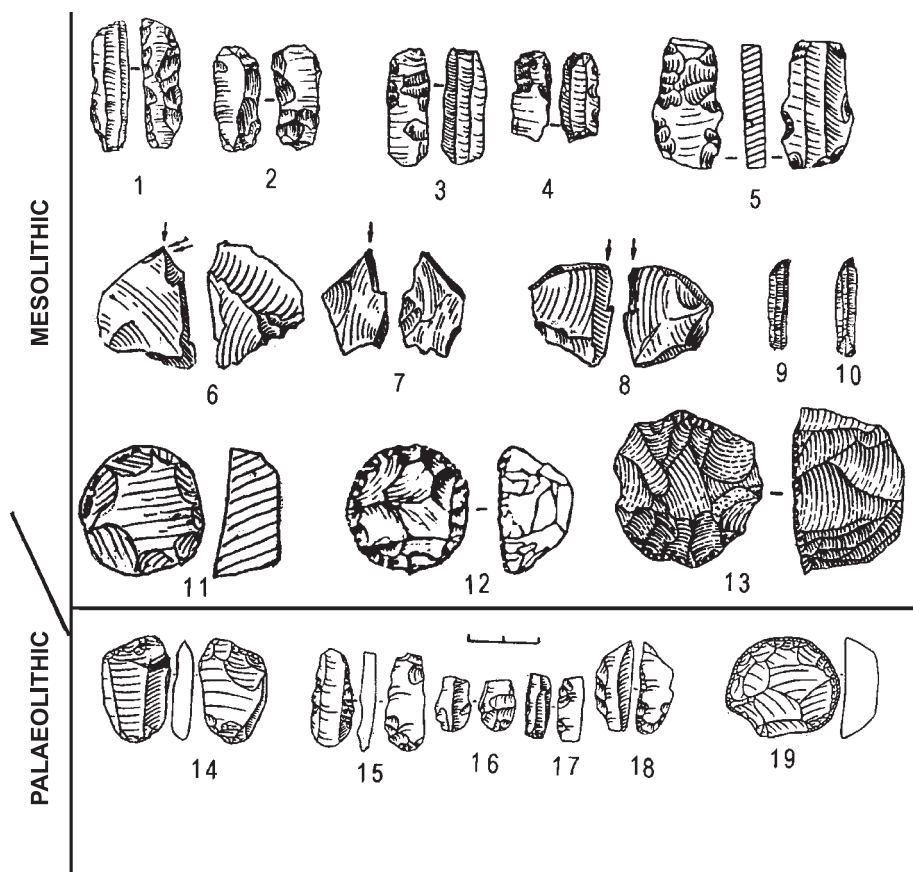


Fig. 5. Flint artefacts of the Kukrek entity (1-13) and the Late Palaeolithic complexes of the northern Pontic region (14-19). 1-4, 6-11 - Kukrek; 12 - Kizlevyi; 13 - Anetovka 1; 14, 19 - Dmitrievka; 15-18 - Anetovka 2.

by the population of the Crimean-Belyi Les entity. In this sense, it is important to point out the occurrence of segments that are typologically identical to the Shan-Koba ones, for instance, in the Syuren 1 complex, which allowed E.A. Vekilova [1971] to make a suggestion about autochthonous way of formation of the Crimean Mesolithic. Other renowned researchers of the Crimean Stone Age (G.A. Bonch-Osmolovskiy, O.N. Bader, D.O. Krainov, and others) expressed similar views.

As excavations at the Korpach site in Moldavia have shown, the segments, typical for cultures of the Crimean-Belyi Les entity, first appeared in the Dniester region in the Late Palaeolithic. The site is dated by radiocarbon method to 25 thousand years ago [Grigoriev 1983]. The whole series of such items were found there (Fig. 3:21-24).

According to G.V. Grigoriev, similar materials are characteristic of other territories of Europe as well, particularly Poland and Italy. The data that cannot be ignored suggest that genealogical roots of the Crimean-Belyi Les monuments, with segment as a distinguishing kind of microliths, go deep into the local Palaeolithic cultures, represented here by artefacts of Syuren 1 in Crimea or Korpach in Moldavia.

The occurrence of the whole series of segment-like geometric microliths allows looking at the question about the time of appearance of the first trapezes in the Azov-Black Sea region from a new point of view. The focus is, primarily, on so-called Osokorovka trapezes which have been represented at a number of sites, including Osokorovka 3 b, Rogalik 2, Leontyevka, Ivashkov, Tsarinka, etc. These artefacts bear some resemblance to rectangular and trapezes knives of the Magdalenian and the Hamburg cultures of Western Europe [Schwabedissen 1944] where they are referred to the Late Palaeolithic. However, researchers did not have a single opinion about dating complexes containing such trapezes. Some authors, like, for instance, P.I. Boriskovskiy, A.P. Chernysh, D.Y. Telegin regarded them as belonging to the Early Mesolithic, while others, including I.F. Levitskiy, V.N. Stanko, S.A. Dvoryaninov, L.L. Zaliznyak, N.P. Olenkovskiy, I.V. Saposhnikov and others argued that these finds belonged to the Palaeolithic. Taking into account the above material, and considering stratigraphical conditions where some complexes with the Osokorovka trapezes are found in rather early layers of loess, it is possible to suggest that trapezes emerged in the Late Palaeolithic period. In such terms the most representative are the conditions of cultural horizons occurrence at the Osokorovka site [Levitskiy 1949], where a layer with trapezes (III-c) was found in about 3 meters deep deluvial loams on the depth of about 3 meters. Remarkably, above the III-c horizon, also in deluvial loams (2 meters deep) a researcher found two more poor Mesolithic horizons (I, II), and above that there was an almost 1.5 meter layer under a fine layer of humus (Fig. 6). According to geologists, the Osokorovka loess loam belongs to the level of so-called Black Sea loess [Veklych 1968], the emergence of which is dated back to the Late Palaeolithic, which is probably directly linked to defining dates and archaeological horizons in those layers. A similar situation of the occurrence of a culture layer containing Osokorovka trapezes in the loam over 4 meters deep has been described by N.P. Olenkovskiy [1991:163] and in Leontevka. Due to these observations their author dates the monument to the Allerod.

Therefore, the beginning of formation of early cultures of the Rogalik-Grebeniki entity, as well as of the Crimean-Belyi Les entity, may be also dated back to the Late Palaeolithic.

Monuments of the Kukrek entity also have ancient roots going deeply to the Palaeolithic.

Concerning this issue, we have already suggested that the process of formation of the Kukrek monuments could be substantially influenced by traditions of the Late Palaeolithic Europe [Telegin 1982]. Later on, this hypothesis has been fully supported and developed in the works of V.N. Stanko [1982] and S.P. Smolyaninova [1990]. Apparently, nowadays it should be argued that the Kukrek (Anetovka)

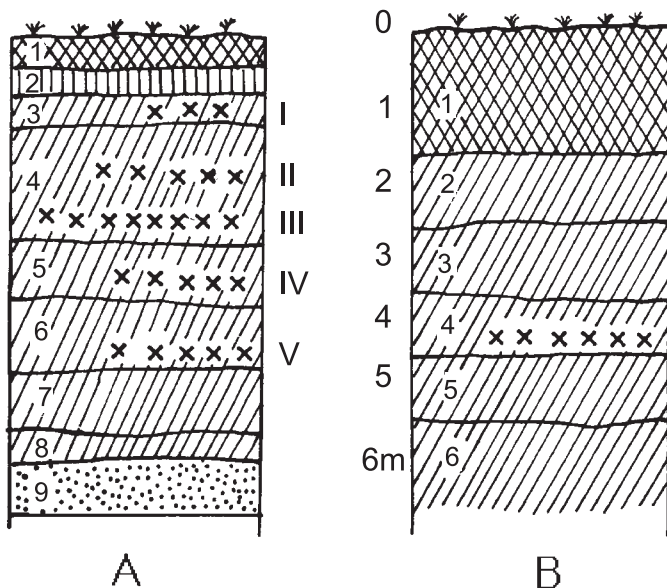


Fig. 6. Stratigraphic conditions of the occurrence of the Late Palaeolithic layers at the sites of Osokorovka (A) and Leontyevka (B). 1. Soil, 2. Loess. 3-8. Layer of loess-like loam, 9. Sand, I-V - archaeological layers.

monuments in the Southern Bug region developed mainly on the basis of the local Late Palaeolithic monuments, where S.P. Smolyaninova [1990: 94] outlines their following genetic line: Sakhaidak 1 — Anetovka 1 — Abuzova Balka — Konetspol. Meanwhile, the Sakhaidak cultural layer is dated to over 20,000 years ago by the radiocarbon method, while Abuzova Balka and the Konetspol belong to the Late Mesolithic. The adequacy of such a genetic line of development from the Palaeolithic (Sakhaidak — Anetovka) to the Kukrek culture is supported by a number of common features. They include the occurrence of typical round scrapers, blades with flat retouch on the bottom face and, in particular, the so-called chisel tools among their flint inventories.

These artefacts — the purpose of which is not totally clear — are related to the inserts of the Kukrek type in terms of technology of their manufacturing with a help of flat retouch. Typologically similar types of bone points with grooves for inserts also may follow more or less direct line of genetic development from the Late Palaeolithic monuments to the Kukrek culture.

However, this does not bring us to conclusion that the genesis of the Kukrek culture should be also searched for in the Southern Bug region. Obviously, the issue is far more complex, as the Southern Bug is not the only area where the Palaeolithic sites close to Sakhaidak have been found. They have also been found

in the Azov region: for instance, Muralovka, Zolotovka [Praslov 1972; Krotova 1985]. The Muralovka layer is dated by radiocarbon method to 18,000 years ago. In addition, N.P. Olenkovskiy [1989] studied a number of the Palaeolithic sites in the Lower Dnieper region: Novovladimirovka, Pervomayevka, Lyubimovka III and others, characterised by the occurrence of up to 18.5% of chisel-shaped tools with flat retouch on the bottom face and round scrapers (defined by the author as “nucleus scrapers”).

A site containing chisel-shaped artefacts, the Siyuren 2, was discovered in Crimea a long time ago.

Therefore, the above may bring us to at least two conclusions: the first, the area of formation of the Kukrek culture could include almost the whole Northern Pontic region and Crimea, and, the second, genetic roots of this cultural phenomenon, as well as of both of the afore-mentioned cultural-territorial entities, originate from the Late Palaeolithic.

In order to complete the study of the three Mesolithic cultural-ethnographic entities described above, we still have to consider briefly the role of population of these cultural phenomena in the Neolithization of the region. According to established experts' views, the principle features of the Neolithic cultures of Eastern Europe that make them distinct from the local Mesolithic is the occurrence of ceramics in the complexes and the emergence of food-production. Meanwhile, the Early Neolithic tools made of flint, stone and other materials often retain Mesolithic or close forms. This factor, as well as some other features of continuity in cultures of the transitional period from the Mesolithic to the Neolithic allows us to follow genetic development lines of cultures of the Mountain-Crimean-Belyi Les, the Rogalik-Grebeniki and the Kukrek entities into the local Neolithic.

Obviously, the effort to trace genetic connections between cultures of different epochs is a difficult task, and positive results are by now not obtainable in all cases. Hence, for instance, from a number of cultures and entities considered above, we can trace features of genetic continuity in the transition from the Mesolithic to the Neolithic only in some cases, including transitions between:

- (a) flint industries of the late stage of the Mountain-Crimean culture (the Murzak-Koba stage) and the local Crimean Neolithic culture of the Tash-Air type;
- (b) industry of the latest monuments of the Rogalik-Grebeniki entity (Nenasytets) and the oldest sites of the Dnieper-Donets culture, and
- (c) complexes of the Dnieper version of the Kukrek culture (Igren) and the Surska culture.

In Crimea, an evident example of a clear tradition in the development of the flint technique in the course of transition from the Late Mesolithic to the Neolithic may be observed in materials of the multilayer site of the Tash-Air, excavated by D.A. Kraynov [1969]. There, in reliable stratigraphical conditions under a shelter the researcher separated ten cultural horizons, including three lower (IX-VII) pre-ceramic layers, and five upper layers that contained pottery. In this particular case we may be interested, first of all, in the late Mesolithic layer VII that contains no ceramics, and in the successive layers VI and Va where it appears for the first

time. The finds represent pottery fragments of the Early Neolithic vessels with sharp bottoms and impressed ornament. Similar ceramics has been found in Crimea in many other places, including Zamil-Koba 2, Ost-Bash, Kaya-Arasy (lower layer), Shan-Koba (upper layer) and others.

Although the sixth layer of Tash-Air contains only 11 fragments of such vessels, in layer Va their number grows to about 300.

As it was mentioned before, in the study of the process of transformation of the Late Mesolithic culture into the Neolithic culture, the prime importance is given to flint artefacts that occur in the Mesolithic as well as in the Neolithic layers of the site. Remarkably, in many cases the types of artefacts and technologies of their manufacturing are very similar in the Mesolithic and the Neolithic layers. As an example, we will compare geometric microliths — trapezes, segments and triangles that were found in about the same quantity in all three adjacent layers of Tash-Air: 12 in layer VII, 9 in layer VI, and 11 in layer Va. The direct typological and technological continuity in development of those tools from the Mesolithic (layer VII) to the Neolithic (layers VI-Va) is evident, particularly in types of segments and segment-like triangles (Fig. 7), as D.A. Kraynov pointed out. The trapezes in all three layers are typologically identical as well, although some changes may be observed in their development, including the occurrence of trapezes with a flat retouch of edges layer VI (Fig. 7). For Crimea one may refer to other examples of direct succession in development of geometric microliths that accompanied the transition from the Mesolithic to the Neolithic. We mean here materials of another multilayer site, Zamil-Koba 2, where the lower horizon 7 and 8 contained the Mesolithic finds, while above (horizon 6-5) the Neolithic pottery of the Tash-Air type was found [Kraynov 1938].

In our view, the above observations of continuity in the development of the flint industry that accompanied the transition from the Mesolithic to the Neolithic clearly prove the important role of the Mesolithic of the Mountain-Crimean culture population in the formation of a local Neolithic culture of the Tash-Air type in Crimea.

The analysis of relevant materials from the steppe Ukraine points to the fact that similar processes of autochthonous development of cultures during the transition from the Mesolithic to the Neolithic also occurred on the north, in the areas populated by the Mesolithic tribes of the Rogalik-Grebeniki and the Kukrek entities. The early Neolithic is represented here by monuments of three cultures: Surska, Dnieper-Donets and Bug-Dniester.

The richest materials for the solution of the issue of transformation of the Late Mesolithic cultures in the Neolithic ones may be found on the Lower Dnieper. In this area investigated Mesolithic monuments include the Igren settlements of the Dnieper version of the Kukrek culture, and a number of settlements from the latest stage of the Rogalik-Grebeniki entity of the Nenasytets type, including Vasilyevka and the Lokhanska island. Other well-represented Neolithic settlements of the Surska culture in the Dnieper region include the Surskoy island, the Shulayev island, Strilchaya Skelya, and settlements of the Dnieper-Donets culture, including the Volchek, the Sabachki, and the Vovnigi.

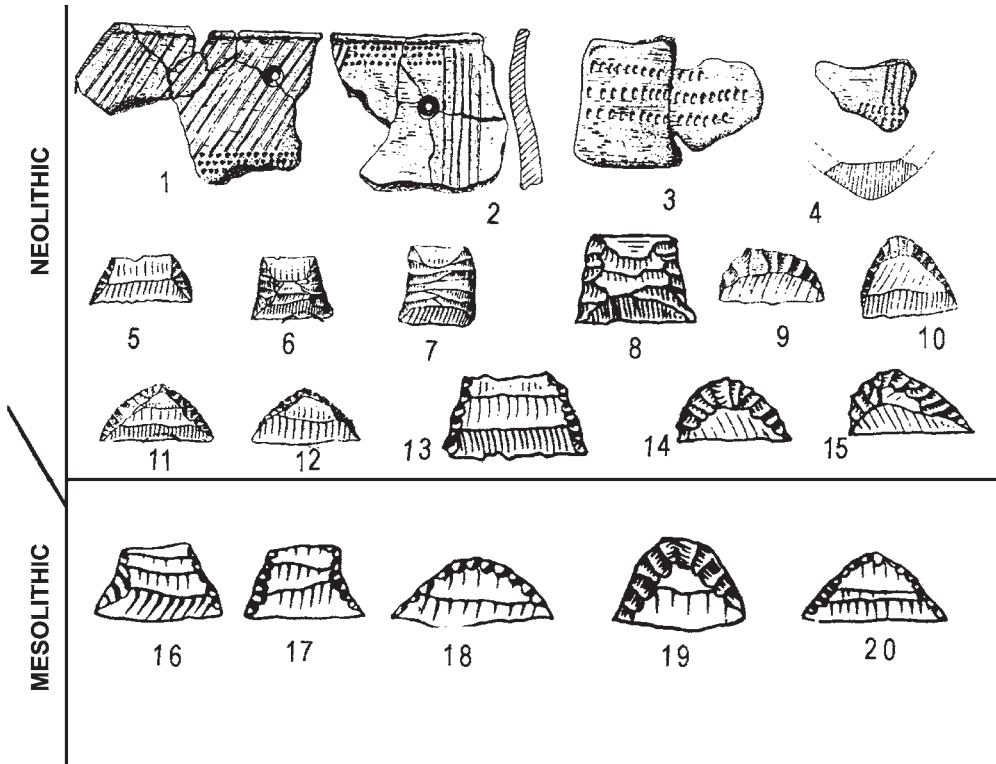


Fig. 7. Comparative table of geometric microliths from the Late Mesolithic (16-20), Neolithic (5-15) and from the Crimean Early Neolithic assemblages with pottery (1-4). 1,2,8,13-15 - Kaya-Arasy; 3 - Zamil-Koba 2; 4,7,9,10 - Tash-Air, layer Va; 5 - At-Bash; 6,11,12 - Tash-Air, layer VI; 16-20 - Tash-Air, layer VII-VIII.

Let us try to determine genetic links between the Mesolithic and the Neolithic cultures relying on samples of flint materials of the Surska culture compared with artefacts from the Igren settlement.

In general, the Surska culture is represented by microlithic cores and small blades. Retouched blades occupy an important place among tools. According to all these indicators, flint artefacts of the Surska settlements, in particular, of the Shulayev and the Surskoy islands display considerable similarity to materials of the Kukrek culture site Igren, in respect of quantity and typology. The same is true about other kinds of artefacts: scrapers, knives, etc. In particular, it is important to stress the occurrence of tall scrapers in the Igren and the Surska series of the Lower Dnieper region — a form that is not typical for any other culture type in the region (Fig. 8). Monuments of the Igren and the Surska types are genetically linked also by the occurrence of the inserts of the Kukrek type that are practically absent

in all other Mesolithic and Neolithic cultures. On the other hand, both the Kukrek and the Surska cultures are characterised by almost total absence of trapezes and other geometric microliths — that is a fact that may also point out to identical ways of development of these cultures and their genetic similarity.

Important data for the solution of the problem of historic development of the Kukrek culture are also obtained through comparative analyses of bone items, well represented both in the Igren complexes and among the Surska artefacts. Typologically they are rather similar. They represent similar types of axes-hatchets made of bone, and hoes-hammers made of deer horn, chisels of boar fangs, bone points, knives, awls, sewing needles, etc. At least two of three types of dart points found at the Igren site have direct analogies in the Surskoy complex. Many common features are found between fishing tools of the complexes under consideration (Fig. 8). The technology of bone processing in the Igren was close to that of the Surska culture.

In our view, all the above data indisputably point out to genetic relation between the Dnieper version of the Kukrek culture and the Early Neolithic monuments of the Surska culture which together form a common line (cycle) of cultural development of two immediate epochs: the Mesolithic and the Neolithic, the line that originates from the Late Palaeolithic age.

Apparently, this line of direct transformation of the Kukrek culture into the Neolithic one in the steppe Ukraine was not unique. Similar features are observed in the course of comparative analyses of flint materials found at sites of the Nenasytets type and settlements of the Dnieper-Donets culture. They are linked by two features: firstly, both contain significant numbers of typologically identical trapezes and, secondly both contain no inserts of the Kukrek type. However, other — rather similar — collection of flint artefacts does not contradict the conclusion about genetic relations between late monuments of the Rogalik-Grebeniki community and the Dnieper-Donets culture.

In fact, we raised the issue of an important role of the Late Mesolithic monuments like the Nenasytets, the Donets and the Dnieper-Pripets (Rudoy Ostrov) cultures several times before [Telegin 1966; 1968:28], therefore, it is hardly appropriate to discuss this question here again.

Summing up the study of the Mesolithic monuments of the Azov-Black Sea region of Eastern Europe, one may ascertain — as it was mentioned above — the occurrence of three main culture-ethnographic groups of population: the Crimean — Belyi Les with segments, the Rogalik-Grebeniki with trapezes and the Kukrek with inserts, burins and scrapers of the Kukrek type. Origins of formation of all those entities bring us to the Palaeolithic. In our opinion, the analysis of flint artefacts allows to follow further developments of Late Mesolithic cultures of the region that created the basis for the Neolithic cultures, including the Tash-Air type in Crimea, the Surska on the Lower Dnieper and the Dnieper-Donets culture in the steppe and forest-steppe parts of the Ukraine.

Finally, we would like to suggest that the above picture of the occurrence of three genetic lines (cycles) of cultural development during the transition from the Palaeolithic to the Mesolithic and the Neolithic represents just a general scheme

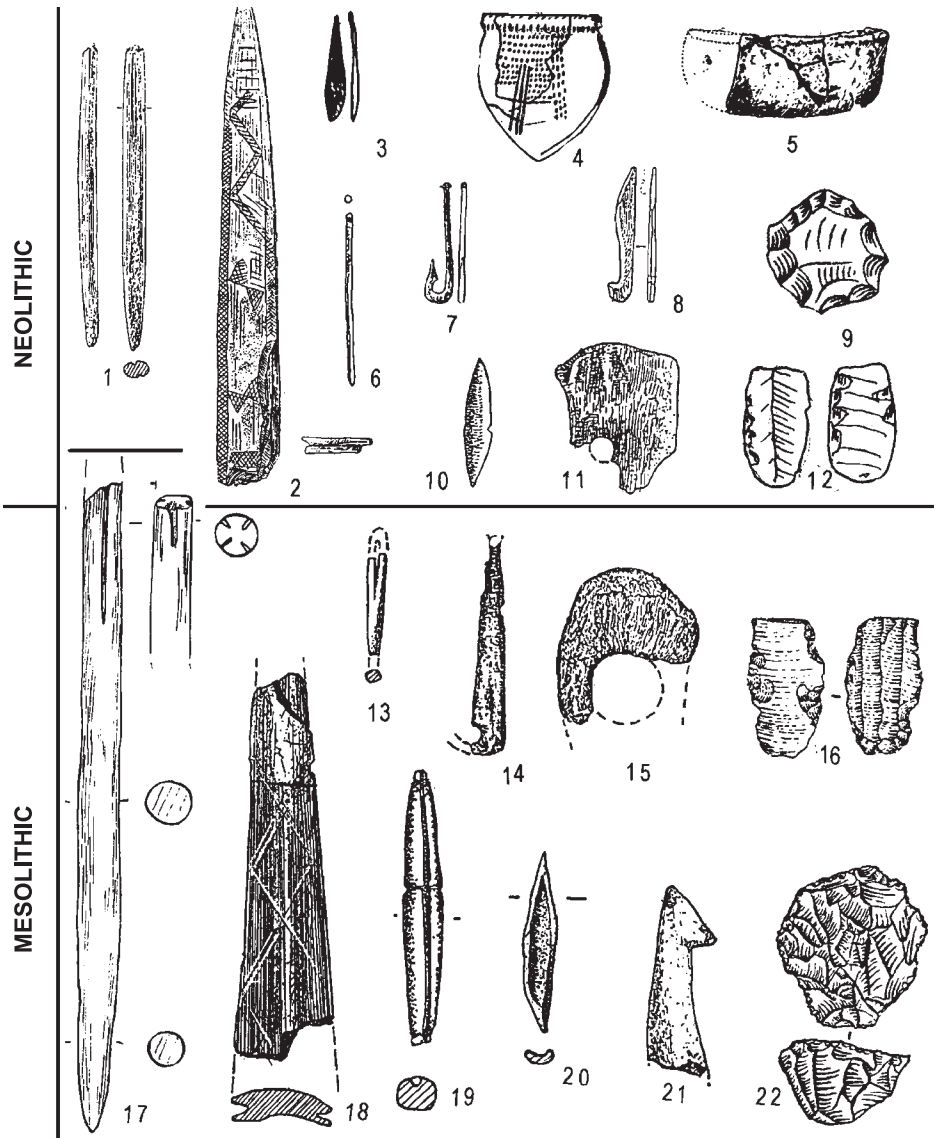


Fig. 8. Comparative table of bone, horn and flint artefacts of the Kukrek culture (13-22) and the Surska culture (1-3, 6-12); vessels (4,5). 1-3, 5-8, 12 - Surskoy; 4 - Strilchaya Skelya; 9-11 - Shulayev; 15-22 - Igren 8.

which, regrettably, offers no answer to many other questions. So far, the problem of culture-genetic relations of the Grebeniki culture and the Bug-Dniester culture found at the same territory remains unclear. This study did not raise the issue of external influences on the processes of Neolithization of the Azov-Black Sea region, including the impact of the Criş-Starčevo culture from the Balkans on the southern Bug-Dniester culture formation. It did not raise a problem of the latter's role in the emergence of the Dnieper-Donets culture either. Apparently, the appearance of the Surska and the Mountain-Crimean cultures also involved external impulses. It is not unlikely that the impulse went from a common centre, which would explain the relative similarity of ceramics of these cultures, although no such similarity is observed in flint materials.

The solution of these issues is still open to further research.

Translated by Monika 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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Vol.1: *Weapons of the tribes of the Northern Pontic zone in the 16th–10th centuries B.C.*, by Victor I. Klochko.

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Orders regarding B-PS should be adressed directly to the Editorial Office (Baltic-Pontic Studies, Institute of Prehistory, Św. Marcin 78, 61-809 Poznań, Poland).

This publication was supported by a grant from the International Research & Exchanges Board, with funds provided by the U.S. Department of State (Title VIII), The National Endowment for the Humanities (NEH), and the John D. and Catherine T. MacArthur Foundation. None of these organizations is responsible for the views expressed.

The publication was partly founded by the University of Łódź and by the Foundation of Adam Mickiewicz University too.

ISBN 83-86094-04-4
ISSN 1231-0344