

**THE INGUL-DONETS
EARLY BRONZE CIVILIZATION
AS SPRINGBOARD FOR TRANSMISSION
OF PONTIC CULTURAL PATTERNS
TO THE BALTIC DRAINAGE BASIN
3200 – 1750 BC**

Jacek Górski

Svitlana Ivanova

Liubov Klochko

Viktor I. Klochko

Aleksander Koško

Mikola Kryvaltsevich

Sergey D. Lysenko

Roman O. Lytvynenko

Przemysław Makarowicz

Vitaliy V. Otroshchenko

Gennadiy N. Toshev

BALTIC-PONTIC STUDIES

V O L U M E 18 • 2013

BALTIC-PONTIC STUDIES
61-809 Poznań (Poland)
Św. Marcin 78
Tel. 618294799, Fax 618294788
E-mail: antokol@amu.edu.pl

EDITOR
Aleksander Koško

EDITOR OF VOLUME
Aleksander Koško
Viktor I. Klochko

EDITORIAL COMMITTEE
Sophia S. Berezanskaya (Kiev), Aleksandra Cofta-Broniewska
(Poznań), Mikhail Charniauski (Minsk), Lucyna Domańska
(Łódź), Elena G. Kalechyts (Minsk), Viktor I. Klochko (Kiev),
Mykola N. Kryvaltsevich (Minsk), Roman Litvinenko (Donieck),
Jan Machnik (Kraków), Przemysław Makarowicz (Poznań), Vi-
taliy V. Otroshchenko (Kiev), Marzena Szmyt (Poznań), Petro
Tolochko (Kiev)

SECRETARY
Marzena Szmyt

SECRETARY OF VOLUME
Karolina Harat
Danuta Żurkiewicz

ADAM MICKIEWICZ UNIVERSITY
INSTITUTE OF EASTERN STUDIES
INSTITUTE OF PREHISTORY
Poznań 2013
ISBN 83-86094-18-4
ISSN 1231-0344

**THE INGUL-DONETS
EARLY BRONZE CIVILIZATION
AS SPRINGBOARD FOR TRANSMISSION
OF PONTIC CULTURAL PATTERNS
TO THE BALTIC DRAINAGE BASIN
3200 – 1750 BC**

Jacek Górski

Svitlana Ivanova

Liubov Klochko

Viktor I. Klochko

Aleksander Koško

Mikola Kryvaltsevich

Sergey D. Lysenko

Roman O. Lytvynenko

Przemysław Makarowicz

Vitaliy V. Otroshchenko

Gennadiy N. Toshev

BALTIC-PONTIC STUDIES

V O L U M E 18 • 2013

© Copyright by BPS and Authors
All rights reserved

Cover Design: Eugeniusz Skorwider

Linguistic consultation: Ryszard J. Reisner

Printed in Poland

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

Printing: Zakłady Poligraficzne TMDRUK in Poznań



THIS VOLUME IS DEDICATED TO THE MEMORY OF

PROFESSOR ALEKSANDRA COFTA-BRONIEWSKA
(13 JANUARY 1926 – 12 MAY 2013)

AND

PROFESSOR MIKHAILO CHARNIAUSKI
(7 MARCH 1938 – 20 JANUARY 2013)

EDITORIAL COMMITTEE, BALTIC-PONTIC STUDIES

CONTENTS

EDITOR'S FOREWORD	7
EDITORIAL COMMENT	8
Viktor I. Klochko, Aleksander Koško, THE BALTIC DRAINAGE BASIN IN THE RECONSTRUCTION OF THE MENTAL MAP OF CENTRAL EUROPE HELD IN COMMON BY NORTHERN-PONTIC EARLY-BRONZE CIVILIZATION COMMUNITIES: 3200-1600 BC. AN OUTLINE OF THE RESEARCH PROGRAMME.	9
PART 1 – CENTRES OF EARLY BRONZE AGE CIVILISATION (COMPOSITE BRONZE METALLURGY) IN THE NORTHERN BLACK SEA DRAINAGE BASIN: TURN OF THE 4TH/3RD MILLENNIUM BC TO CLOSE OF THE 3RD MILLENNIUM BC	21
Vitaliy V. Otroshchenko, THE CATACOMB CULTURE PHENOMENON	21
Viktor I. Klochko, Liubov Klochko, COMPLEX OF METAL GOODS BETWEEN THE VISTULA AND DNIEPER RIVERS AT THE TURN OF THE 4TH/3RD TO THE 3RD MILLENNIUM BC. CONCEPT OF THE CARPATHIAN – VOLHYNIA “WILLOW LEAF” METALLURGY CENTRE	39
PART 2 – THE BALTIC PERSPECTIVE (CENTRAL EUROPEAN) IN THE SYSTEM OF EXOGENOUS CONTACTS OF EARLY BRONZE AGE NORTHERN PONTIC CENTRES: 3RD MILLENNIUM BC TO TURN OF THE 3RD/2ND MILLENNIUM BC	72
Gennadiy N. Toshev, IN THE WEST OF THE CATACOMB AREA	72
Svitlana Ivanova, CONNECTIONS BETWEEN THE BUDZHAK CULTURE AND CENTRAL EUROPEAN GROUPS OF THE CORDED WARE CULTURE	86
Roman O. Lytvynenko, CENTRAL EUROPEAN PARALLELS TO THE DNIEPER – DON CENTRE OF BABYNO CULTURE	121
Mikola Kryvaltsevich, BABYNO-TYPE CERAMICS IN THE EASTERN POLESSIYE. .	139
Przemysław Makarowicz, Jacek Górski, Sergey D. Lysenko, PONTIC AND TRANSCARPATHIAN CULTURAL PATTERNS IN THE TRZCINIEC CIRCLE BETWEEN THE PROSNA AND DNIEPER	162
References	203
List of Authors.	245

Editor's Foreword

In 2009, the 14th volume of *Baltic-Pontic Studies (BPS)* ran a series of papers summing up the state of research at that time into the routes between the Baltic and Black seas between the 4th and 1st mill. BC. They are an expression of an early reflection prompted by the need to look more closely at the impact Pontic cultural environments – where composite metallurgy was practised, designated as Early Bronze in this volume – had on the Decline Neolithic and Proto-Bronze settlement centres in the Baltic drainage basin. It is to this question that successive volumes of the *BPS* shall be devoted.

Specifically, according to the research programme aims mentioned above (initial fruits being the papers included in *BPS*, vol. 18) the environments of Northern Pontic cultures – Yamnaya, Catacomb and Babyno – and the Trzciniec cultural circle were identified as generators of the Ingul-Donets Early Bronze Civilization or their immediate neighbours. In proposing this modification of the gamut of phenomena making up the prologue to the European Bronze Age, we intend to suggest the need for a more integrated ('extra-taxonomic') and at the same time, territorially wide-ranging reading of Northern Pontic civilization environments and its cultural interaction in the period from the 3rd to the first half of the 2nd mill. BC.

More arguments in favour of the above opinion can be found in the introductory paper: *The Baltic Drainage Basin in the Reconstruction of the Mental Map of Central Europe Held in Common by Northern-Pontic Early-Bronze Civilization Communities; 3200 – 1600 BC, An outline of research programme.*

Editorial comment

1. All dates in the B-PS are calibrated [BC; see: Radiocarbon vol. 28, 1986, and the next volumes]. Deviations from this rule will be point out in notes [bc].
2. The names of the archaeological cultures and sites are standarized to the English literature on the subject (e.g. M. Gimbutas, J.P. Mallory). In the case of a new term, the author's original name has been retained.
3. The spelling of names of localities having the rank of administrative centres follows official, state, English language cartographic publications (e.g. *Ukraine, scale 1 : 2 000 000*, Kyiv: Mapa LTD, edition of 1996; *Rèspublika BELARUS', REVIEW-TOPOGRAPHIC MAP*, scale 1:1 000 000, Minsk: *BYELORUSSIAN CARTOGRAPHIC AN GEODETIC ENTERPISE*, edition 1993).

Mikola Kryvaltsevich

BABYNO-TYPE CERAMICS IN THE EASTERN POLESSIYE

1. INTRODUCTION

The Babyno culture circle (2200 – 1800 BC) belonged to the post-Catacomb block of cultures of the Northern Pontic – Caspian Region. The main territory of proliferation of monuments associated with the Babyno culture circle (BCC) lies within the steppe and forest-steppe zone of the Northern Pontic area: from the right-bank Prut and the lower Danube in the west, to the Lower Don in the east [Litvinenko 2009a; 2011b]. Groups of monuments and individual finds of the Babyno types occur outside of the main territory: in the north of the forest-steppe and in the south of the forest zone [Litvinenko 2008a]. The eastern Polissya is a peripheral region of monuments containing Babyno materials in the south of the forest zone.

The issue of occurrence of materials linked culturally to the circle of steppe antiquities (with their typical multi-roll *Mnogovalikovaya* pottery patterns) in the south-east of Belarus became a matter of discussion, for the first time, after Pobol published an article on the Borysovshchyna grave [Pobol 1966: 194-197]. In 1967, Vladymir F. Isaenko and Mikhailo M. Cherniavsky named several eastern Polissya monuments, which, in their opinion, contained materials “displaying borrowings of elements of the *Mnogovalikovaya* pottery culture” [1967: 157]. In 1982–1983, Bychkov excavated the settlement of Zaspá 2 on the Dnieper near Rechytsia [1982; 1983a; 1985]. In the cultural layer of the monument, he found a representative and typical collection of multi-cordoned ware (*Mnogovalikovaya* pottery) and, therefore, finally confirmed his proposition in respect to the presence of Babyno materials on the territory of south-eastern Belarus.

In the first decade of 2000, this author published articles with a preliminary summary of all data for Babyno materials collected by that time in the eastern regions of the Belarusian Polissya [Kryvaltsevich 2001:318-322; 2004:154-156;

2005: 149-156]. Apart from systematisation of *Mnogovalikovaya* pottery from 13 monuments located in Belarus, the articles pointed out to some of its specific features and suggested an assumption that it contained some elements typical for the Middle Dnieper culture (MDC). It was also noted that the *Borysovshchyna* grave, found by Pobol, should be regarded as an object bearing syncretic features, where the *Babyno* culture elements had but a relatively small role [Kryvaltsevich 2001: 318-322; 2004: 154-156; 2005: 149-156]. The published material was used by Litvinenko to characterise the Dnieper – Pripyat local group of BCC monuments that he had identified. In his view, the Dnieper-Pripyat group had to be provisionally considered within a system of other northern and north-western periphery groups of the *Babyno* type (*Desna-Seim*, *Podolia-Volhynia* groups) that had emerged as a result of infiltration of bearers of the *Babyno* community into a different cultural environment [Litvinenko 2008a; 2009a].

Within the recent decade the historical scholarly base of antiquities of the *Babyno* type in the Belarusian eastern Polissya has expanded, which allows a deeper analysis and identification of new circumstances regarding their proliferation and genesis.

2. SOURCES

This article analyses materials of the *Babyno* type from 27 Belarusian eastern Polissya monuments: *Lomysh 2*, *Zhakhovychi 1*, *Narovlya*, *Tulgovichi 1*, *Teshkov 2*, *Konotop 2*, *Orevichi 1*, *Dernovichi 1*, *Khvoshchevka 2*, *Yurovichi 3, 4, 5* on the *Pripyat* River (objects gathered from the surface and excavated by Isaenko) the settlement of *Mozyr – Kimborovka* on the *Pripyat* River (excavations by Zolashko, Bulkina, Kolosovsky) *Abakumy 1* in the estuary of the *Sozh* River (excavations by the author and Makushnikov) *Derazhichi* (objects gathered on the surface by Isaenko, Ksendzov and this author), a group of monuments near the village of *Byvalki* (objects gathered on the surface by this author and Sinila), *Belyi Bereg* (objects gathered on the surface by Melnikovskaya), the settlement of *Mokhov* (excavations by Melnikovskaya), *Mokhov 3A* (excavations by the author), *Unorytsa* (objects gathered on the surface by Ksendzov), *Kopan 1* (objects gathered on the surface by Bychkov), *Zaspa 2* (excavations by Bychkov) on the *Dnieper*; the barrow burial mound *Pribor* on the *Uza* River (excavations by Bychkov and the author) *Borysovshchyna 1* on the *Ptich* River (excavations by Pobol and the author) (Fig. 1). The materials of the above monuments are kept in the archaeological reserves of the Institute of History of the Belarusian Academy of Sciences and in the collection of the Gomel Palace Park Ensemble, the *Mozyr* and the *Rechytsa* local history museums. The majority of finds were obtained as a result of surface gather-

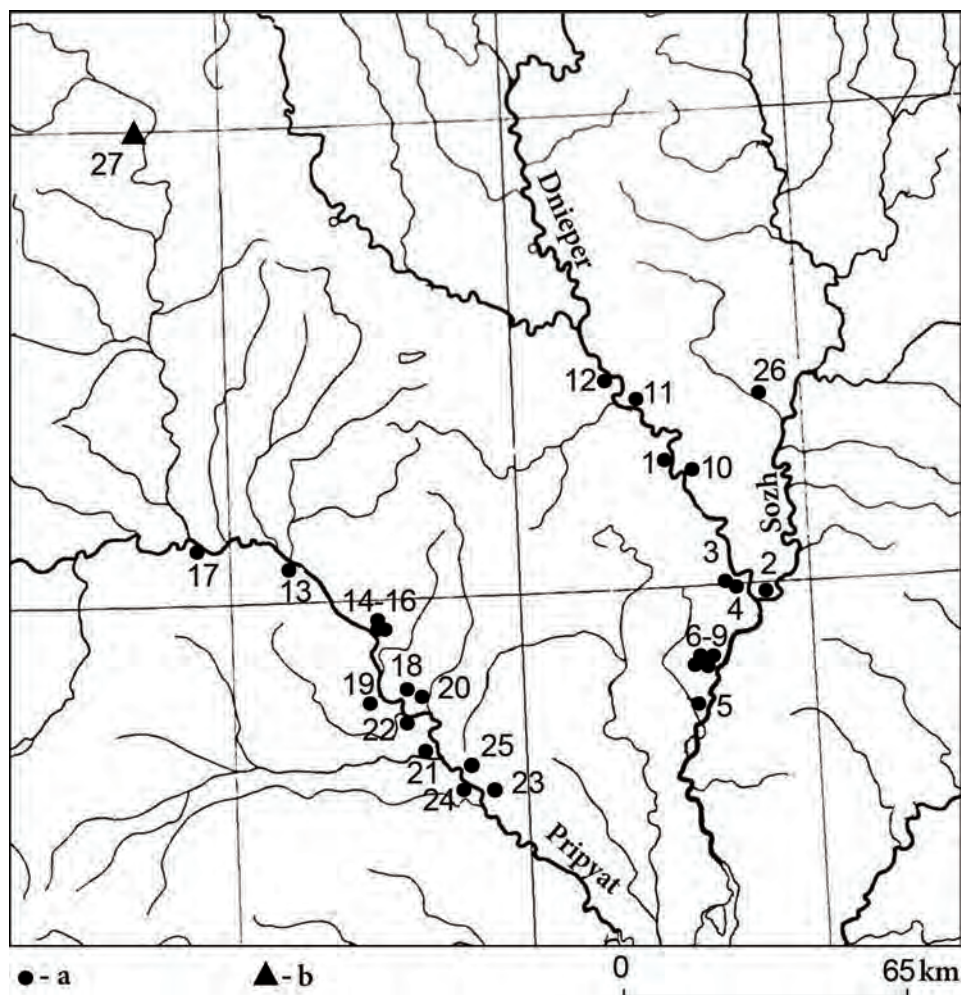


Fig. 1. Monuments with the Babyno-type pottery on the territory of the eastern Polissya of Belarus (a): 1 – Zaspá 2; 2 – Abakumy 1; 3 – Mokhov hill fort; 4 – Mokhov 3A; 5 – Derazhichi; 6 – Byvalki-Dyubicheva Gora; 7 – Byvalki-Rubezhnyi Rov; 8 – Byvalki-Sholomova Gora; 9 – Byvalki-Most; 10 – Belyi Bereg; 11 – Kopan 1; 12 – Unoritsa 2; 13 – Mozyr-Kimborovka hill fort; 14 – Yurovichi 3; 15 – Yurovichi 4; 16 – Yurovichi 5; 17 – Zhakhovichi 1; 18 – Lomysh 2; 19 – Narovlya; 20 – Tulgovichi 1; 21 – Teshkov 2; 22 – Konotop 2; 23 – Orevichi 1; 24 – Dernovichi 1; 25 – Khvoschovka 2; 26 – Pribor. Pottery with elements of the Babyno type (b): 27 – Borisovshchina 1

ing; some were obtained through excavations. Multi-cordoned (Mnogovalikovaya) ware was present in multi-cultural complexes and identified with the help of the comparative typology method. Multi-cordoned ware objects found in those monuments were usually accompanied by objects and materials of the eastern Polissya

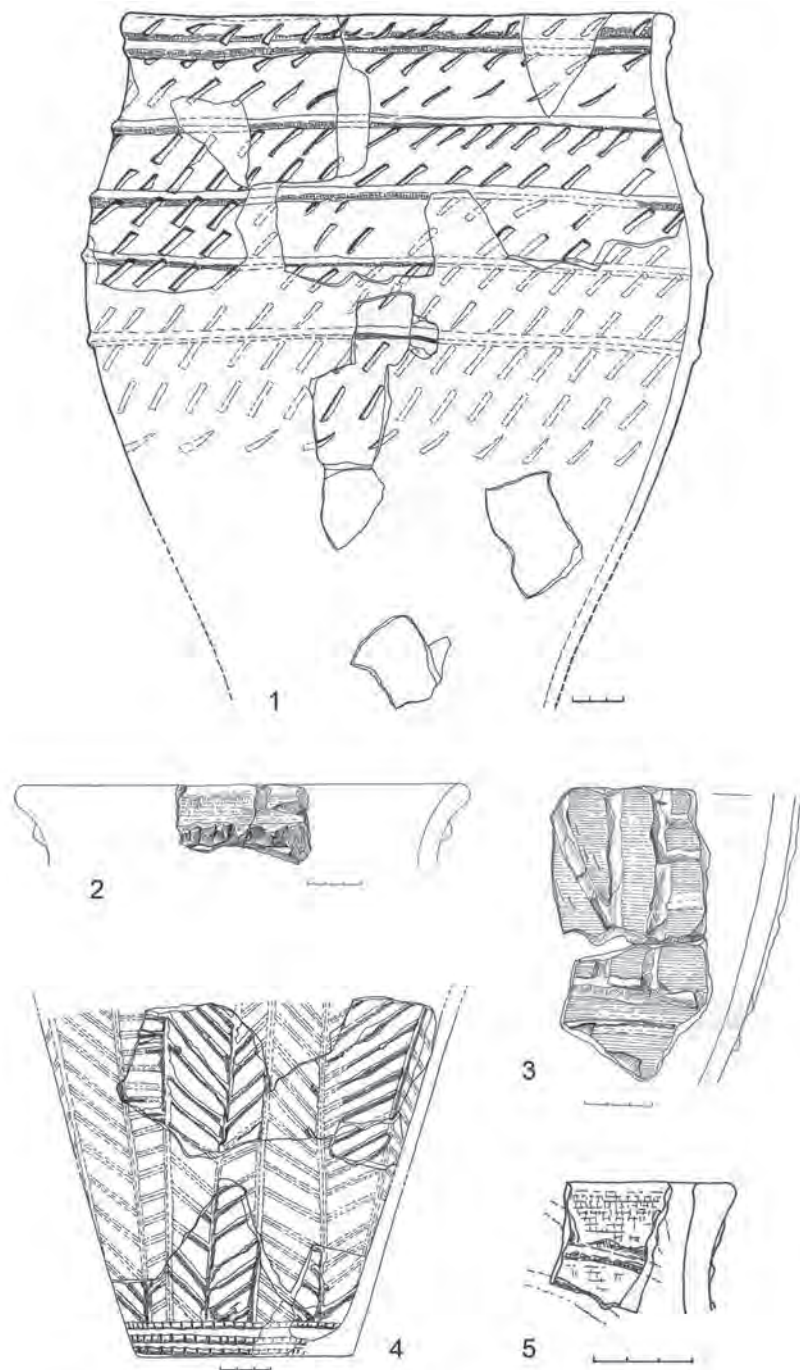


Fig. 2. Zaspá 2. Babyno-type pottery: Group I (1, 3 – 5) Group II (2)

version of the Dnieper Donets Culture (EPDDC) Middle Dnieper culture (MDC) the Trzciniec culture circle (TCC) (including the Sosnitsya type) monuments containing the Polissya-type corded ware (CWPT). The Babyno-type ceramics were represented by a relatively small number of individual fragments (from one to a few dozen) or several piles of fragments of broken pots (Zaspa 2).

2.1. DISSEMINATION RANGE AND CONDITIONS OF MONUMENT LOCATION

Almost all of the above monuments were located within the confines of the Gomel and Mozyr Polissya along the rivers of Pripyat and Dnieper. Individual monuments were found in the estuary of the River of Sozh and the lower current of the River of Uza (the right tributary of the Sozh). The Borysovshchyna 1 grave, in which only individual elements of the Babyno type could be traced, was found in the confines of the Bobruysk plain of the eastern Pre-Polissya in the basin of the River of Ptich, the left tributary of the Pripyat (Fig. 1). It is worthy of note that the multi-cordoned ware occurred, in most cases, on the banks of relatively large rivers (Pripyat, Dnieper, Sozh) that had direct connections along the Dnieper with the territories farther south, primarily the forest-steppe lands. Within the Polissya, those rivers boast broad valleys with extensive floodplain meadows. The monuments, in which the multi-cordoned ware occurred, were located directly in the floodplains (on sand dunes, the remnants of terraces), or on the edges of river terraces. Some of the monuments were found on the highest parts of the local relief: on the right (root) bank of the Dnieper (settlements Mokhov, Byvalki) on the high point of the Mozyr heights, adjacent to the Pripyat (Mozyr-Kimborovka hill fort).

2.2. PRINCIPLE POTTERY COMPLEXES AND TAXONOMY

In general, a number of features indicate that a piece of eastern Polissya pottery belongs to the Babyno culture circle (BCC): (a) ornamental elements represented by rolls, smooth and decorated with finger impressions, which were arranged in Horizontal rows, tree-like, triangular or “parquetry” patterns; (b) combination of rolls with scratched ornaments, including the patterns formed by shaded triangles, parquet and tree-like ornaments and others; (c) the shape of some pots with a turned-out rim and a bi-conical; (d) technological features, represented by dense, hard and sometimes heavy clay mass with the admixture of

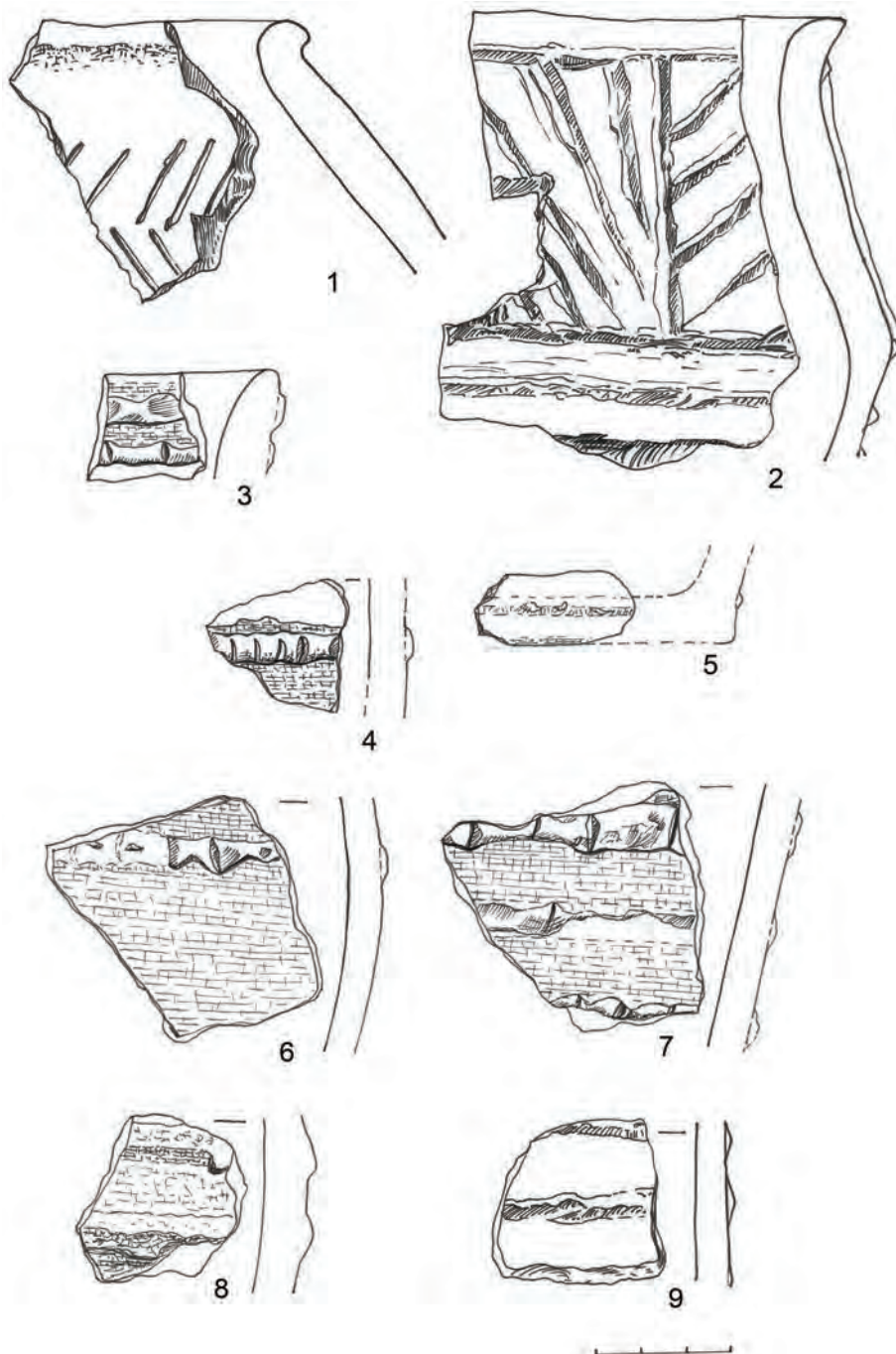


Fig. 3. Abakumy 1. Babyno-type pottery: Group I (1, 2, 8); Group III (3-7, 9)

a large amount of sand and some other artificial barren agents; smooth (sometimes engobed), reddish-brown, dark red, yellow-red colour of the outer surface and darker inner surface of the vessels, smooth or with traces of rubbing; many of the vessels relatively thick-walled (up to 1.0 – 1.2 cm). These features rarely occurred combined at the same time and within the same complex. Usually the eastern Polissya pottery displayed only some of the above features. Moreover, the Babyno type pottery in the eastern areas of Polissya was not homogenous. Judging by materials of four of the most demonstrative pottery complexes (Zaspa 2, Abakumy 1, Mokhov settlement, Mozyr-Kimborowka settlement), we can identify three key groups of Babyno-type pottery.

2.3. ZASPA 2

The monument is located on a small right-bank floodplain hill of the Dnieper River. Bychkov studied Zaspa 2 with excavations in 1982–1983 [1982; 1983a; 1983b]. The Babyno-type pottery complex from Zaspa 2 included incomplete assemblages and shards of five pots, as well as five fragments of other multi-cordoned vessels (Fig. 2). It is worthy of note that the Zaspa 2 settlement also contained materials of other cultures and types: Neolithic Pit-Comb Ware; Middle Dnieper culture and the Sosnitsya type comb-ring ceramic ware. The dominating finds and objects (household and domestic) on the monument were those connected to the late Sosnitsya stage of the Bronze Age [Bychkov 1982; 1983a; 1983b; 1985; 1989]. Researching Bychkov's excavation materials (kept in the reserves of the Institute of History of the Belarusian Academy of Sciences) allows us to identify two groups of Babyno-type pottery.¹

Group I includes incomplete broken pots and fragments of four pots, five fragments of walls of other vessels (Fig. 2:1, 3-5). Those ceramic shards had a relatively dense and heavy clay mass with admixtures of a large volume of sand. The surface was smooth or engobed, red-bordeau or dark-bordeau. The ceramics were thick-walled (up to 1 – 1.2 cm), ornamented with cordons, smooth or with finger-made indentations. On one of the vessels, the impressions of a large rectangular stamp were added to the cordoned ornament (Fig. 2:1). Judging by the presence of the majority of the Babyno features, it may be argued that the collected pottery matched, to the highest extent, types of pottery that were characteristic of the Babyno culture circle.

Group II included fragments of only one of the pots (Fig. 2:2). Its similarity to Babyno pottery is limited to the typical cordoned ornament with finger inden-

¹ My earlier papers [Kryvaltsevich 2004; 2005] used drawings with reconstructions of multi-cordoned pots from Zaspa 2, made earlier by Bychkov [1985; 1989]. The research into Zaspa 2 materials compare Fig. 2

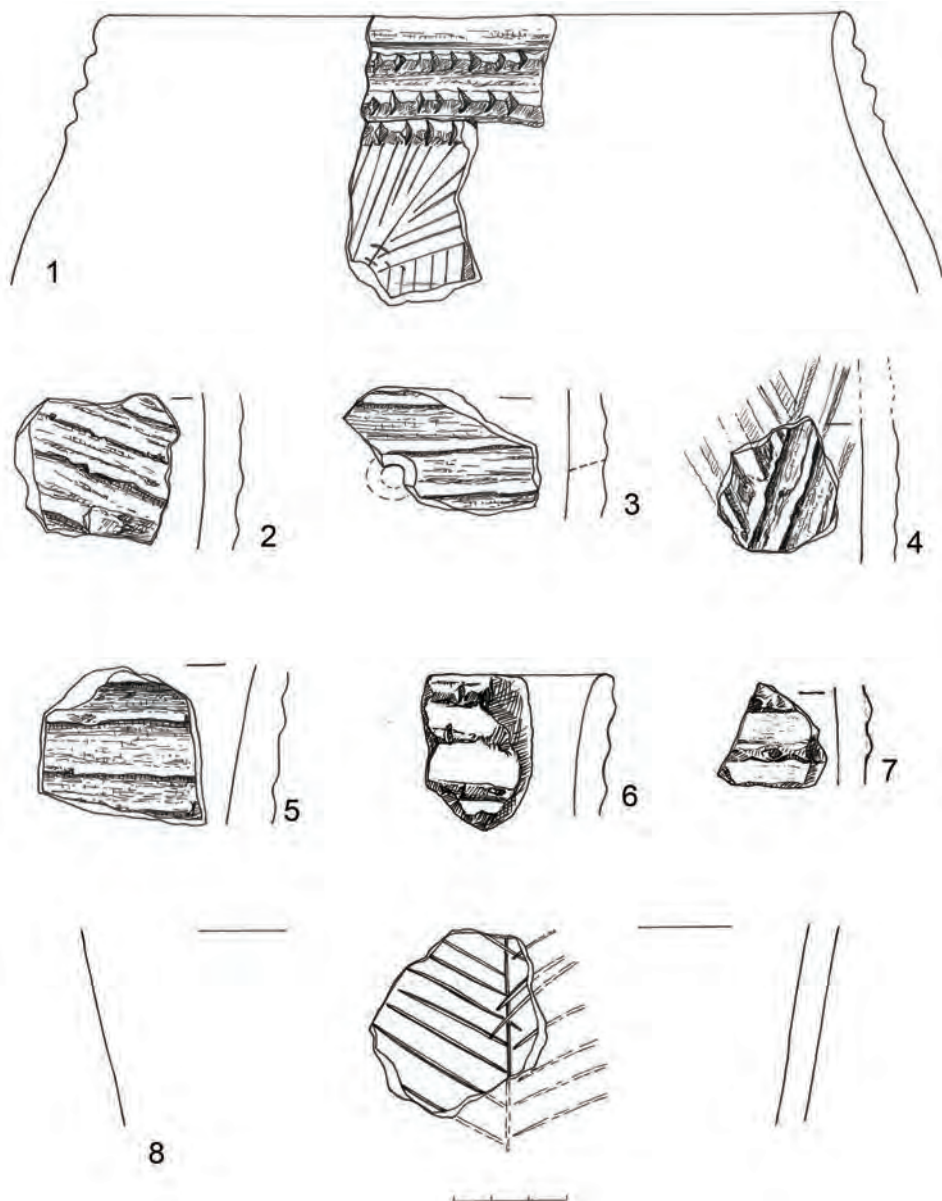


Fig. 4. Mozyr-Kimborovka hill fort. Babyno-type pottery: Group I (1, 8); Group III (2 – 7)

tations. The vessel's surface was engobed. It differs from the previous by its production technique (the dough contains admixtures of small and medium pieces of crumbly sediments) and the grey colour of the surface.

The Babyno-type pottery displays some elements borrowed from the Trzynieć culture circle: a tulip-shaped body and a thicker corolla. One of the vessels was covered with an ornament made with a rectangular stamp, a trace inherited from the Middle Dnieper culture. Trzynieć elements (admixture of crumbly sediments, thickened corolla) can be also observed in the pottery of Group II.

In general, one should admit that while maintaining many of the traditional features of the Babyno type, the multi-cordoned pottery from Zaspá 2 stands out due to the presence of elements of the Trzynieć culture circle (*Groups I and II*) on the one hand and following the Middle Dnieper elements (*Group I*), on the other. This feature makes Zaspá 2 close to the pottery of the Malopolovetske type from the Kyiv Dnieper area, in particular, with the complex of Horizon I (the “Babyno Horizon”) of Malopolovetske, identified by Lysenko. The key form of the “Babyno Horizon” pottery is represented by slightly profiled tulip-shaped pots. Monuments of the Malopolovetske and Khodosovka type, with complexes of the “Babyno Horizon”, were located on the border between the forest-steppe and the Polissya. According to Lysenko, elements of the Babyno culture proliferated to the Kyiv Dnieper area at the stage of Malopolovetske Horizon I (1800 – 1600 BC) and were added to the local “epi-corded substrate, in which the influence of the western massif of the Trzynieć culture circle could already be observed” (Lysenko 2007: 344). Hence, the Babyno-type ceramics of Zaspá 2 features some resemblance to the Malopolovetske Horizon I pottery. This allows assuming that those complexes emerged at about the same time, i.e., at the late stage of development of the Babyno culture circle.

2.4. ABAKUMY I

The monument is located on a high point of the right terrace of the estuary of the Sozh River. Makushnikov and this author performed excavations on the monument in 1998 – 2000. The multicultural monument was represented by materials and objects of the Sosnitsya type as well as complexes of Mesolithic finds, flint items and the “forest Neolithic” pottery, the Middle Dnieper culture. Other artefacts included about 40 potshards of the Babyno culture circle type (Fig. 3).

Many fragments resemble the Babyno ceramics of *Group I* from Zaspá 2 (Fig. 3:1, 2, 8). They were made of clay with the admixture of some sand used as leaner. Traces of smoothing the inner surface by rubbing can be often observed. The ceramics were yellow-red, their walls about 0.7-1 cm thick. The ornamentation

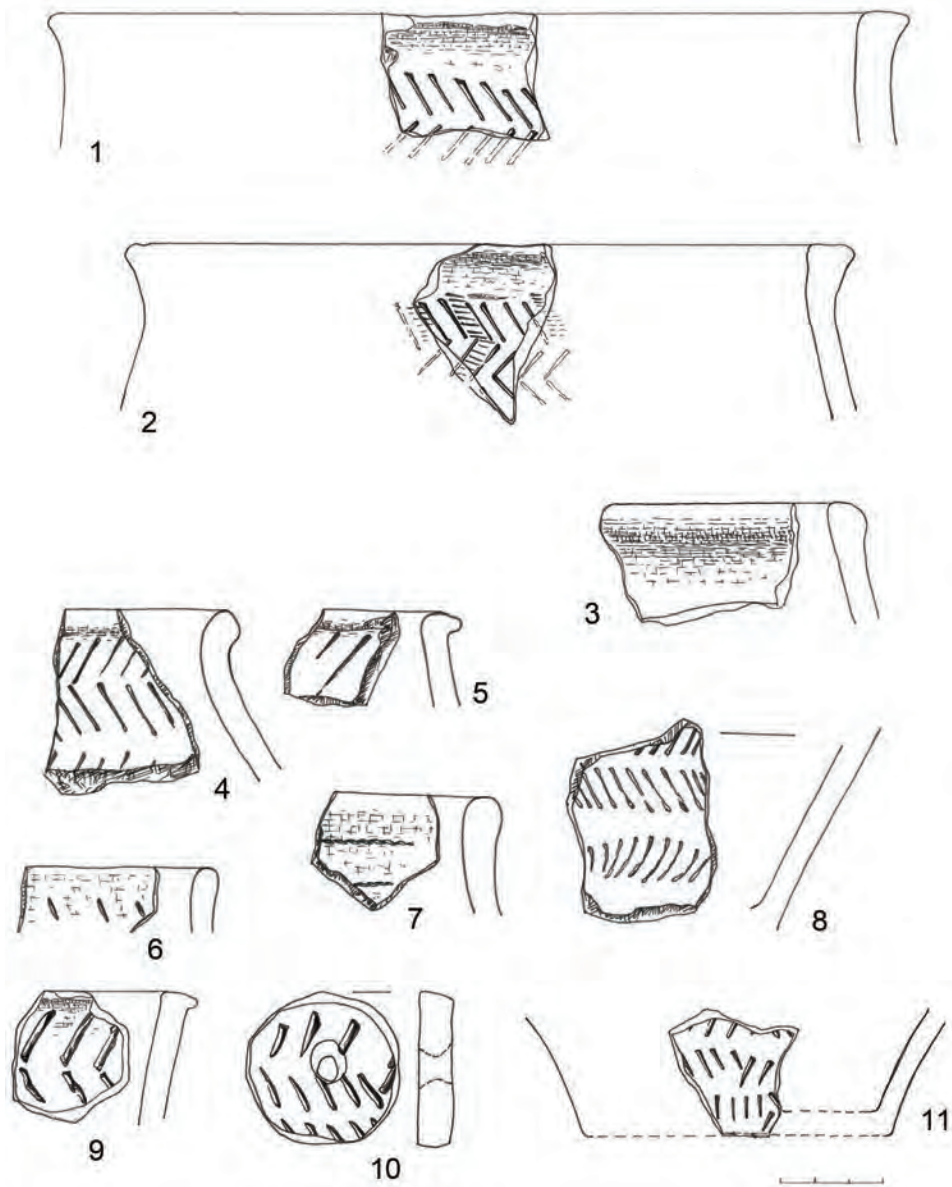


Fig. 5. Mozyr-Kimborovka hill fort. Pottery of the late stage of the Middle Dnieper culture

consisted of smooth and finger-impressed cordons. In addition to Horizontal rows of cordons, there were tree-like cordon motifs (Fig. 3:2). In some cases, cordons were used to decorate the surface of the part of the pot attached to the bottom. The ornament was made with the help of a large rectangular stamp (Fig. 3:1). The finds included a fragment of the upper part of the pot with a steep turn of the body.

A small part of the pottery stood out because its production had included the use of both sand and grog as leaner in the dough and traces of smoothing on the inner surface. The ceramics were relatively thick-walled (about 0.7 cm); the cordons were narrow and low. This author arranged the above fragments into Group III of the Babyno-type pottery (Fig. 3:3-7, 9).

Technological features of Group III of the multi-cordoned ware make it closer to the local pottery of the Middle Dnieper culture. The literature contained multiple references to the presence of Middle Dnieper elements in multi-cordoned ware of some regions. Specifically, such features could be observed in Babyno-type ceramics found on some monuments of the Middle Dnieper area [Berezanskaya 1986:14-23], and, possibly, in the basin of the Desna and Sejma rivers [Litvinenko 2008a].

3. THE MOZYR-KIMBOROVKA SETTLEMENT

The settlement was studied through the excavations performed in 1982–1983 and in 2000–2002 [Zolashko 1982; 1983a; 1983b; Kolosovskiy 2000; 2001; 2002]. The monument is located on the high right bank of the Pripyat River (about 15 m high). The settlement (hill fort) emerged in the Iron Age on the place of more ancient settlements and was actively used in 700-1000 AD. Its cultural layers sometimes contained ceramics of the Dnieper-Don Neolithic culture. The Bronze Age is represented by a few hundred potshards and flint items. Most of the Bronze Age artefacts were found in the Iron-Age and Medieval sites. Only one small part of the Bronze Age cultural layer remained intact, covered by a medieval wall. Unfortunately, only a small portion of the Bronze Age pottery collection of the Mozyr-Kimborovka (materials of the 2000–2001 excavations performed by Kolosovskiy), which consisted of 82 fragments, remained available for research. It contains two main complexes: the pottery of the Babyno-type and the late stage of the Middle Dnieper culture.

Babyno pottery (15 potshards) corresponds with features of Group I (Fig. 4:1, 8) and Group III (Fig. 4:2-7) of Zaspá 2 and Abakumy 1. Meanwhile, potshards of Group prevail, ornamented with smooth and finger-indented cordons and three-like stretched motifs. It is worthy of note that in some cases the cordons were made by moving the fingers against the wet surface of the vessel (Fig. 4:2-4). The pottery

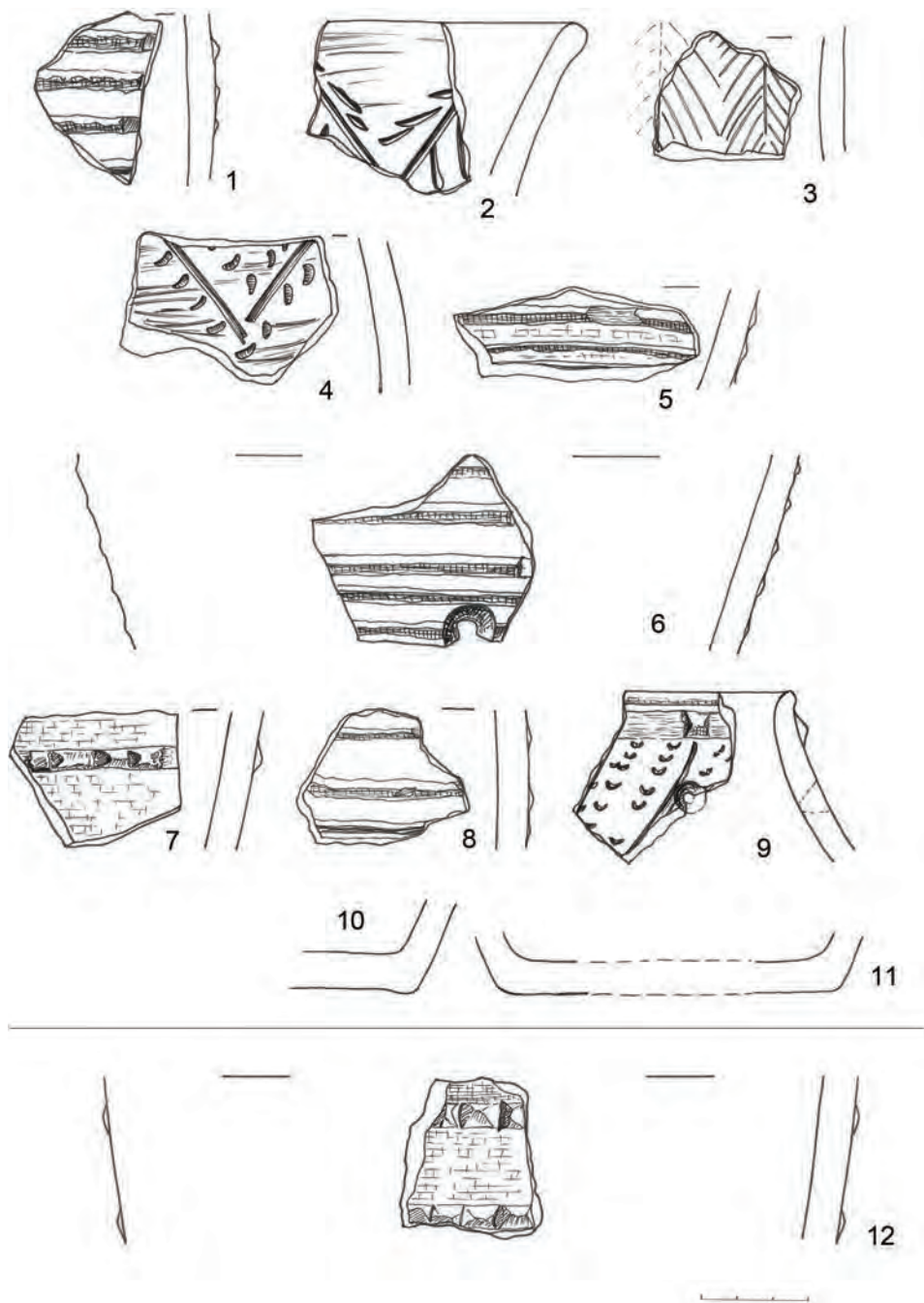


Fig. 6. Babyno-type pottery, Group I (4 – 6), Group III (1 – 3, 7 – 11) from the monuments of the Mokhov hill fort (1 – 11) and Mokhov 3A (12)

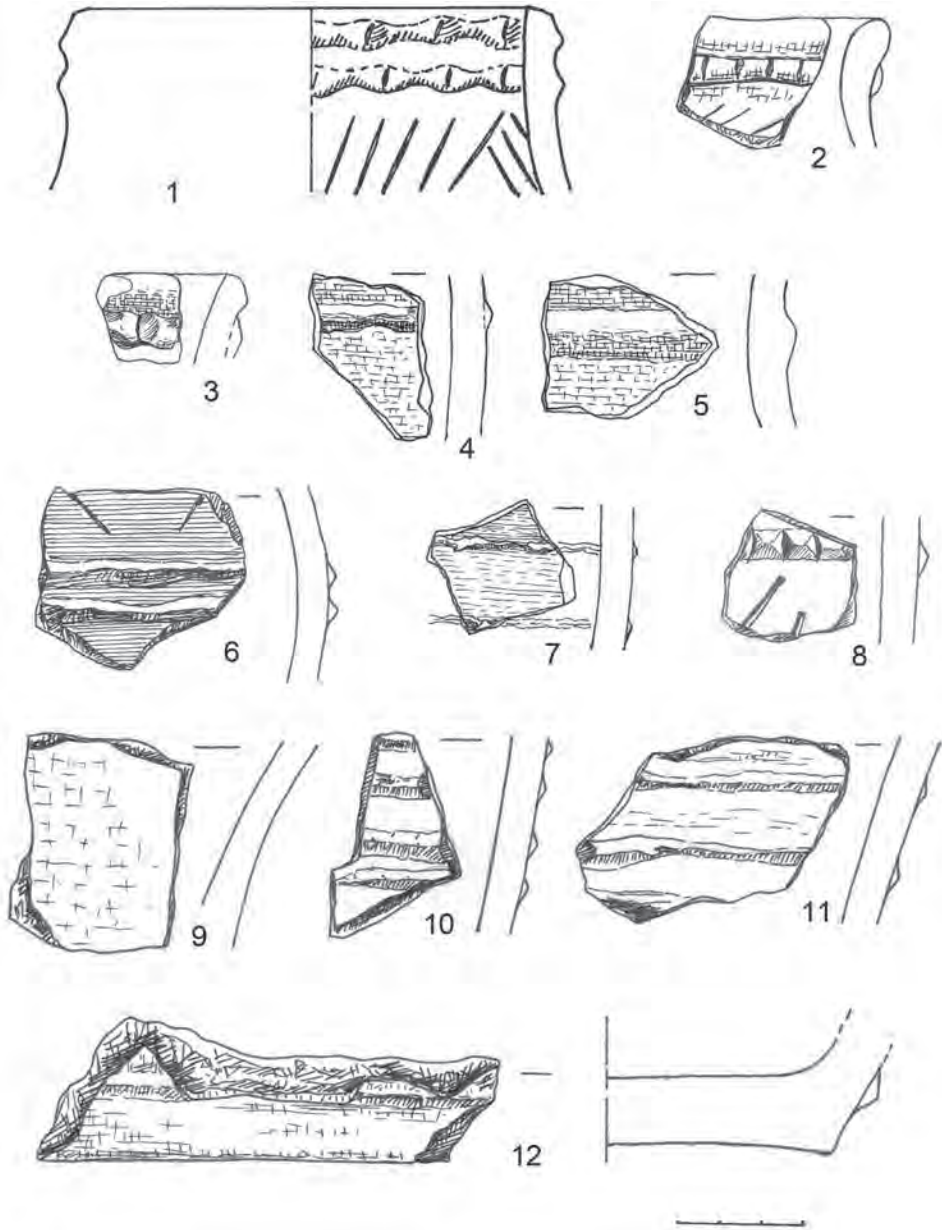


Fig. 7. Babyno-type pottery, Group III: 1 – Yurovichi 5; 2 – Khvoschovka 2; 3-5, 7 – Dernovichi 1; 6 – Byvalki-Rubezhnyi Rov; 8 – Orevichi 1; 9-12 – Byvalki-Dyubicheva Gora

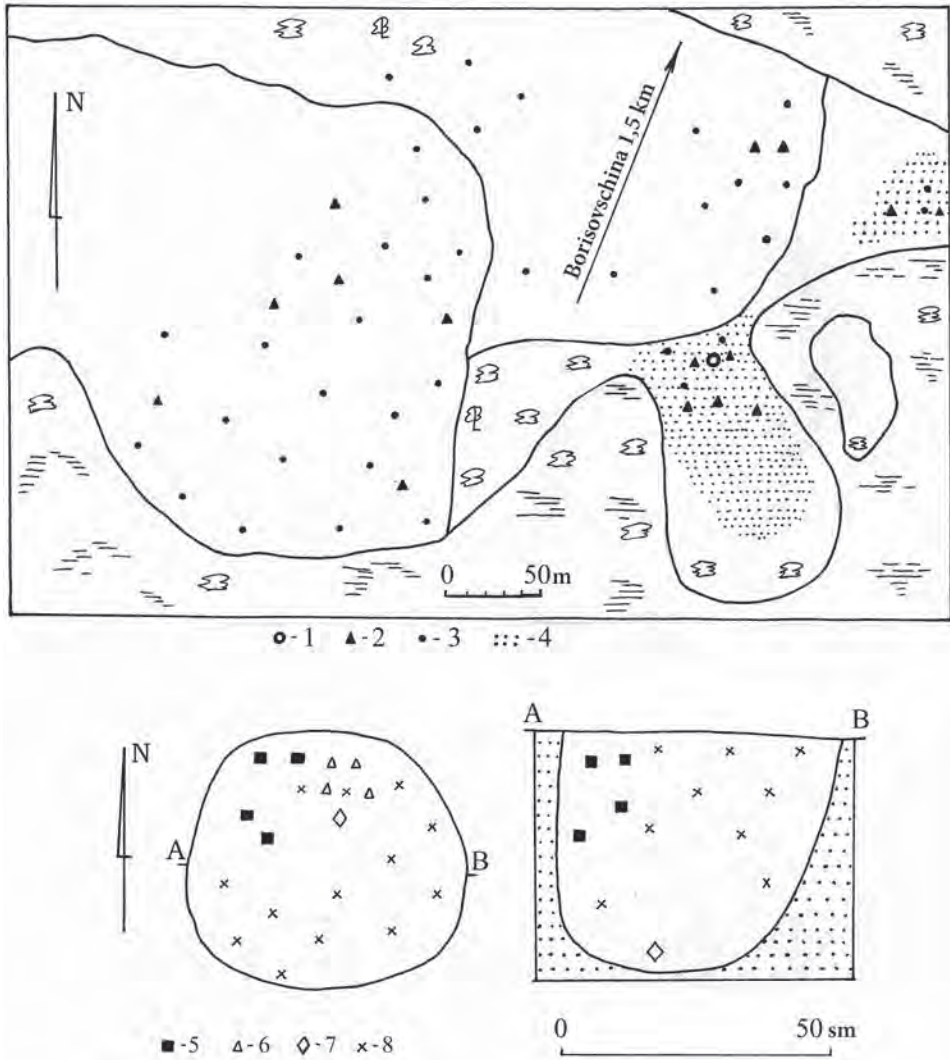


Fig. 8. Borisovshchina 1. Schematic plan of the site, plan and section of the grave [Pobol 1964].
 Legend: 1 – location of the grave; 2 – cremated bones; 3 – artefacts; 4 – sand bulges; 5 – fragments of pot; 6 – flint goods; 7 – a fragment of a human skull; 8 – cremated bones in the grave

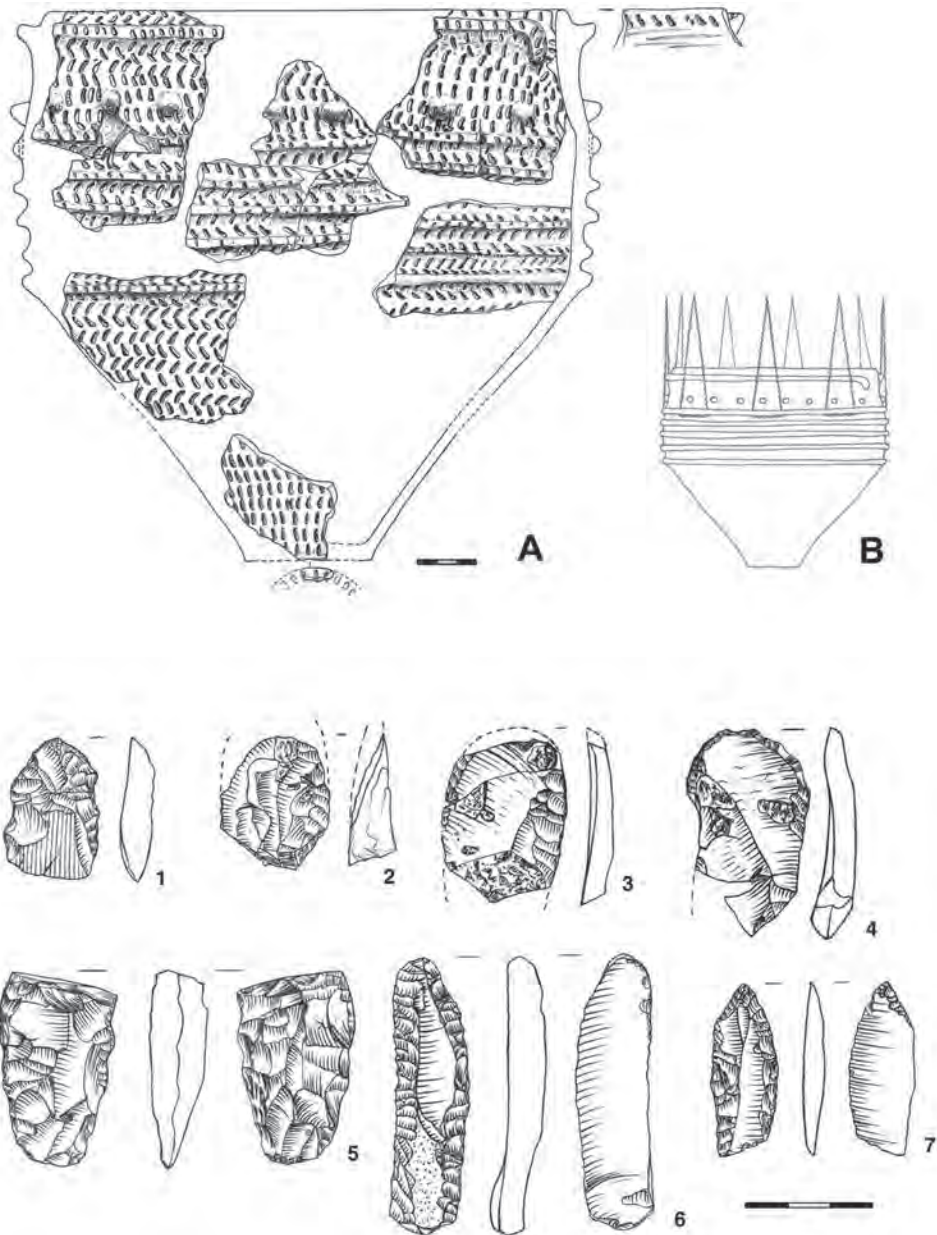


Fig. 9. Borisovshchina 1. Grave goods: A – reconstruction of a pot; B – reconstruction of a suspension of the pot; 1-7 – flint grave-goods

of Group I included the “parquetry” ornament made by fine drawn lines (Fig. 4:1). The use of the “parquetry” ornament allows looking for a genetic connection between the Babyno-type pottery with that of Middle Dnieper culture. The making of cordons with the above method was one means of cordon ornamentation on the pottery of the so-called Malopolovetske type that had emerged at the stage of Horizon I of Malopolovetske and continued to exist throughout the later periods [for details, see: Lysenko 2007:346, 348].

Technological features of pottery of the late stage of the Middle Dnieper culture (67 fragments) (Fig. 5) resembles the Babyno pottery from the Mozyr-Kimborovka settlement, described above. It was smooth or sometimes with traces of smoothing on the inner surface. The ceramic dough was dense, with admixtures of sand, grog, or sometimes crumbly sediments, of yellow-red colour. The width of the walls is about 0.8 – 1 cm, rarely 0.5 – 0.6 cm. The main ornament is made by impressions of a rectangular stamp (Fig. 5:1, 2, 4, 5, 8, 9, and 11). The use of drawn lines was less common; in individual cases, corded and pinned ornaments were used. The pottery was flat-bottomed, with short straight and bent out thickened corollas. The ceramic fragments included a round spindle whorl (diameter about 4.5 cm) with a hole drilled in the middle, made of a pot wall (Fig. 5:10). The late-stage nature of the pottery could be determined based on some elements of micro-morphology (bent-out short thick corollas), the noticeable domination of ornamentation with impressions of a rectangular stamp and a “herring-bone” Horizontal pattern [Kryvaltsevich 1999]. Thickened and bent outward short corollas appear at that time on TCC, found in the Strzyżów culture, on the late Corded Ware of the Polissya type (Ozernoye 1 type) [Kryvaltsevich 1999; 2010]. The pottery of the late stage of the Middle Dnieper culture, identified in the Mozyr-Kimborovka settlement, differs from the local Corded Ware Polissya-type pottery of the Zagoriny group in Mozyr Polessye. Most probably, given their late-stage origin and the technological similarity, it could have appeared in Mozyr-Kimborovka simultaneously with Babyno-type pottery.

4. THE MOKHOV SETTLEMENT

This Iron-Age settlement (hill fort) is located 2 km to the north from the village of Mokhov, on the high cape-like ledge of the right bank of the Dnieper River. Excavations in the settlement were performed by Melnikovskaya in 1955, 1956 and 1961 [1967]. The settlement’s cultural layers contained materials of the Middle Dnieper culture, the Sosnitsya type. The collections, excavated by Melnikovskaya in 1955 and 1956² also contained Babyno-type pottery (24 potshards) (Fig. 6:1-11).

² Archaeological collections of Gomel Palace & Park Ensemble and Rechitsa Local History Museum

Babyno-type pottery from the Mokhov settlement corresponds, to the highest extent, to features of Group III (Fig. 6:1-3, 7-11). Sand and grog served as the artificial admixture. The pottery was dense, with a smooth outer surface and only in some cases did the items bear traces of outer or inner surface smoothing. In addition to smooth cordons with finger-made indentations, the ornamentation occasionally included vertical tree-like motifs, combinations of drawn lines with elongated punctures, as well as rectangular stamp marks. The collection also included individual fragments of Group I pottery (Fig. 6:4-6).

Single finds (between 1 and 10 potshards) of Babyno-type pottery were found in other monuments of the Gomel and Mozyr Polissya (Fig. 1). In most of the cases, these ceramics corresponded with features of Groups I and III and very rarely Group II. The ornaments had dominated motifs of smooth cordons and cordons with finger-made indentations; there were also motifs made by drawn lines (Fig. 7).

5. ISSUES OF DEFINING THE CHRONOLOGY

Presently, pottery of the Babyno culture circle on the territory of the Gomel and Mozyr Polissya can be dated only approximately, based mostly on the comparative-typological method. First of all, there is the proposition that the emergence of multi-cordoned ware in eastern regions of Polissya, as well as generally in the south of the forest area and the northern forest-steppe territories, occurred, most probably, at the late stage of genesis of the Babyno cultures [Litvinenko 2008a; 2009a; Lysenko 2007:344-346; 2011:134-139]. As this author mentioned above, the identified groups of the Babyno-type pottery in the eastern Polissya have some analogies and similar elements in the Middle Dnieper culture, the late stage of the Corded Ware Polissya type, as well as in the emergent Trziniec culture. Some similarities can be found with the pottery of Horizon I Malopologovetske of in the Kyiv Dnieper area.

Pottery complexes of the Babyno type in Mozyr-Kimborovka share similar features with those of the Middle Dnieper, which suggests that they possibly co-existed within the same period. Importantly, elements of the Middle Dnieper culture were observed in the multi-cordoned ware of the Middle Dnieper area [Berezanskaya 1986; Lysenko 2007] and the Desna-Seima group [Litvinenko 2008a].

Hence, pottery of the Babyno culture circle, found in Bronze Age monuments in the Gomel and Mozyr Polissya, most probably emerged simultaneously with the late stage of the Middle Dnieper culture (about 1900/1800 – 1700 BC) [Kryvaltsevich 2006], at the stage of Horizon I (“the Babyno Horizon”) of Malopologovetske (1800 – 1600 BC) [Górski, Lysenko, Makarowicz 2003:291, 296,

298; Lysenko 2007:342-346; 2011:134-139], the dissemination of early elements of the Trziniec culture circle [Górski, Lysenko, Makarowicz 2003; Makarowicz 2010:30-54] and the late stage of the Corded Ware Polissya type (beginning of the 2nd mill. BC) [Kryvaltsevich 2010; 2011a]. Generally, this corresponds with the period of the end of the 1st beginning of the 2nd quarter of the 2nd mill. BC.

6. THE PHENOMENON OF BORYSOVSHCHYNA 1 AND BABYNO CULTURE CIRCLE

The burial site in Borysovshchyna 1 (Glusk District, Mogilev Region) has no analogies between currently known synchronous monuments of the 1st half of the 2nd mill. BC and represents an example of a synthesis of local and exogenous cultural traditions, including those of the Babyno. A repeated study of burial materials³ produced some details that allow for corrections and additions to earlier interpretation versions.

The burial site was discovered on a long cape-like debt of a terrace into the floodplain of the Zarudecha River and the Ptich (left tributary of the Pripyat) [Pobol 1966:294-297] (Fig. 8). Most likely, the burial was not a single one. Clusters of cremated bones and pits occurred on other segments of the northern part of the upland and nearby [Pobol 1964: Fig. 107; 1966:295; Kopytsin 2004:75]. Pobol found remainders of a burial pit (0.5 m in diameter and depth) on a sand surface with a ruined soil layer. The pit had been filled with humus sandy loam with charcoal, ash and fragments of burnt bones (about 100 pieces) (Fig. 8). The upper layer of the filling of the pit contained assemblage of a funerary vessel (Fig. 8:9; A), as well as burnt flint items and small fragments of bone tools among the bones. According to Pobol, the bone tools included fragments of harpoons.⁴ It is worthy of note that fragments of some flint items were located in different parts of the pit. At the bottom of the pit, under traces of cremation, there was a fragment of a human skull that bore no traces of burning⁵ and two ceramic items that had not been put in the fire (Fig. 8).

The set of grave goods also included a unique ceramic vessel (Fig. 9: A)⁶. The pot had a wide upper part that steeply narrowed towards the bottom, which was flat

³ The majority of items from that burial are kept in the reserves of the national History Museum in Minsk (№ 40458/23-29; 40459/1-12).

⁴ Fragments of bone items and remainders of bones are not represented in the museum collection.

⁵ The remainders of the skull are not represented in the museum collection.

⁶ The analysed vessel remains preserved in the collections of the National History Museum in Minsk (№ 40459/1-12) have allowed this author to propose a more credible variant of its reconstruction (Fig. 9: A), as well as to observe highly interesting details that drew one's attention.

and relatively narrow (up to 6 cm in diameter). The pot's neck (about 6 cm high) was slightly narrowed. The diameter of the vessel at the rim could have reached 26 cm and the diameter of the body, 28 cm. Fine grog had been used as natural thinner in the dough. The inner surface displayed traces of dense horizontal smoothing (with dry grass?). The outer surface was smooth. Possibly, it had been smoothed with liquid clay. The colour of the fragments was yellowish or yellow-grey. Most probably, the vessel had been made with strips about 6-7 cm wide. In the upper part, the vessel's walls were up to 1.0-0.7 cm thick, while the lower part was 0.5 cm. The relief decoration of the surface consisted of rounded bulges and six Horizontal cordons.

It is worthy of note that elements of ornamentation included round bulges of clay plastered to the pot's neck and a high (about 1.1 cm) upper cordon under the edge of the rim. One of the cordon's ends hanged down. Through vertical holes about 3 mm in diameter had been pierced in the raw clay almost next to the wall, in the cordon located below the round bulges. Probably, the holes were located in pairs around the entire perimeter of the pot

The entire outer surface of the pot, including the bottom, was covered with ornaments. The decoration could be also seen under the inner rim of the pot. The ornament was made with a short and curved "caterpillar" stamp which, however, did not always leave traces of an interwoven thread.

The found grave goods included remainders of 7 flint items (Fig. 9:1-7)⁷. Some were severely burnt and crumbled (Fig. 9:1-5). Among the flint items, there were three morphologically close scrapers of similar sizes based on relatively wide and flat flakes (Fig. 9:2-4). Only fragments of the scrapers were preserved, with some of their parts were missing. One item could be identified as a scraper with side notches (Fig. 9:1). Most probably, it had been made of a flake removed from a polished stone axe. The grave goods included a burnt flint axe with a flat butt part (Fig. 9:5) and a knife made of dark-grey flint on a fragment of a flat plate flake without a trace of thermal processing (Fig. 9:7).

Of special interest is an object without a trace of being affected by fire, made of dark-grey, almost black flint (Fig. 9:6). The tool was 6.6 cm long, 1.8 cm wide and 0.9 cm thick. It was made of a thick flake plate, processed with retouch along the side edges and on the rounded distal part. The retouch reached the back of the tool, which displayed traces of being intensively used. The ribbed edge of the distal part had traces of heavy rubbing. The ribbed edges of the proximal part looked less worn-out. The bulges on the back of the proximal and distal parts, as well as on the right side, bore traces of polishing. However, the protrusion on the heel of the tool looked even more heavily polished. The tool could have been used as a fire striker, as could be derived from relevant analogies and rubbing and polishing marks that gave it a worn-out look. [Budziszewski, Tunia 2000:127, Fig. 14: G; Budziszewski, Włodarczak 2010:59-61].

⁷ Collections of the National History Museum (№ 40458/23-29).

The macro-morphology of the pot differed from typical multi-cordoned ware and resembled individual vessels with a narrow flat bottom of the late stage of the eastern Polissya version of the Dnieper Donets culture [Isaenko 1976: Fig. 42, B8]. The technological elements like smoothing the inner surface and using the grog inclusions occurred in the Polissya settlements of the Dnieper Donets culture, as well as in the Corded Ware Polissya type (see, for example: Kryvaltsevich 2010: 217-242). The Dnieper Donets culture and monuments of the Corded Ware Polissya type were regarded as a source of the tradition to decorate the entire outer surface of the pot, from the rim to the bottom, ornamentation of the part below the inner edge of the rim and the use of short “caterpillar” marks on ceramics with the “caterpillar” pattern were most frequently found in Corded Ware Polissya type monuments [Kryvaltsevich 1999: Fig. 17:1; 22, 13-15; 26, E4; 2010]. Meanwhile, we should note that the above type of ornamentation became significantly popular in the Pripyat Polissya area mainly as a result of proliferation of traditions of the Middle Dnieper culture.

The connections with the Babyno culture circle traditions can be seen in the application of the multi-cordoned décor and round bulges [Berezanskaya 1986: Fig. 11:1; 6, 19]. The ornament, identical to the hanging down cordon edge, has been practically never observed on multi-cordoned pottery. Yet, fragments of a pot with “turned-down curls” were found in Babyno III [Bratchenko 1977:31, Fig. 5:9]. Cord ornaments with “turned-down curls” can be observed in the Corded Ware Polissya type [Kryvaltsevich 1999: Fig. 18:3]. Similar corded decorations were present on a vessel found in grave 81 of Rudnya Slyagina-Strelitsa [Artemenko 1976: Fig. 8:10].

The Borysovshchyna funerary pot represented a unique synthesis of traditions, i.e., the combination of elements of several cultures and types of monuments: (a) Babyno culture circle; (b) eastern Polissya Dnieper Donets culture; (c) monuments with Corded Ware Polissya type and, probably, the Middle Dnieper culture. Generally, the above interpretation does not contradict the cultural identification of the flint items found in the grave. The flint axe corresponds, to the largest extent, with types of weapons of the “forest Neolithic”. The use of flint items made of wide flat flakes and the inclusion of them as grave goods is typical of the Middle Dnieper culture. Objects, made of fragments of polished flint tools, were often used in the “Corded Ware” period. Objects that could be functionally used as fire strikers were commonly placed in graves of the Middle Dnieper culture. In this case, an analogy can be found in the set of grave goods of grave 1 of the Khodosovichi-Moshka barrow, which included a flint fire striker [Artemenko 1964: Fig. 10:2] and accompanying tools for making a fire [Budziszewski, Tunia 2000: 128; Budziszewski, Włodarczak 2010: 60-61].

Inhumations of the Babyno culture circle were practically never made with the use of the cremation ritual. At the same time, the custom of burning the dead and burying the ashes in soil mound was quite wide-spread in the Middle Dnieper

culture in the Upper Dnieper area (Rudnya Shlyagina-Strelitsa, Syabrovichi-Lipov Brod, etc.) [Artemenko 1976; Kryvaltsevich 2011b].

One should also draw attention to other specific features of the ritual used in the Borysovshchyna burial. Not only multiple fragments of cremated bones and burnt flint items were found in the pit, but also an upper part of a human skull and flint items bearing no trace of thermal action. The skull fragment and the unburnt flint items were found at the bottom of the pit. Hence, we may assume that the flint items without any trace of fire, a part of the head or the whole head of the dead man, had been placed to the bottom of the pit first and then covered with cremated bones and burnt objects, most probably, brought from the funeral pyre. The funeral pot was also placed there in the upper layer. Therefore, the burial was made with the use of the cremation rite combined with the interment of the head, i.e., with partial inhumation.

Interesting specific features can be observed in connection with the functional usage of individual grave goods. Through vertical holes in the cordon, most probably, were made in order to make it possible to hang the pot up (Fig. 9: B). An indirect proof of this can be the presence of a narrow ornamented bottom of the pot. Unusual décor, a narrow ornamented bottom and the use of pot in the hung-up position, allow making the assumption that the pot had been used for ritual purposes.

In this context, a symbolic role could have been played by the flint fire striker, which, possibly, had been used to make a ritual fire. Moreover, the body was buried with the use of the cremation rite, among others. The funeral fire burnt some of the flint and bone items (that had belonged to the dead man?). Given the above factors, it is possible that the dead man buried in Borysovshchyna had had some direct relation to performing sacral functions. Fire therefore had played a great role in the rituals that he had practiced.

In this connection, it is worth remembering some similar elements in burials of the Middle Dnieper culture found in the Upper Dnieper area. Specifically, they can be observed in grave 1 of barrow 11 of Khodosovichi-Moshka on the Dnieper near Rogachev (Gomel Region). The grave goods there contained residues of a polypore fungus and a heavily worn-out flint knife [compare: Artemenko 1964: Fig. 10:2], i.e., the objects that could have been used for lighting a fire. The same kind of fire strikers, some together with fire-making materials, were found in many other burial and household sites of the Corded Ware culture and the Early Bronze Age of Europe. Usually, heavily worn-out flint knives on thick flakes had been used for those purposes [Budziszewski, Tunia 2000: 127-130; Budziszewski, Włodarczak 2010: 60-61].

Some common features can be traced in materials from the Borysovshchyna grave and grave 43 of a mound-less burial site of the Middle Dnieper culture of Rudnya Shlyagina-Strelitsa (Upper Dnieper area). The grave contained two minor vessels: a small wholly-ornamented pot covered with cross-like signs and a small round-bottomed vase with a lozenge ornament [Artemenko 1976: Fig. 7:4, 5]. The pottery from grave 43 – minor vessels decorated with occasional ornamental sym-

bols – had been clearly meant for ritual purposes. To an extent, this assumption can be confirmed by an interesting detail: holes had been pierced at two opposite sides under the edge of the rim of one of the vessels, which had been used to hang it up⁸. The grave also contained there heavily worn-out knife-like flint tools made of thick plate flakes [Artemenko 1976: Fig. 7:1, 2, 7].

No direct analogy to the Borysovshchyna burial has been found so far among the known Bronze Age complexes. The uniqueness of the burial is that it had been made as a result of synthesis of cultural traditions that had spread all over the eastern Polissya territory. It is worthy of note that the material and the ritual complexes of that burial contained only individual elements similar to those found in monuments of the Babyno culture circle. A more visible role in the emergence of the Borysovshchyna burial belongs to traditions genetically originating and collected with the Middle Dnieper culture and monuments of the Corded Ware Polissya type and the eastern Polissya version of the Dnieper Donets culture. The date of the burial may be identified with the help of the presence of the above cultures' elements and types of monuments, first of all, of the Babyno type. In that case, the chronology of the Borysovshchyna burial may range approximately within the end of the 1st – beginning of the 2nd quarter of the 2nd mill. BC.

Borysovshchyna can serve as an example of survival of some elements of the Dnieper Donets culture until the late stages of the Middle Dnieper and the Babyno cultures. The “forest Neolithic” component can be traced in materials from late burials of the Middle Dnieper culture at the Rudnya Shlyagina-Strelitsa burial site [Artemenko 1976]. In Borysovshchyna, parallels with the Middle Dnieper culture can also be seen in the identification of a symbolic role of some grave goods (e.g., a flint knife, a fire striker) in performing the cremation burial ritual. It is possible that the dead man buried in Borysovshchyna had been directly involved in performing ritual functions during his lifetime. The reflection of a lifetime social role and importance of the dead was an element of the funerary ritualism of the Middle Dnieper tribes [Kryvaltsevich 2006; 2007; 2011b].

7. CONCLUSION

The eastern Polissya pottery of the Babyno type, discovered in 26 monuments, can be classed into three main groups and described in terms of certain cultural syncretism, i.e., the inclusion of some elements of the Middle Dnieper culture and the Trziniec culture circle, which makes it different from the multi-corded ware

⁸ The pot is kept within the archaeological collections of the museum of the Gomel Palace and Park ensemble (Gomel) (№ 13217/2A).

of the main “mother” area. The unique burial of Borysovshchyna serves as yet another example of the involvement of traditions of the Babyno culture circle in shaping the eastern Polissya monuments of the Bronze Age. Studying the pot and other grave goods from that burial, as well as of traces of the funeral ritual, has only allowed the identification of individual elements, parallels to which can be found in monuments of the Babyno culture circle. A more significant role in the emergence of the Borysovshchyna burial belongs to traditions that genetically derive from (and are linked with) the Middle Dnieper culture and monuments of the Corded Ware Polissya type and the eastern Polissya version of the Dnieper Donets culture. Possibly, the individual buried in Borysovshchyna had been directly involved in performing sacral functions.

The Babyno-type ceramic material in the territory of eastern Polissya dates back, most probably, within the range of the end of the 1st to the beginning of the 2nd quarter of the 2nd mill. BC. The dissemination of the Babyno traditions to the Gomel and Mozyr Polissya could have occurred from the south and south-east along the Dnieper and the Pripyat rivers, primarily from the Kyiv Dnieper area. The dissemination process probably took the form of the infiltration of individual groups and bearers of the Babyno culture, which had already undergone partial acculturation in the Kyiv Dnieper area, where monuments of the Malopolovetske “Babyno Horizon” occur. The infiltration to the Mozyr and Gomel Polissya was accompanied with further cultural influence by local groups that belonged to the final stage of the “Corded Ware” period, thus, enhancing the assimilation process.

The proliferation of Babyno traditions to the eastern areas of Polissya represents one of the episodes of the spread of steppe cultures onto that area. Elements from the south and south-east had been brought to the Gomel and Mozyr Polissya in the previous and subsequent periods of the pre-historic era.

* * *

The paper offers an analysis of pottery of the Babyno culture circle, found on 26 monuments of the Mozyr and Gomel Polissya in the Upper Dnieper area and the Lower Pripyat River. The study identified three key groups of pottery, which are distinct from the main “mother” area of the Babyno culture circle and contain elements of the Middle Dnieper culture and the Trzyniec culture circle. Most probably, the proliferation of the Babyno traditions to eastern Polissya took place from the Kyiv Dnieper area at the end of the 1st to the beginning of the 2nd quarter of the 2nd mill. BC. The unique inhumation in Borysovshchyna serves as an example of the presence of individual Babyno elements in a burial vessel. Possibly, the individual buried in Borysovshchyna had been directly involved in performing some sacral functions.

Translated by Inna Pidluska

REFERENCES

Agulnikov S.M., Popovich S.S.

2010 Obriad demembratsii v yamnoy kulture Pruto-Dnestrovskogo mezhdurechya. In: *Problemy okhrany i izucheniya pamiatnikov arkheologii stepnoy zony Vostochnoy Evropy. Sbornik statey*, 323-344. Lugansk.

Alekseeva I.L.

1992 *Kurgany epokhi paleometalla v Severo-Zapadnom Prichernomorje*. Kiev.

Alekseeva I.L., Bulatovich S.A.

1990 *Ohrannye istoriko-arkheologicheskie issledovaniya yugo-zapade Ukrainy*. Odessa, Zaporozhe: 35-48.

Antoniewicz V.

1929 Der in Stublo in Wolhynien aufgefundene Bronzeschatz. *Eurasia Septentrionalis Antiqua* 4: 135-148.

Andruk S.I., Dobroliubskiy A.O., Toshev G.N.

1985 *Kurgany u s. Plavni v nizoviakh Dunaya*. Moskva. (held in the Deponirovano v INION AN SSSR 13. 06. 85, № 21110).

Artemenko I.I.

1964 Neoliticheskie stoyanki i kurgany epokhi bronzy bliz s. Khodosovichy Gomelskoy oblasti BSSR. In: O.N. Bader (Ed.) *Pamiatniki kamennogo i bronzovogo vekov Evrazii*, 31-38. Moskva.

1967 Plemena Verkhnego i Srednego Podneprovya v epokhu bronzy. In: *Materialy i issledovaniya po arkheologii SSSR*, 148. Moskva.

1976 Mogilnik srednedneprovskoy kultury v urochische Strelitsa. In: S.S. Bezanskaya et al. (Eds) *Eneolit i bronzovyi vek Ukrainy. Issledovannya i materialy*, 69-96. Kyiv.

1987 Kultury shnurovoi keramiki: srednedneprovskaya, podkarpatskaya, gorodoksko-zdolbitskaya, stzhizhovskaya. In: O.N. Bader, D.A. Kraynov, M.F. Kosarev (Eds) *Epokha bronzy lesnoy polosy SSSR*, 35-51. Moskva.

Bader O.N., Khalikov A.Kh.

1987 Balanovskaya kultura. In: O.N. Bader, D.A. Kraynov, M.F. Kosarev (Eds) *Epokha bronzy lesnoy polosy SSSR*, 76-84. Moskva.

Bagińska J., Koman W.

2011 Wyniki badań kolejnych kurhanów kultury ceramiki sznurowej na Grzędzie Sokalskiej. In: H. Kowalewska-Marszałek, P. Włodarczak (Eds) *Kur-*

hany i obrządek pogrzebowy w IV-II tysiącleciu p.n.e., 371-392. Kraków, Warszawa.

Bandrivskyi M.

2011 Pokhovannia proto- i ranniounietytskoho typu na Verkhniomu Prydnisteri i problema Verkhniodunaiskykh vplyviv na Zakhid Ukrainskoho lisostepu vprodovzh periodiv BRA1-BRA2. *Materialy i doslidzhennia z arkeolohii Prykarpattia i Volyni* 15: 78-108.

Barich B.E.

1971 Il complesso industriale della stazione di Polada alla luce dei piu' recenti dati. *Bullettino di paleontologia Italiana* 80(22): 79-182.

Bargieł B., Libera J.

2005 Kultura strzyżowska na Lubelszczyźnie w świetle znalezisk grobowych In: V.V. Otroschenko (Ed.) *Na poshanu Sofiyi Stanislavivny Berezanskoyi, 197-211. Kyiv.*

Bartelheim M.

1998 Studien zur böhmischen Aunjetitzer Kultur – Chronologische und chronologische Untersuchungen. Teil 1, 2 [Aus dem Seminar für Ur- und Frühgeschichte der Freien Universität Berlin]. In: *Universitätsforschungen zur prähistorischen Archäologie*, 46. Bonn.

Bátora J.

1998 *Príspevok k otázke kultúrnych vzťahov územia juhozápadného Slovenska k oblasti severne od Karpát v závere staršej doby bronzovej.* In: A. Koško, J. Czebreszuk (Eds) „Trzcinec”: system kulturowy czy interkulturowy proces?, 259-265. Poznań.

2006 *Štúdie ku komunikácii medzi strednou a Východnou Európou v dobe bronzovej.* Bratislava.

Bende L., Lörinczi G.

2002 Kora bronzkori temető és település a Kiskundorozmai Hosszúhát-Halm-on. In: *Studia archaeologia VIII: 77-107. Szeged.*

Benešova A.

1956 Nález měděných předmětů na Starých Zamcích v Brně-Lišni. *Památky Archeologické* 47: 236-244.

Berestnev S.I.

2001 *Vostochnoukrainskaya lesostep v epokhu sredney i pozdney bronzy (II tys. do n. e.). Kharkov.*

Berezanska S.S. = Berezanskaya S.S.

- 1964 Keramika bilohrudivskoyi kultury (za materialamy rozkopok bilia s. Sobkivka). *Arkheolohiya* 16: 49-75.
- 1986 Kultura mnogovalikovoy keramiki. In: S.S. Berezanskaya, V.V. Otroshchenko, N.N. Cherednichenko, I.N. Sharafutdinova (Eds) *Kultury epokhi bronzy na territorii Ukrainy*, 6-46. Kyiv.
- 1999 Mogilnik epokhi bronzy Gordeevka na Yuzhnom Buge. *Rossiyskaya arkheologiya* 4: 131-148.

Berezanskaya S.S., Gershekovich Ya.P.

- 1983 Andronovskie elementy v srubnoy kulture na Ukraine. *Bronzovyi vek stepnoy polosy Uralo-Irtyshskogo mezhdurechia*. 100-110. Cheliabinsk.

Berezanska S.S., Hoshko T.J., Samoliuk V.O.

- 2004 Kolektyvne pokhovannia tshinetskoyi kultury na r. Horyn. *Arkheologhiya* 1: 111-125.

Berezanskaja S.S., Kločko V.I

- 1998 Das Gräbfeld von Hordeevka. Archäologie in Eurasien. Band 5, Rahden/West.

Berezanskaya S.S., Lobay B.I.

- 1987 *Otchet o raskopkakh mogilnika epokhi bronzy u s. Gordeevka Trostianetskogo rayona Vinnitskoy oblasti* (held in the archives of IA NANU).

Berezanska S.S., Otroshchenko V.V.

- 1997 Bronzovyi vik. In: P. Tolochko (Ed.) *Davnia istoriya Ukrainy, vol. 1*, 384-544. Kyiv.

Berezanska S., Samoljuk W., Taras H.

- 2003 Cmentarzysko kurhanowe kultury trzcienieckiej z okolic Netišyna na Wołyniu (grupa I). *Archeologia Polski Środkowowschodniej* 6: 184-214.

Bertemes F.

- 1989 Das frühbronzezeitliche Gräberfeld von Gemeinlebarn. *Saarbrücker Beiträge zur Altertumskunde*, 45.

Bidzilia V. I., Yakovenko E. V.

- 1973 Ralo iz pozdneyamnogo pogrebeniya kontsa III – nachala II tysiacheletiya do n. e. *Sovetskaya arkheologiya* 3: 146-152.

Blajer W.

- 1990 Skarby z wczesnej epoki brązu na ziemiach polskich. In: *Prace Komisji Archeologicznej PAN*, 28. Wrocław.

- 1998 Przyczynek do dyskusji o znaczeniu metalurgii brązu w zachodnim odłamie kultury trzcinieckiej. In: A. Koško, J. Czebreszuk (Ed.) „*Trzciniec*”: *system kulturowy czy interkulturowy proces?*, 337-342, Poznań.
- 2000 Drugi sezon ratowniczych badań wykopaliskowych na stanowisku 5 w Lipniku, pow. Przeworsk (stan. 155 na obszarze 104-79), *Rocznik Przemyski* (1), *Archeologia*: 37-50.

Bona I.

- 1975 *Die Mittlere Bronzezeit Ungarns und ihre südöstlichen Beziehungen*. Budapest.

Bondar N.N.

- 1974 *Poseleniya Srednego Podneprovya epokhi ranney bronzy*. Kyiv.

Borziyak I.A., Manzura I.V., Levickij O.G.

- 1983 *Korzhevskie kurgany. Arheologicheskie issledovaniya v Moldaviiv 1979 – 1980 gg.* Kishinev: 3-27.

Bratchenko S.N.

- 1976 *Nizhnee Podonie v epokhu sredney bronzy (periodyzatsia i khronologiya pamiatnikov)*. Kyiv.
- 1977 K voprosu o slozhenii babinskoy kultury (mnogovalikovoy keramiki). In: D.Ya. Telegin (Ed.) *Vilnianskie kurgany v Dneprovskom Nadporozhe*, 21-43. Kyiv.
- 2001 *Donetska katakombna kultura rannioho etapu, vol. 1*. Luhansk.
- 2003 Radiocarbon chronology of the Early Bronze Age of the Middle Don. Svatove, Luhansk Region. In: A.Koško, V.I. Klochko (Ed.) *The Foundations of Radiocarbon Chronology of Cultures between the Vistula and Dnieper: 4000-1000 BC. Baltic-Pontic Studies* 12: 185-208.
- 2004 Pradavnia Slobozhanschyna: Svativsky mohyly-kurhany III tys. do n. e. ta maydany. In: *Materialy ta doslidzhennia z arkeolohiyi Skhidnoyi Ukrainy* 2: 65-190. Luhansk.
- 2012 *Leventsovskaya krepost*. Kyiv.

Bratchenko S.N., Balonov F.R., Gershkovich Ya.P.

- 2004 Drevneyshaya gruppa pogrebeniy Aleksandrovsckogo kurgana № 9 na r. Lugan. In: *Materialy ta doslidzhennia z arkeolohiyi Skhidnoyi Ukrainy*: 30-74. Luhansk.

Bratchenko S. N., Shaposhnikova O. G.

- 1985 Katakombnaya kulturno-istoricheskaya obschnost. In: I.I. Artemenko, S.S. Berezanskaya, V.D. Baran, V.A. Anokin (Eds) *Archeologia Ukrain-skoy SSR*, vol. 1: 403-419. Kyiv.

Braudel F.

- 1992 *Kultura materialna, gospodarka i kapitalizm XV-XVIII wiek. Tom 3. Czas trwania*. Warszawa.

Bronzezeit

- 2013 *Bronzezeit. Europa ohne Grenzen 4. – 1. Jahrtausend v. Chr. Ausstellungskatalog*. Sankt Petersburg.

Brovender Yu.M.

- 2009 Copper Ores of the Northern Pontic Region as Raw Materials for Production Activity in the Paleometal Age (Based on the Study of the Kartamysh Ore Mining and Metallurgy Complex). In: A. Koško, V. Klochko (Ed.) *Routes between the Seas: Baltic-Bug-Boh-Pont from the 3rd to the Middle of the 1st Millennium BC. Baltic-Pontic Studies* 14: 103-123.

Brovender Yu.M., Otroschenko V.V., Priakhin A.D.

- 2010 Kartamyskyi kompleks hirnycho-metalurhiynykh pamiatok bronozvoho viku v Tsentralnomy Donbasi. *Arkheolohiya* 2: 87-101.

Buchvaldek M.

- 1958 Hroby se šnurovou keramikou ze Sulejovic. *Památky archeologické* 49(1): 15-39.
- 1966 Die Schnurkeramik in Mitteleuropa – Zur Herausstellung der Fundgruppen und der Frage ihrer gegenseitigen Beziehungen. *Památky archeologické* 57(1): 126-171.
- 1987 Sredneevropeyskaya shnurovaya keramika i Severnoe Prichernomorie (k probleme khronologicheskikh i kulturnykh svyazey). In: K.N. Pitskhelauri, E.N Chernykh (Eds) *Kavkaz v sisteme paleometallicheskih kultur Evrazii*, 224-234. Tbilisi.
- 1997 Die südosteuropäischen Elemente in der Schnurkeramik. In: C. Becker, M.L. Duneklmann *et al.* (Eds) *Chronos. Beiträge zur prähistorischen Archäologie zwischen Nord- und Südosteuropa*, 181-185. Espelkamp.

Budziszewski J., Tunia K.

- 2000 A grave of the Corded Ware Culture arrowheads producer in Koniusza, Southern Poland. In: S. Kadrow (Ed.) *A Turning of Ages. Im Wander der Zeiten. Jubilee Book Dedicated to Professor Jan Machnik on His 70th Anniversary*, 127-130. Kraków.

Budziszewski J., Włodarczak P.

- 2010 *Kultura pucharów dzwonowatych na Wyżynie Małopolskiej*. Kraków.

Bukowski Z.

- 1976 *Elementy wschodnie w kulturze łużyckiej u schyłku epoki brązu*. Wrocław.

Buniatian K.P.

2010 Pidkarpatska kultura shnurovoyi keramiky. *Arkheolohiya* 2: 18-30.

Buniatian K.P., Kaiser E., Nikolova A.V.

2006 *Bronzezeitliche Bestattungen aus dem Unteren Dneprgebiet*. Langenweissbach.

Buniatian K.P., Samoliuk V.

2009 Manifestations of Middle Dnieper Culture in the Volyn Territory and the Issue of Ancient Routes. In: A. Koško, V.I. Klochko (Ed.) *Routes between the Seas: Baltic-Bug-Boh-Pont from the 3rd to the Middle of the 1st Millennium BC*. *Baltic-Pontic Studies* 14: 252-268.

Burtănescu F.

2002 *Epoca timpurie a bronzului între Carpați și Prut cu unele contribuții la problemele perioadei premergătoare epocii bronzului în Moldova*. București.

Bychkov N.V.

1982 *Otchet o polevykh issledovaniyakh v 1982 g.* (held in the archives of II NANB, nr. 843).

1983a *Otchet o polevykh issledovaniyakh v 1983 g.* (held in the archives of II NANB, nr. 870).

1983b *Planovaya tema za 1983 god* (held in the archives of II NANB, nr. 1275).

1985 *Issledovaniya v Gomelskoy oblasti*. In: *Arkheologicheskie otkrytiya 1983 goda*, 383. Moskva.

1989 *Planovaya tema za 1986-1989 gody* (held in the archives of II NANB, nr. 1124).

Cabalska M.

1980 *Związki między kulturą Otomani a kulturą trzcieniecką*. *Archeologia Polski* 29: 53-65.

Catling H.W.

1964 *Cypriot bronzework in the Mycenaean world*. Oxford.

Chebotarenko G.F., Yarovoj E.V., Telnov N.P.

1989 *Kurgany Budzhakskoj stepi*. Kishinev.

Cherniakov I.T.

1979 *Kulturno-khronologicheskoe svoeobrazie pamiatnikov epokhi bronzy Severo-Zapadnogo Prichernomoria*. In: *Problemy epokhi bronzy yuga Vostochnoy Evropy: tezisy dokladov konferentsii; Donetsk 3-6 dekabria 1979 g.*, 8-10. Donetsk.

- 1996 Kultura mnogovalikovoi keramiki – vostochnyi areal balkano-dunaiskogo ochaga kulturogeneza. In: *Severo-Vostochnoe Priazovie v sisteme evraziyskikh drevnostey (eneolit - bronzovyi vek. Materialy mezhdunarodnoy konferentsii, vol. 1, 59-64. Donetsk.*

Chernykh E.N.= Chernykh Y.N.

- 1967 *Istoriya drevneyshey metallurgii Vostochnoy Evropy.* Moskva
 1976 *Drevniyametalloobrabotka na Yugo-Zapade SSSR.* Moskva.
 1978 *Gornoe delo i metallurgiya v drevneyshey Bolgarii.* Sofia.
 1992 *Ancient Metallurgy in the USSR. The Early Metal Age.* Cambridge.

Chernykh E.N., Avilova L.L., Orlovskaya L.B.

- 2000 *Metallurgicheskie printsii i radiouglerodnaya khronologiya.* Moskva

Chernykh E.N., Orlovskaya L.B.

- 2004 Radiouglerodnaya khronologiya katakombnoy kulturno-istoricheskoy obschnosti (sredniy bronzovyi vek). *Rossiyskaya Arkheologiya* 2:15-29.

Chernykh L.A.

- 2003 O vozmozhnosti ispolzovaniya medno-rudnikh istochnikov Donbassa v period eneolita, runney i sredney bronzy. In: *Problemy girnichoyi archeologii.* 212-223. Alchevsk.
 2011 Bronzovye nozhi iz pamiatnikov katakombnoy KIO Ukrainy (klassifikatsia po vyborke predmetov – predvaritelnye itogi). In: *Problemy hirnychoi arkheologii (Materialy VIII-ho mizhnarodnoho Kartamyskoho poliovoho seminaru),* 23-79. Alchevsk.

Chernykh L.A., Pleshivenko A.G.

- 1993 Pogrebeniye liteyshchika katakombnoy kultury u s. Vasilievka. In: *Khoziaystvo drevnego naseleniya Ukrainy, vol. 2, 244-267.* Kyiv.

Chomentowska B.

- 1964 Masowy grób kultury trzcienieckiej w Kosinie, pow. Kraśnik. *Światowit* 24: 237-251.

Ciugudean H.

- 2011 Mounds and Mountains: Burial Rituals in Early Bronze Age Transylvania. In: Berecki S.; Németh R.E.; Rezi B. (Eds). *Bronze Age Rites and Rituals in the Carpathian Basin:* 21-59. Târgu Mureş.

Coirvuc V., Dumitroaia G. (Eds)

- 2001 *Cultura Costișa în contextul epocii bronzului din România.* Piatra-Neamț.

Czopek S.

- 1996 *Grupa tarnobrzaska nad środkowym Sanem i dolnym Wisłokiem*. Rzeszów.
- 2003 Między Południem a Wschodem – importy i naśladownictwa ceramiki w materiałach grupy tarnobrzaskiej. In: J. Gancarski (Ed.) *Epoka brązu i wczesna epoka żelaza w Karpatach polskich*, 215-238. Krosno.

Dascălu L.

- 2007 *Bronzul mijlociu si tarziu in Campia Moldovei*. Iasi.

Dashevska O.D., Golentsov A.S.

- 2003 Zakhidnodonuzlavskiy kurhan doby bronzы. *Arkheolohiya* 3: 5-15.

David V.

- 2002 *Studien zu Ornamentik und Datierung der bronzezeitlichen Depotfundgruppe Hajdúsámson-Apa-Ighiel-Zajta*. Alba Iulia-Karlsburg/Weissenburg.

Dąbrowski J.

- 1977 Oddziaływania śląsko-wielkopolskie na metalurgię kultury trzcinieckiej. In: B. Gediga (Ed.) *Geneza kultury łużyckiej na terenie Nadodrza*, 201-224. Wrocław.
- 2004 *Ältere Bronzezeit in Polen*. Warszawa.
- 2009 *Polska przed trzema tysiącami lat. Czasy kultury łużyckiej*. Warszawa.

Dąbrowski J., Okuliczowa Ł.

- 1962 Skarb brązowy ze Stawiszyc, pow. Pińczów. *Wiadomości Archeologiczne* 28: 243-250.

Dergachev V.A.

- 1986 *Moldaviya i sosednie territorii v epokhu bronzы*. Kishinev.
- 1994 Epoca bronzului. Perioada timpurie. *Thraco-Dacica* 15(1-2): 121-140.
- 1998 Entwicklungen im Raum zwischen Karpaten und Dnepr. In: B. Hänsel, J. Machnik (Eds) *Das Karpatenbecken und die osteuropäische Steppe*, 27-64. München.
- 1999 Osobennosti kulturno-istoricheskogo razvitiya Karpato-Podnestrovia. K probleme vzaimodeystviya drevnikh obschestv Sredney, Yugo-Vostochnoy i Vostochnoy Evropy. *Stratum plus* 2: 169-221.
- 2011 *Topory-kelty pozdney bronzы Karpato-Podunavia, vol. 2*. Chişinău.

Dergachev V.A., Bochkarev V.S.

- 2002 *Metallicheskie serpy pozdney bronzы Vostochnoy Evropy*. Chişinău.

Dergachev V.A., Savva E.N.

- 1985 Raskopki kurganov u s. Kotjala. In: *Archeologicheskie issledovaniya v Moldavii* (1981 g.), 64-82. Kishinev.

- Diachenko O.V.
2007 Problema istorychnykh interpretatsiy trypils'koi kultury. *Arkheolohiya* 2:83-91.
- Dobrzańska H., Rydzewski J.
1992 Elementy zakarpackie w materiałach kultury trzcinieckiej w Mysławczycach. *Acta Archaeologica Carpatica* 31: 91-106.
- Dovzhenko N.D.
1991 Kamiani statui v pokhovalnomu obriadi katakombnykh plemen Pivnichnoho Prychornomia. In: M.M. Bondar (Ed.) *Pokhovalnyi obriad davnioho naseleattia Ukrainy*, 122-133. Kyiv.
- Dovzhenko N.D., Soltis O.B.
1991 O traditsii izobrazheniya "stop" v pogrebalnom obriadye katakombnykh kultur Severnogo Prichernomia. In: *Katakombnye kultury Severnogo Prichernomia*, 117-127. Kyiv.
- Dresely, V.
2004 *Schnurkeramik und Schnurkeramiker im Taubertal*. Stuttgart.
- Dresely V., Müller J.
2001 Die absolutchronologische Datierung der Schnurkeramik im Tauber-und Mittelelbe-Saale-Gebeit. In: J. Czebruszek, J. Müller (Eds) *Die absolute Chronologie im Mitteleuropa 3000–2000 v. Chr. Studien zur Archäologie in Ostmitteleuropa*, vol. 1, 287-318. Poznań–Bamberg.
- Dumitroaia Gh.
2000 *Comunități preistorice din nord-estul României. De la cultura Cucuteni până în bronzul mijlociu*. Piatra-Neamț.
- Duffy P. R.
2010 *Complexity and autonomy in Bronze Age Europe: assessing cultural developments in Eastern Hungary: a dissertation submitted for the degree of Doctor of Philosophy (Anthropology)*. Michigan
- Dvorianinov S.A., Petrenko V.G., Rychkov N.A.
1981 K izucheniyu orientirovki yamnykh pogrebeniy. In: V.N. Stanko (Ed.) *Drevnosti Severo-Zapadnogo Prichernomia*, 22-38. Kyiv.
- Egg M.
1992 Zur Ausstattung des Toten vom Hauslabjoch, Gem. Schnals (Sudtiro). In: F. Hopfel, W. Platzer, K. Spindler (Eds) *Der Mann im Eis*, 254-272. Innsbruck.

Evdokimov G.L.

- 1980 O kulturno-khronologicheskikh razlichiyakh katakombnykh pamiatnikov Nizhnego Podneprovia, Priazovia i Kryma. In: *Arkheologicheskie issledovaniya na Ukrainie v 1978-1979 gg. Tezisy dokladov XVIII konferentsii IA AN USSR*, 48-50. Dnepropetrovsk.
- 1987 K voprosu o roli donetskoj katakombnoy kultury v slozhenii katakombnykh kultur Severnogo Prichernomorja. In: *Problemy okhrany i issledovaniya pamiatnikov arkheologii v Donbasse. Tezisy*, 46-48. Donetsk.

Fasani L.

- 1984 L'età del Bronzo. In: A. Aspes (Ed.) *Veneto nell'antichità, Preistoria e Protostoria*, vol. II, 451-533. Verona.
- 1988 La sepoltura e il forno di fusione La Vela di Valbusa (Trento). *Preistoria Alpina* 24: 165-181. Trento.

Feschchenko E.L.

- 1992 Izdelia iz metalla v katakombnykh pogrebeniyakh Dneprovskogo predstepiya. In: *Problemy arkheologii Podneprovia*, 84-101. Dnepropetrovsk.

Florescu M.

- 1964 Contributii la cunoașterea culturii Noua. *Arheologia Moldovei* 2-3: 143-216.
- 1970 Problèmes de la civilisation de Costișa à la lumière du sandage de Borlești. *Dacia* 14: 51-81.

Fokkens H., Achterkamp Y., Kuijpers M.

- 2008 Bracers or Bracelets? About the Functionality and Meaning of Bell Beaker Wrist-guards. *Proceedings of the Prehistoric Society* 74: 109-140.

Furmánek V., Veliačik L., Vladár J.

- 1991 *Slovensko v dobe bronzovej*. Bratislava.

Gajewski L.

- 1969 Fin du néolithique - début de la période de Hallstatt. *Inventaria Archaeologica Pologne* 22: Planche 130-136.

Gancarski J.

- 1994 Pogranicze kultury trzcinieckiej i Otomani-Füzesabony – grupa jasielska. In: *Problemy kultury trzcinieckiej*, 75-104. Rzeszów.
- 1999 Chronologia grupy pleszowskiej kultury mierzanowickiej i kultury Otomani-Füzesabony w Polsce na podstawie wyników badań wykopaliskowych osad w Trzcinicy i Jaśle. In: J. Gancarski (Ed.) *Kultura Otomani-Füzesabony – rozwój, chronologia, gospodarka*, 145-180. Krosno.
- 2011 *Trzcinica – karpacka Troja*. Krosno.

- Gancarski J. (Ed.)
2002 *Między Mykenami a Bałtykiem. Kultura Otomani-Füzesabony*. Krosno-Warszawa
- Gardawski A.
1959 Plemiona kultury trzcinieckiej w Polsce. *Materiały Starożytne* 5: 7-189.
- Gardawski A., Wesołowski K.
1956 Zagadnienie metalurgii kultury trzcinieckiej w świetle „skarbów” z Dratowa, pow. Puławy i Rawy Mazowieckiej. *Materiały Starożytne* 1: 59-103.
- Gebers W.
1978 Endneolithicum und Frühbronzezeit im Mittelrheingebiet. Katalog. *Saarbrücker Beiträge zur Altertumskunde* 28.
- Gedl M.
1975 *Kultura przedłużycka*. Wrocław-Warszawa-Kraków-Gdańsk.
1985 *Epoka brązu i wczesna epoka żelaza w Europie*. Kraków.
- Gening V.V., Korpusova V.N.
1989 *Arkheologicheskie pamyatniki Krymskogo Prisivashya*. Kurgany u s. Istochnoe i s. Bolotnoe. Kiev
- Gershkovich Ya.P.
1997 Proiskhozhdeniye i evolutsiya sabatinovskogo keramicheskogo kompleksa. *Arkheologicheskiy almanakh* 6: 125-144.
- Gey A.N.
2000 *Novotitorovskaya kultura*. Moskva.
2011 Spornye voprosy i perspektivy izucheniya katakombnoy kulturno-istoricheskoy obshchnosti. *Kratkie soobscheniya Instituta Arkheologii* 225: 3-10.
- Gimbutas M.
1965 *Bronze Age Cultures in Central and Eastern Europe*. Paris-Hague-London.
- Girić M.
1971 Mokrin: nekropola ranog bronzanog doba. In: *Dissertationes et monographiae XI*. Beograd.
- Glosik J.
1968 Kultura strzyżowska. *Materiały Starożytne* 11.
- Gorodtsov V.A.
1905 Rezultaty arkheologicheskikh issledovaniy v Iziumskom uezdie Kharkovskhoy gubernii 1901 goda. In: *Trudy XII Arkheologicheskogo Syezda*, vol. 1, 174-225. Moskva.

Goshko T., Manichev V., Pryimachenko V., Bondarenko I.

- 2009 Doslidzhennia kolorovoho metalu doby piznioi bronzы z terytorii Pravoberezhnoi lisostepovoi Ukrainy. In: V.V. Otruschenko (Ed.) *Vzaemozviazky kultur epokh bronzы i rannoho zaliza na terytorii Tsentralnoi ta Skhidnoi Evropy. Zbirka naukovykh prats na poshanu Larysy Ivanivny Krushelnytskoi*, 99-118. Kyiv, Lviv.

Górski J.

- 1994 Materiały kultury trzcienieckiej z kopca wschodniego w Rosiejowie. *Materiały Archeologiczne Nowej Huty* 17: 41-64.
- 1995 Grób z początków starszego okresu epoki brązu ze stanowiska 17 w Nowej Hucie-Pleszowie. *Materiały Archeologiczne Nowej Huty* 18: 17-21.
- 1998 Transkarpackie kontakty ludności zachodniej Małopolski w początkach epoki brązu w świetle najnowszych odkryć w Karpatach (próba interpretacji niektórych znalezisk). In: J. Gancarski (Ed.) *Dzieje Podkarpacia* vol. 2, 201-214. Krosno.
- 1999 Die Beziehungen zwischen dem westlichen Kleinpolen und dem Gebiet der Slowakei in der klassischen Phase der Trzciniec-Kultur (ausgewählte Aspekte). In: J. Batora, J. Peska (Eds) *Aktuelle Probleme der Erforschung der frühbronzezeit in Böhmen und Mähren in der Slowakei*, 251-265. Nitra.
- 2003 Uwagi o datowaniu i kontekście znalezisk ceramiki o „cechach południowych” w strefie zasięgu kultury trzcienieckiej. In: J. Gancarski (Ed.) *Epoka brązu i wczesna epoka żelaza w Karpatach polskich*, 89-137. Krosno.
- 2007 *Chronologia kultury trzcienieckiej na lessach niecki nidziańskiej*. Kraków.
- 2012 Transcarpathian elements in the Trzciniec culture. Wanderings of people or ideas? In: R. Kujovský, V. Mitáš (Eds) *Václav Furmáněk a doba bronzová. Zborník k 70. Narodeninám*, 89-97. Nitra.

Górski J., Jarosz P.

- 2006 Cemetery of the Corded Ware and the Trzciniec Cultures in Gabułów. *Sprawozdania Archeologiczne* 58: 401-453.

Górski, J., Lysenko, S., Makarowicz, P.

- 2003 Radiocarbon Chronology of the Trzciniec Cultural Circle between the Vistula and Dnieper Basins. In: A.Koško, V.I. Klochko (Ed.) *The Foundations of Radiocarbon Chronology of Cultures between the Vistula and Dnieper: 4000-1000 BC. Baltic-Pontic Studies* 12: 253-306.

Górski P., Makarowicz P.

- 2007 Reception of Transcarpathian influence in Trzciniec Cultural Circle as a Sign of Long-Distance Exchange Contacts. In: J. Baron, I. Lasak (Eds) *Long Distance Trade in the Bronze Age and Early Iron Age*, 101-116. Wrocław.

- Górski J., Makarowicz P., Wawrusiewicz A.
2011 *Osady i cmentarzyska społeczności trzcinieckiego kręgu kulturowego w Polesiu, stanowisko I, województwo łódzkie*. Łódź.
- Górski J., Wróbel J.
2000 Zbiorowy grób szkieletowy kultury trzcinieckiej z Nowej Huty-Cła, stan. 65. *Materiały Archeologiczne Nowej Huty* 22: 21-34.
- Grigoriev S.A.
2002 *Ancient Indo-Europeans*. Cheliabinsk.
- Grygiel R.
1987 Z badań nad kulturą trzciniecką w rejonie Brześcia Kujawskiego. In: *Kultura trzciniecka w Polsce*, 73-88. Kraków.
- Hafner A., Suter P.J.
2003 Vom Endneolithikum zur Frühbronzezeit: Wandel und Kontinuität zwischen 2400 und 1500 V. Chr. *Archäologisches Korrespondenzblatt* 33 (3): 325-339.
- Harrison R.J., Heyd V.
2007 The Transformation of Europe in the Third Millennium BC: The Example of 'Le Petit Chasseur I+III' (Sion, Valais, Switzerland). *Praehistorische Zeitschrift* 82 (2): 129-214.
- Heyd V.
2011 Yamnaya Groups and Tumuli West of the Black Sea. In: E. Borgna, S. Müller-Celka (Eds) *Ancestral Landscapes: Burial mounds in the Copper and Bronze Ages*, 529-549. Lyon.
- Honti S., Kiss V.
2013 Bronze hoard from Zalasabar. New Data on the Study of the Tolnanémedi Horizon – Part 2. In: A. Anders, G. Kulcsár *et al.* (Eds) *Moments in Time. Papers presented to Pál Raczky on His 60th Birthday*, 739-755. Budapest.
- Hundt H.J.
1958 Katalog Straubing I. Die Funde der Glockenbecher-kultur und der Straubinger Kultur. In: *Materialhefte zur Bayerischen Vorgeschichte* 11(1). München.
- Hübner E.
2005 *Jungneolithische Gräber auf der jütischen Halbinsel. I: typologische und chronologische Studien zur Einzelgrabkultur*. København
- Ignaczak M., Koško A., Szmyt M. (Eds)
2011 *Między Bałtykiem a Morzem Czarnym. Szlaki międzymorza IV–I tys. przed Chr. Archeologia Bimaris. Dyskusje 4*. Poznań

Iliukov L.C.

- 1985 Pogrebeniya lityeshikov epokhi sredney bronzы iz Severo-Vostochnogo Priazovia. *Sovetskaya Arkheologiya* 2: 226-231.

Isaenko V.F.

- 1976 *Neolit Pripiatskogo Polesiya*. Minsk.

Isaenko V.F., Cherniavskiy M.M.

- 1967 Novye dannye po spornym voprosam bronzovogo veka Belorussii. In: *Belorusskie drevnosti*, 155-181. Minsk.

Ivanova S.V.

- 2010 Torgovye puti i migratsii v Yugo-Vostochnoy Evrope v rannem bronzovom veke. *Materialy po archeologii Severnogo Prichernomoria* 11: 158-248.
- 2013 Kulturno-istoricheskie kontakty naseleniya Severo-Zapadnogo Prichernomoria v rannem bronzovom veke: Zapad-Vostok. Kulturno-istoricheskie kontakty naseleniya. *Stratum plus* 2: 158-248.

Ivanova S.V., Ostroverkhov A.S., Savelev O.K., Ostapenko P.V.

- 2012 *Ocherki istorii i arkheologii Dnestro-Bugskogo mezhdurechia*. Kyiv.

Ivanova S.V., Petrenko V.G. Vetchinnikova N.E.

- 2005 *Kurgany drevnikh skotovodov mezhdurechia Yuzhnogo Buga i Dnestra*. Odessa.

Ivanova S.V. Savelev O.K.

- 2011 Kurgan bilya s. Sichavka Odeskoї oblasti. *Arheologiya* 3: 70-82.

Kadrow S. =Kadrov S.

- 1995 *Gospodarka i społeczeństwo. Wczesny okres epoki brązu w Małopolsce*. Kraków.
- 1998 Osteuropäische Beziehungen des epischurkeramischen karpatenländischen Kulturkreises in der Frühbronzezeit. In: B. Hänsel, J. Machnik (Eds) *Das Karpatenbecken und die osteuropäische Steppe*, 251-260. München.
- 2000 Wczesnobrązowa wytwórczość metalurgiczna w stylu wierzbowego liścia. In: J. Rydzewski (Ed.) *150 lat Muzeum Archeologicznego w Krakowie*, 141-153. Kraków.
- 2001 *Uprogu nowej epoki. Gospodarka i społeczeństwo wczesnego okresu epoki brązu w Europie Środkowej*. Kraków.

Kadrow S., Górski J.

- 2003 Diachronic Micro-Regional Studies concerning Settlement on the Loess Uplands of Southeastern Poland in the Bronze Age. In: H. Thrane (Ed.) *Diachronic Settlement Studies in the Metal Ages*, 71-97. Aarhus.

Kadrow S., Machnik J.

- 1997 *Kultura mierzanowicka. Chronologia, taksonomia i rozwój przestrzenny.* Prace komisji archeologicznej. 29. Kraków.

Kaiser E.

- 1997 Der Hort von Borodino. In: *Universitätsforschungen zur prähistorischen Archäologie* 44. Berlin.
- 2003 Studien zur Katakombengrabkultur zwischen Dnepr und Prut. In: *Archäologie in Eurasien* 14. Mainz.
- 2009 Problemy absolutnogo datirovaniya katakombnoy kultury Severnogo Prichernomoria. *Tyragetia (serie nouă)* 3 (18/1): 59-70.
- 2012 Problemy absolutnogo datirovaniya katakombnoy kultury Severnogo Prichernomoria. *Kratkie soobscheniya Instituta Arkheologii* 225: 15-27.

Kaiser E., Plešivenko A.G.

- 2000 Die bronzezeitlichen Grabsitten im unteren Dneprgebiet. *Eurasia Antiqua* 6: 125-208.

Kalicz N.

- 1968 *Die Frühbronzezeit in Nordostungarn.* Budapest.

Kalicz-Schreiber R.

- 1989 *Die älteste Bronzezeit in Nordwestungarn und ihre Beziehungen.* Praehistorica. XV–XIV: 249-255.

Katincharov R.

- 1987 Ranniy bronzovyi vek Frakii i ego kulturnye sviazi i vzaimootnosheniya s sosednimi oblastiami. In: K.N. Pitskhelauri, E.N Chernykh (Eds) *Kavkaz v sisteme paleometallicheskih kultur Evrazii*, 168-175. Tbilisi.

Kazarnitskiy A.A.

- 2013 Kraniologia naseleniya babinskoy kultury. *Vestnik arkheologii, antropologii i etnografii* 2 (21): 70-78.

Kamenskij A.G.

- 1990 Rezultaty spektralnogo i metallograficheskogo issledovaniya metallicheskih predmetov iz pamyatnikov epoxi bronzы s territorii Moldovy (Prilozhenie 5). In: E.V. Yarovoj (Ed.) *Kurgany eneolita-bronzы Nizhnego Podnestrovyia. Kishinev*, 247-258.

Kempisty A.

- 1978 *Schyłek neolitu i początek epoki brązu na Wyżynie Małopolskiej w świetle badań nad kopcami.* Warszawa.

Kiyashko A.V.

- 1999 *Proiskhozhdeniye katakombnoy kultury Nizhnego Podonia.* Volgograd.

Klein L.S.

- 1962 Katakombnye pamiatniki epokhi bronzy i problema vydeleniya arkhelohicheskikh kultur. *Sovetskaya arkheologiya* 2: 26-38.
- 1970 Katakombnaya kultura ili katakombnye kultury? In: B.A. Kolchin, Ya.A. Sher (Eds) *Statistiko-kombinatornye metody v arkheologii*, 165-179. Moskva.
- 1975 Retsenziya na: Kurgany stepnoy chasti mezhdurechia Dunaya i Dnestra. *Sovetskaya arkheologiya* 1: 297-304.

Klochko E.O

- 1990 Redkiy pogrebalnyi kompleks katakombnoy kultury na Srednom Dnestre. In: O.G. Shaposhnikova, V.V. Otroschenko, S.Z. Pustovalov, G.N. Toshev, G.I. Shapovalov (Eds) *Problemy izucheniya katakombnoy kulturno-istoricheskoy obschnosti*, 28-30. Zaporozhie

Klochko V.I.

- 1994 Metallurgicheskoe proizvodstvo v eneolite-bronzovom veke. In: I.T. Cherniakov (Ed.) *Remeslo epokhi eneolita-bronzy na Ukraine*, 96-132. Kyiv.
- 1998 „Loboykivska metalurhiya” (do problemy skhidnoho kordonu skhidnotshynetskoj kultury). In: A.Koško, J.Czebreszuk (Eds) „*Trzciniac*”: *system kulturowy czy interkulturowy proces?*, 217-237. Poznań.
- 2001 Weaponry of Societies of the Northern Pontic Culture Circle: 5000-700 BC. *Baltic-Pontic Studies* 10.
- 2004 Metalurhiya trypilskoj kultury (dosiahnennia ta perspektyvy vyvchennia). In: M.Videiko (Ed.) *Entsyklopediya trypilskoj tsyvilizatsiyi I*: 219-222. Kyiv.
- 2006 *Ozbroyennia ta viyskova sprava davnoho naseleння Ukrainy (5000-900 r. do R.Kh.)*. Kyiv.
- 2008 Torhovelnii shliakh Bug-Bog. In: J. Bednarczyk, J. Czebreszuk, P. Makarowicz, M. Szmyt (Eds) *Na pograniczu światów. Studia z pradziejów międzymorza bałtycko-pontyjskiego ofiarowane Profesorowi Aleksandrowi Koško w 60. rocznicę urodzin*, 239-249. Poznań.
- 2012 „Hordiyivskiy fenomen”. In: W. Blajer (Ed.) *Peregrinationes archaeologicae in Asia et Europa Joanni Chochorowski dedicatae*, 395-404. Kraków.

Klochko V.I., Koško A.

- 2009 The Societies of Corded Ware Cultures and Those of Black Sea Steppes (Yamnaya and Catacomb Grave Cultures) in the Route Network Between the Baltic and Black Seas. In: A. Koško, V.I. Klochko (Eds) *Routes between the Seas Baltic-Bug-Boh-Pont from the 3rd to the Middle of the 1st Millennium BC*. *Baltic-Pontic Studies* 14: 269-301.

Klochko V.I., Koško A., Szmyt M.

- 2003 A comparative chronology of the Prehistory of the area between the Vistula and Dnieper: 4000-1000 BC. In: A. Koško, V.I. Klochko (Eds) *The Foundations of Radiocarbon Chronology of Cultures between the Vistula and Dnieper: 4000-1000 BC. Baltic-Pontic Studies* 12: 396-414.

Klochko V.I., Kozymenko A.V.

- 2011 *Nash nedavniy bronzovyi vek*. Kyiv.

Klochko V.I., Kravets D.P.

- 1991 K absoliutnoy khronologii kultury mnogovalikovoy keramiki. In: M.T. Kaszuba (Ed.) *Drevneyshie obshchnosti zemledeltsev i skotovodov Severnogo Prichernomia (5000 do n.e. – 500 n.e.)*: 115-116. Kishyniev.

Kloczko W.I., Manichev V.I., Kompanec G.S., Kovalchuk M.S.

- 2003 Wychodnie rud miedzi na terenie Ukrainy zachodniej jako baza surowcowa metalurgii kolorowej w okresie funkcjonowania kultury trypolskiej. *Folia Praehistorica Posnaniensia XXI*: 47-78.

Klochko V.I., Manichev V.I., Kvasnisa V.N., Kozak S.A. Demchenko L.V., Sokhatskiy M.P.

- 2000 Issues concerning Tripolye metallurgy and the Virgin copper of Volhynia. In: A.Koško (Ed.) *The Western Border Area of the Tripolye Culture. Baltic-Pontic Studies* 9: 168-186.

Klochko V.I., Tkachuk T.M.

- 1999 Skarb doby rannoi bronzы z s. *Pidhirtsi ta pytannia pokhodzhennia sokyr typu „Stublo”*. In: *Archeolohichni vidkryttia v Ukraini 1998-1999*: 94-95. Kyiv.

Kłoczko W.I., Koško A., Razumow S., Włodarczak P.

- 2014 Problem dniestrzańsko – wiślańskiego szlaku w bałtyckich intruzjach społeczności kultur jamowej i katakumbowej. Zarys aktualnego stanu badań. In: A. Koško, M. Potupczyk, S. Razumow (Eds) *Naddniestrzańskie kompleksy cmentarzysk kurhanowych społeczności z III i z pierwszej połowy II tysiąclecia BC w okolicach Jampola, obwód winnicki. Z badań nad północno – zachodnią rubieżą osadnictwa społeczności kręgu kultur wczesnobrązowych strefy pontyjskiej (badania z lat 1984-2010)*, *Archeologia Bimaris, Monografie 6*, Poznań. (in print)

Kłosińska E.

- 1997 *Starszy okres epoki brązu w dorzeczu Warty*. Wrocław.

Kolosovskiy Y.V.

- 2000 *Arkheologicheskie issledovaniya v 2000 godu* (held in the archives of II NANB).
- 2001 *Otchet ob arkheologicheskikh issledovaniyakh v 2001 godu* (held in the archives of II NANB, nr. 1926).
- 2002 *Otchet ob arkheologicheskikh issledovaniyakh na gorodische Kimborovka v 2002 godu* (held in the archives of II NANB, nr. 2049).

Kopytsin V.F.

- 2004 *Arkheologicheskie pamiatniki Glusskogo rayona Mogilevskoy oblasti. Mogilev.*

Korenevsky S.N.

- 1974 O metallicheskih toporakh maykopskoi kultury. *Sovetskaya arkheologiya* 4: 16-31.
- 1976 O metallicheskih toporakh Severnogo Prichernomia i Nizhnego Povolzhia epokhi sredney bronzы. *Sovetskaya Arkheologiya* 4: 16-31.
- 1981 Vtulchatye topory – oruzhie blizhnego boya epokhi sredney bronzы Severnogo Kavkaza. In: B.A. Litvinskiy (Ed.) *Kavkaz i Sredniaya Aziya v drevnosti i srednevekovie*, 20-41. Moskva.

Korpusova V.N., Liashko S.N.

- 1990 Katakombnoe pogrebeniye s pshenitsey v Krimu. *Sovetskaya arkheologiya* 3: 166-175.

Koschik H.

- 1981 Die Bronzezeit im Südwestlichen Oberbayern. In: *Materialhefte zur Bayerischen Vorgeschichte. Reihe A. 50. Kallmünz.*

Kostrzewski J.

- 1928 Groby eneolityczne ze szkieletami skurczonymi w Białym Potoku (w pow. Czortkowskim). *Przegląd Archeologiczny* 3: 9-18.
- 1928a Przyczynki do epoki bronzowej na Wołyniu. *Przegląd Archeologiczny* 3: 111-115.
- 1938-1948 *Od mezolity do okresu wędrówek ludów*. In: Encyklopedia Polska. T. IV. *Kraków.*
- 1964 Skarby i luźne znaleziska metalowe od eneolitu do wczesnego okresu żelaza z górnego i środkowego dorzecza Wisły i górnego dorzecza Watry. *Przegląd Archeologiczny* 15: 3-78.

Kośko A.

- 1991 The Vistula-Oder Basins and North Pontic Region. *The Journal of Indo-European Studies* 19(3-4): 235-257.
- 2002 Fluted Maces in Cultural Systems of the Borderland of Eastern and We-

stern Europe: 2350 – 800 BC. Taxonomy, Genesis, Function. In: A.Koško (Ed.) *Fluted Maces in the System of Long-Distance Exchange Trails of the Bronze Age: 2350 – 800 BC. Baltic-Pontic Studies* 11: 31-81.

- 2011 Z badań nad kontekstem kultur wczesnobrązowych strefy pontyjskiej w rozwoju społeczności środkowoeuropejskich obszaru dorzecza Wisły w III tys. przed Chr. In: U. Stankiewicz, A. Wawrusiewicz (Eds) *Na rubieży kultur. Badania nad okresem neolitu i wczesnego brązu w Polsce Północno - Wschodniej*, 183-195. Białystok.

Koško A., Klochko V.I.

- 2009 Transit Routes between the Baltic and Black Seas: Early Development Stages – from the 3rd to the Middle of the 1st Millennium BC. An Outline of Research Project. In: A.Koško, V.Klochko (Ed.) *Routes between the Seas: Baltic-Bug-Boh-Pont from the 3rd to the Middle of the 1st Millennium BC. Baltic – Pontic Studies* 14: 9-18.

Koško A., Klochko V.I., Olszewski A.

- 2012 Ritualniy obiekt naseleńnia prichornomorskoyi kulturnoyi spilnoty doby rannoyi bronzы na r. San. *Arkheologia* 2: 67-75.

Koško A., Potupczyk M., Razumow S. (Eds)

- 2014 *Naddniestrzańskie kompleksy cmentarzysk kurhanowych społeczności z III i z pierwszej połowy II tysiąclecia BC w okolicach Jampola, obwód winnicki. Z badań nad północno – zachodnią rubieżą osadnictwa społeczności kręgu kultur wczesnobrązowych strefy pontyjskiej (badania z lat 1984-2010), Archeologia Bimaris, Monografie 6. Poznań. (in print)*

Kovaleva I.F.

- 1979 Vytianutye pogrebeniya Dneprovskogo areala Volgo-Dneprovskoy kulturno-istoricheskoy obschnosti epokhi eneolita. In: I.F. Kovaleva (Ed.) *Kurgannye drevnosti stepnogo Podneprovia III – I tys. do n.e.* vol. 3, 61-79. Dnepropetrovsk.
- 1983 *Pogrebalnyi obriad i ideologiya rannikh skotovodov. (Po materialam bronzovogo veka Levoberezhnoy Ukrainy)*. Dnepropetrovsk.
- 1995 Metallicheskie topory postmariupolskoy kultury. In: *Problemy arkheologii, drevney i srednevekovoї istorii Ukrainy. Tezisy dokladov nauchnoi konferentsii*, 28-30. Kharkov.

Kovalova I.F., Volkoboy S.S.

- 1976 Mayivskiyi lokalniy variant zrubnoi kultury. *Arkheologia* 20: 3-22.

Kovaleva I.F., Volkoboy S.S., Larina Z.P.

- 1977 Issledovaniya kurgannykh mogilnikov u s. Verkhniaya Mayevka v stepnom mezhdurechie rek Oreli i Samary. In: *Kurgannye drevnosti stepnogo Podneprov'ia III – I tys. do n.e.*, 8-113. Dnepropetrovsk.

Krainov D.A.

- 1972 *Drevneyshaya istoriya Volgo-Okskogo mezhdurechia. Fatianovskaya kultura. II tysiacheletie do n.e.* Moskva.
- 1987 Fatianovskaya kultura. In: O.N. Bader, D.A. Krainov, M.F. Kosarev (Eds) *Epokha bronzy lesnoy polosy SSSR*, 58-76. Moskva.

Krauss R.

- 1977 Poglady na kształtowanie się kultury lużyckiej w południowo-wschodniej Polsce. *Materiały Archeologiczne* 17: 5-51.

Krivtsova-Grakova O.A.

- 1955 Stepnoye Povol'ye i Prichernomor'ye v epokhu pozdney bronzy. In: *Materialy I issledovaniya po archeologii SSSR* 46. Moskva.

Krushelnytska L.I.

- 1985 *Vzaemov'iazky nasele'nnia Prykarpattia i Volyni z plemenami skhidnoyi i tsentralnoyi Evropy.* Kyiv.
- 1999 Etnokulturnyi rozvytok nasele'nnia skhidnokarpatskoho rehionu v dobu serednioyi i piznioyi bronzy. In: *Etnogenez ta etnichna istoriya nasele'nnia ukrainskykh Karpat*, 124-144, Lviv.

Kruts S.I.

- 1977 *Nasele'niye Stepnoy Ukrainy v epokhu eneolita-bronzy (po antropologicheskim dannym). Avtoreferat dissertatsii na soiskaniye uchonoj stepeni kandidata istoricheskikh nauk.* Kyiv.
- 1984 *Paleoantropologicheskie issledovaniya Stepnogo Podneprov'ia (epokha bronzy).* Kyiv.

Kruts S.I., Kubyšev A.I., Otroščenko V.V., Pustovalov S.Ž.

- 1991 Das menschliche Gesicht der Bronzezeit. In: R.Rolle, M. Müller-Wille, K. Schietzel (Eds) *Gold der Steppe. Archäologie der Ukraine*, 51-53. Schleswig.
- 1997 Antropologichnyi sklad nasele'nnia. In: P. Tolochko (Ed.) *Davn'ia istoriya Ukrainy*. vol.1, 374-383. Kyiv.

Kryvaltsevich M.M. (=Krivaltsevich N.N.)

- 1999 *Aziarnoe I – paselischa epokhi bronzy na pounachy Palessya.* Minsk.
- 2001 Supolnastsi Belaruskaga Palessya i lesastepau-stepau u epokhu bronzy: problemy kulturnykh suviaz'iu. In: J. Czebreszuk, M. Kryvaltsevič,

- P. Makarowicz (Eds) *Od neolityzacji do początków epoki brązu: przemiany kulturowe w międzyrzeczu Odry i Dniepru między VI i II tys. przed Chr.*, *Archeologia Bimaris. Dyskusje* 2, 315-326. Poznań.
- 2004 Belaruskaie Palessie u peryad perahodu ad nealitu da epokhi bronzы: pablemy i perspektyvy arkhealogichnaga vyvuchennya. In: A. Koško (Ed.) *Wspólnota dziedzictwa kulturowego ziem Białorusi i Polski*, 137-162. Warszawa.
- 2005 Mnogovalikovaya keramika na territorii Belarusi. In: V.V. Otroshenko (Ed.) *Na poshanu Sofii Stanislavivni Berezanskoyi. Zbirka naukovykh prats*, 149-156. Kyiv.
- 2006 *Mogilnik siaredziny III– pachatku II tysiachagoddziau da n.e. na Verkhnim Dniapry – Prorva I*. Minsk.
- 2007 *Prorva I. Cmentarzysko z połowy III – początku II tysiąclecia przed Chr. na górnym Naddnieprzu*, *Archeologia Bimaris. Monografia* 2. Poznań
- 2010 Staryya Yurkovichy 1 – kulturna-khranalagichnyya aspekty “shnuravoga” kompleksu. *Materiyaly pa arkheologii Belarusi* 18: 217-242.
- 2011a Novyya vyniki dasledavannia pozniaga nealitu – pachatku epokhi bronzы u Zakhodnim Palessi. In: U. Stankiewicz, A. Wawrusiewicz (Eds) *Na rubieży kultur: Badania nad okresem neolitu i wczesną epoką brązu*, 207-217. Białystok.
- 2011b Pakhavanni siaredziny III – pachatku II tysiachagoddziau da n.e. na terytoryi Verkhniaga Padniaprouya: nekatoryya vyniki strukturnykh dasledavannia. In: H. Kowalewska-Marszałek, P. Włodarczak (Ed.) *Kurhany i obrządek pogrzebowy w IV-II tysiącleciu p. n. e.*, 293-308. Kraków, Warszawa.
- Kryvaltsevich M., Kaletshyts A.G.
- 2006 Z dasledavanyav „Tshintsa“ v Zachodnim Pelessi Belarusi, In: H. Taras (Ed.) *Zmierzch kompleksu trzciniacko-komarowskiego. Kształtowanie się nowej rzeczywistości kulturowej w środkowej i młodszej epoce brązu*, 41-81. Lublin.
- Krzak Z.
- 1961 *Materiały do znajomości kultury złockiej*. Wrocław.
- Kubyshev A.I., Nechytailo A.L.
- 1991 Tsenry metalloobrabatyvayuschego proizvodstva azowo–chernomorskoy zony (k postanovke problemy). In: Bratchenko S.N., O.G. Shaposhnikova (Eds) *Katakombnye kultury Severnogo Prichernomia*, 6-21. Kyiv
- Kushnareva K.K., Chubinishvili G.N.
- 1970 *Drevneyshie kultury Yuzhnogo Kavkaza (V-III tys. do n.e.)*. Leningrad.

Kushtan D.P.

2001 Pamiatky z keramikoyu malopolovetskoho typu na Cherkaschyni. In: *Et-nokulturni protsesy u Serednomy Podniprovyi za materialamy arkheolo-hichnykh doslidzhen. Materialy naukovoyi konferentsii, Fastiv, hruden* 2001, 14-16. Kyiv.

2013 Pivden Lisostepovoho Podniprovya za doby piznioi bronzы. *Arheolohichniy almanakh* 29. Donetsk.

Kushtan D.P., Lysenko S.D.

2005 Steatytovi kukhli doby piznioi bronzы is Serednoho Podniprovyia. In: *Ka-miana doba Ukrainy 7. Do 85-richhya D.Ya. Telehina*, 226-231. Kyiv.

Lahodovska O.F.

1948 Voytsekhivskiy mohylnyk bronzovoi doby na Volyni. *Arheolohiya* 2: 62-77.

Lahodovska O.F., Zakharuk Yu.M.

1956 Novi doslidzhennia Voytsekhivskoho mohylnyka. In: *Arkheolohichni pa-miatky Ukrainskoyi RSR, vol. 6*, 69-74. Kyiv.

Lakiza V.L.

2008 *Starozhytnastsi pozniaga nealitu i ranniaga periyiadu bronzavaga veku Belaruskaga Poniamonnia*. Minsk.

Latynin B.A.

1964 K voprosu o pamiatnikakh s tak nazyvaemoy mnogovalikovoy keramikoy. *Arkheologicheskyy sbornik Gosudarstvennogo Ermitazha* 6: 53-71.

Lewandowski S.

1978 Cmentarzysko z epoki brązu i wczesnej epoki żelaza w Paluchach, woj. Przemysł. *Sprawozdania Archeologiczne* 30: 129-150.

Libera J.

2001 *Krzemienne formy bifacjalne na terenach Polski i Zachodniej Ukrainy (od środkowego neolitu do wczesnej epoki żelaza)*. Lublin.

Libera J., Zakościelna A.

2011 Cyrkulacja krzemienia wołyńskiego w okresie neolitu w we wczesnej epoce brązu na ziemiach polskich. In: M. Ignaczak, A. Koško, M. Szmyt (Eds) *Między Bałtykiem a Morzem Czarnym. Szlaki międzymorza IV – I tys. przed Chr. Archeologia Bimaris. Dyskusje* 4: 83-115, Poznań.

Likhachov V.A.

1981 Ob odnom tipe sosudov katakombnogo vremeni. In: I.F. Kovaleva (Ed.) *Stepnoe Podneprovie v bronzovom i rannem zeleznom vekakh*,: 72-76. Dnepropetrovsk.

Lißner B.

- 2004 Zu den frühbronzezeitlichen Gruppen in Süddeutschland. In: *Beiträge Ur- und Frühgeschichtlichen Archäologie* 13: 1-20.

Litvinova L.V.

- 2001 Naseleniye Srednego Podneprovia v epokhu pozdney bronzy (po materialam mogilnika Malopolovetskoe-3). In: *Etnokulturni protsesy u Seredno-my Podniprovyi za materialamy arkheolohichnykh doslidzhen. Materialy naukovoyi konferentsii, Fastiv, hruden 2001, 10-12. Kyiv.*

Lotman Ju.M.

- 1992 O semiosfere. In: *Izbrannye statyi v 3 t., vol.1, 11-25. Tallinn.*

Lutteropp K.

- 2009 *Untersuchungen zu weiblichen und männlichen Bestattungen der Frühen Bronzezeit: Bestattungsgemeinschaften mit bipolar geschlechtsdifferenzierten Bestattungssitten und ihre Sozialstrukturen im Raum Niederösterreich (Inaugural-Dissertation zur Erlangung der Doktorwürde der Philosophischen Fakultät der Rheinischen Friedrich-Wilhelms-Universität). Bonn.*

Lysenko S.D.

- 1998 Rezultaty issledovania mogilnika Malopolovetskoe-3 na Kyivshchine v 1993-1997 godakh. In: A.Koško, J. Czebreszuk (Eds) „Trzciniac”: system kulturowy czy interkulturowy proces?, *Archeologia Bimaris. Dyskusje* 1, 95-117. Poznań.
- 1998a K voprosu o pamiatnikakh s keramikoy malopolovetskogo tipa. In: *Problemy izucheniya katakombnoy kulturo-istoricheskoy obschnosti (KKIO) i kulturo-istoricheskoy obschnosti mnogovalikovoy keramiki (KIOMK)*, 91-97. Zaporozhe.
- 1999 Kozarovytskyi mohylnyk doby piznoyi bronzy. *Vita Antiqua* 2: 73-79.
- 2006 Kubki maevskogo tipa iz Srednego Podneprovia. In: *Arkheologicheskoe izucheniye Tsentralnoy Rossii. Tezisy mezhdunarodnoy nauchnoy konferentsii, posviaschennoy 100-letiyu so dnia rozhdeniya V.P. Levkina*: 181-183. Lipetsk.
- 2007 Dinamika razvitiya tshinetskogo kulturnogo kruga na granitse pravoberezhnoy lesostepi i Polesia. In: M. Gierlach, L. Bakalarska (Eds) *Wspólnota dziedzictwa archeologicznego ziem Ukrainy i Polski. Materiały z konferencji. Łańcut* (26- 28 X 2005 r.), 341-389. Warszawa.
- 2011 K voprosu o kulturno-khronologicheskoy i fuktionalnoy prinadlezhnosti kostianykh „priazhek” v Srednem Podneprove. *Kratkie soobscheniya Instituta arkheologii* 225: 123-143.

- 2012 Pamiatniki epokhi bronzy – rannego zheleznoho veka u s. Voloshkovo (po materialam issledovaniy 2009-2011 gg.). In: *Problemy doslidzhennia pamiatok arkheolohii Skhidnoi Ukrainy. Materialy III Luhanskoyi mizhnarodnoi historyko-arkheolohichnoi konferentsii, prysviachenoi pamiaty S.N. Bratchenka*, 278-283. Kyiv.
- 2013 K voprosu o vozmozhnykh kontaktakh kievo-cherkasskoy grupy tshinet-skogo kulturnogo kruga s Donetskimi GMTs. In: Yu.M. Brovender (Ed.) *Problemy hirnychoi arkheolohii (Materialy IX mizhnarodnoho Kartamy-skoho poliovoho arkheolohichnoho seminaru)*, 86-96. Alchevsk.

Lysenko S.D., Gaskevich D.L.

- 1999 Pamiatniki s keramikoy malopolovetskogo tipa basseyna r. *Trubezh*. In: *Arkheolohichni vidkryttia v Ukraini 1998-1999 rr.*, 113-115. Kyiv.

Lysenko S.D., Kushtan D.P.

- 1997 Pro vydilennia pamiatok z keramikoyu malopolovetskoho typu. In: *V Mizhnarodna arkheolohichna konferentsia studentiv ta molodykh vchenykh (kviten 1997 r.)*, 109-112. Kyiv.
- 2005 Steatitovye kruzhki epokhi pozdney bronzy iz Srednego Podneprov'ia. In: *Arkheomineralogiya i rannia istoria mineralogii (Materilay mezhdunarodnogo seminaria)*, 51-54. Syktyvkar.

Lysenko S.D., Kushtan D.P., Pankovskiy V.B., Fedko V.F.

- 2011 Pamiatniki malopolovetskogo tipa v basseyne r. *Supoy*. In: *Drevnosti. Kharkovskiy istoriko-arkheologicheskiy yezhegodnik*, 228-241. Kharkov.

Lysenko S.D., Lysenko S.S.

- 2002 Issledovaniya na mogilnike Malopolovetskoe-3 v 2001 g. In: *Arkheolohichni vidkryttia v Ukraini 2000-2001 pp.*, 168-177. Kyiv.
- 2003 Issledovaniya na mogilnike Malopolovetskoe-3 v 2002 g. In: *Arkheolohichni vidkryttia v Ukraini 2001-2002 pp.*, 168-179. Kyiv.
- 2004 Issledovaniya na mogilnike Malopolovetskoe-3 v 2003 g. In: *Arkheolohichni vidkryttia v Ukraini 2002-2003 pp.*, 198-210. Kyiv.
- 2009 Ground Communications of the Eastern Area of the Trzciniec Culture Circle. In: A. Koško, V. Klochko (Eds) *Routes between the Seas: Baltic – Boh – Bug – Pont from the 3rd to the Middle of the 1st Millennium BC. Baltic-Pontic Studies* 14: 338-367. Poznań.
- 2012 Voytsekhovskiy mogilnik v svete novykh issledovaniy. In: *Kultury stepnoy Evrazii i ikh vzaimodeystvie s drevnimi tsivilizatsiami. Materialy mezhdunarodnoy nauchnoy konferentsii, posviaschennoy 110-letiyu so dnia rozhdeniya vydayushchegosia rossiyskogo arkheologa Mikhaila Petrovicha Griaznova*, vol.2, 90-95. Sankt Petersburg.

2013 Novye issledovaniya Voytsekhivskogo mogilnika. In: *Tsivilizatsionnye tsenry i pervobytnaya periferiya v epokhu rannego metalla: modeli vzaimodeystviya. Tezisy dokladov kruglogo stola, posviaschennogo pamiaty N.Ya. Merperta*, 24-25. Moskva.

Lysenko S.D., Pankovskiy V.B., Kushtan D.P., Fedko V.F.

2011 Pamiatniki rubezha sredney-pozdney bronzy u s. Bespalche na Supoe. *Donetskiy arkhelohichnyi zbirnyk* 15: 133-147.

Lysenko S.D., Skiba A.V.

1998 Pamiatniki s keramikoy malopolovetskogo tipa na Supoe In: *Arkheolohichni vidkryttia v Ukraini 1997-1998* pp., 106-109. Kyiv.

Lysenko S.S.

2006 *Prykrasy naseleння Ukrainy doby piznioi bronzy. Avtoreferat na zdobuttia stupenia kandydata istorychnykh nauk*. Kyiv.

Lytvynenko R.O. = Litvinenko R.A.

2001 Kultura Babyno (mnogovalikovoy keramiki) i ee mesto v sisteme bronzovogo veka yuga Vostochnoy Evropy. In: *Bronzovyi vek Vostochnoy Evropy: kharakteristika kultur, khronologia i periodyzatsia*, 161-169. Samara.

2006 Opyt vyivlenia prostranstvenno-semanticheskikh struktur v pogrebalnom obriade kultury Babyno. *Strukturno-semioticheskie issledovania v arkhelologii* 3: 215-236.

2006a Dnepro-donskaya babinskaya kultura (istochniki, areal, pogrebalnyi obriad). *Materialy ta doslidzhennia z arkhelohii Skhidnoyi Ukrainy* 5: 157-187.

2007 Obstavyny i chynnyky babynskoi kulturogenezy. *Visnyk Donetskoho universytetu. (Seriya B: Humanitarni nauky)* 1-2: 109-116.

2008 Pamiatky typu Babyne III: vid kultury do kulturnoho kola. *Novi storinky istoriyi Donbasu* 15/16: 342-354.

2008a Do otsinky peryferiynykh grup Babyne polisko-lisostepovoi Naddnrianschyny. *Visnyk Donetskoho universytetu (Seriya B: Humanitarni nauky)* 2: 180-190.

2009 Geneza, rozvytok ta istorychna dolia kulturnoho kola Babyne. *Materialy ta doslidzhennia z arkhelohii Skhidnoyi Ukrainy* 9: 44-90.

2009a *Kulturne kolo Babyne (za materialamy pokhvalnykh pamiatok). Avtoreferat na zdobuttia stupenia doktora istorychnykh nauk*. Kyiv.

2011 Babynska kultura na perekhresti Kavkazskoho i Karpatsko-Dunayskoho impulsiv kulturogenezy. In: *Materialy naukovoi konferentsii profesorsko-vykladatskoho skladu, naukovykh spivrobitnykiv i aspirantiv DNU za pidsumkamy naukovo-doslidnoyi roboty za period 2009-2010 rr.*, 249-250. Donetsk.

- 2011a Kulturne kolo Babyno: dosvid kulturohenetychnykh doslidzhen v arkheolohii. *Istorychni ta politolohichni doslidzhennia* 1-2 (47-48): 169-178.
- 2011b Kulturnyi krug Babyno: nazvaniye, taksonomiya, struktura. *Kratkie soobshcheniya Instituta Arkheologii* 225: 108-122.
- 2011c Obriad vtorynnoho pokhovannia v kulturach babynskoho kola. *Donetskyi arkheolohichniy zbirnyk* 15: 7-35.
- 2012 Kavkaz i Nadchornomoria: linii synkhronizatsii dlia finalu serednioi bronzy. *Hileya* 61 (6): 104-108.

Łęczycki S.

- 2004 Kietrz, Bytyń, Szczecin-Śmierdnica. Einige Anmerkungen zur Kulturzugehörigkeit des Hortfundes von Bytyń. *Sprawozdania Archeologiczne* 56: 33-59.

Łysenko S.D. Szmyt M.

- 2011 Środkowe Nadniedrze jako graniczny areał osadnictwa ludności kultury amfor kulistych. In: Ignaczak M., Koško A., Szmyt M. (Eds) *Między Baltykiem a Morzem Czarnym. Szlaki międzymorza IV – I tys. przed Chr. Archeologia Bimaris. Dyskusje* 4: 239-246. Poznań.

Machnik J.

- 1958 Z badań nad wczesną epoką brązu na Ukrainie. *Sprawozdania Oddziału PAN w Krakowie* 3: 92-96.
- 1960 Zabytki z kurhanów kultury ceramiki sznurowej w Wiktorowie (USSR). *Materiały archeologiczne* 2: 69-72.
- 1961 Problem osad kultury ceramiki sznurowej w dorzeczu górnego Sanu i Dniestru. *Acta Archaeologica Carpathica* 3: 209-218.
- 1972 Die Mierzanowice-Košfany-Kultur und das Karpatenbecken. *Slovenská archeológia* 20: 177-188.
- 1967 Stosunki kulturowe na przełomie neolitu i epoki brązu w Małopolsce (na tle przemian w Europie środkowej). *Materialy do prahistorii ziem polskich III. Warszawa*.
- 1977 *Frühbronzezeit Polens (Übersicht über die Kulturen und Kulturguppen)*. Wrocław-Warszawa-Kraków-Gdańsk.
- 1978 Wczesna epoka brązu. In: J. Machnik, B. Gediga, J. Miśkiewicz, W. Hensel (Eds) *Prahistoria ziem Polskich, vol. 3*, 1-212. Wrocław.
- 1979 Ze studiów nad kulturą ceramiki sznurowej w dorzeczu górnego Dniestru. *Acta Archaeologica Carpathica* 19: 50-71.
- 1982 Uwagi o wyrobach metalowych z początków epoki brązu w południowo-wschodniej Polsce. *Pamiętnik Muzeum Miedzi* 1: 79-100.
- 1987 *Kultury z przełomu eneolitu i epoki brązu w strefie karpackiej*. Wrocław.
- 1991 *The Earliest Bronze Age in the Carpathian Basin*. Bradford.

- 1999 *Radiocarbon chronology of the Corded Ware culture on Grzęda Sokolska. A middle Dnieper traits perspectives.* In: A. Koško (Ed.) *The Foundations of Radiocarbon Chronology of Cultures between the Vistula and Dnieper: 3150-1850 BC.* *Baltic-Pontic Studies* 7: 221-250.
- 2009 Short and long-distance pastoral journeys along ancient upland routes in Europe in the 3rd Millenium BC. In: A. Koško, V. Klochko (Ed.) *Routes between the Seas: Baltic-Bug-Boh-Pont from the 3rd to the Middle of the 1st Millennium BC.* *Baltic-Pontic Studies* 14: 214-222.
- Machnik J., Bagińska J., Koman W.
 2009 *Neolityczne kurhany na Grzędzie Sokalskiej w świetle badań archeologicznych w latach 1988 – 2006.* Kraków.
- Machnik J., Gediga B., Miśkiewicz J., Hensel W.
 1978 *Prahistoria ziem polskich vol. 3.* Wrocław-Warszawa-Kraków-Gdańsk.
- Makarowicz P.
 1999 The Problem of Reception of Otomani Culture Patterns on the Polish Lowlands. In: J. Gancarski (Ed.) *Kultura Otomani-Füzesabony – rozwój, chronologia, gospodarka,* 231-247. Krosno.
 2003 The Construction of Social Structure: Bell Beakers and Trzciniec Complex in North-Eastern Part of Central Europe. *Przegląd Archeologiczny* 51: 123-158.
 2008 Elitarne pochówki z kurhanu komarowskiego w Ivanju na Wołyniu – zarys możliwości interpretacyjnych. In: J. Bednarczyk, J. Czebreszuk, P. Makarowicz, M. Szmyt (Eds) *Na pograniczu światów. Studia z pradziejów międzymorza bałtycko-pontyjskiego ofiarowane Profesorowi Aleksandrowi Koško w 60. rocznicę urodzin,* 333-352. Poznań.
 2009 Baltic-Pontic Inter Regional Routes at the Start of the Bronze Age. In: A. Koško, V.I. Klochko (Eds) *Routes between the Seas: Baltic-Bug-Boh-Pont from the 3rd to the Middle of the 1st Millennium BC,* *Baltic-Pontic Studies* 14: 301-336.
 2010 *Trzciniecki krąg kulturowy – wspólnota pogranicza Wschodu i Zachodu Europy.* Poznań.
 2012 Zwischen baltischem Bernstein und transylvanischem Gold. Der Trzciniec-Kulturkreis – nordöstlicher Partner der Otomani/Füzesabony-Kultur, In: M. Jaeger, J. Czebreszuk, K.P. Fischl (Eds) *Enclosed Space – Open Society. Contact and Exchange in the Context of Bronze Age Fortified Settlements in Central Europe. StudienzurArchäologie in Ostmitteleuropa/Studia nad Pradziejami Europy Środkowej* 10. Poznań–Bonn 2012, 179-216.

Makarowicz P., Gorbacz-Klempka A.

- 2014 Osada metalurgów w Szczepidle nad środkową Wartą. Z badań nad wytwórczością z brązu w II tys. BC. *Fontes Praehistorici Posnanienses* 50 (in print).

Makarowicz P., Lysenko S., Kočkin I.

- 2013 Wyniki badań cmentarzyska kultury komarowskiej w Bukivnej nad górnym Dniestrem w 2010 roku. *Materiały Archeologiczne* 29: 101-120.

Manzura I.V., Klochko E.O, Savva E.N.

- 1992 *Kamenskie kurgany*. Kishiniev.

Markus I., Okhrimenko H.

- 2010 *Ozbroyennia ta znariaddia pratsi naselelnia Zakhidnoi Volyni IV – II tys. do R.Ch.* Lutsk.

Marková K.

- 1998 Kultúrny vývin v závere staršej doby bronzovej na juhu stredného Slovenska a možnosti kultúrnych vzťahov s južným Poľskom. In: A. Koško, J. Czebreszuk (Eds) „*Trzciniac*” – system kulturowy czy interkulturowy proces?, 253-258. Poznań.
- 2003 Austauschentwicklung im Karpatenbecken im Lichte der Bernstainfunde (vorläufige Anmerkungen). In: C. Kacsó (Ed.) *Bronzezeitliche Kulturercheinungen im Karpatischen raum. Ehrensiumposium für Alexandru Vulpe zum 70. Geburtstag. Baia Mare 10.-13. Oktober 2001.*, 339-352. Baia Mare.

Martirosian A.A.

- 1964 *Armeniya v epokhu bronzy i rannego zheleza*. Erevan.

Marzatico F., Tecchiati U.

- 2001 The Bronze Age in Trentino and Alto Adige/Südtirol. *Preistoria Alpina* 34: 27-60.

Matthias W.

- 1969 Die Schnurkeramik im westlichen Mitteldeutschland. In: H. Behrens, F. Schlette (Eds) *Die neolithischen Becherkulturen im Gebiet der DDR und ihre europäischen Beziehungen, Veröffentlichungen des Landesmuseums für Vorgeschichte in Halle* 24, 9-29. Berlin.
- 1982 Kataloge zur mitteldeutschen Schnurkeramik. Teil V. Mittleres Saalegebiet. In: *Veröffentlichungen des Landesmuseums für Vorgeschichte in Halle* 35. Berlin.

Matuschik I.

- 1996 Brillen- und Hakenspiralen der frühen Metallzeit Europas. *Germania* 74 (1): 1-43.

Melis E.

- 2013 Data on Early Bronze Age apparel on the basis of a cremation grave excavated at Ménfőcsanak-Széles-Földek. *Hungarian archaeology, autumn 2013*: http://www.hungarianarchaeology.hu/wp-content/uploads/2013/10/eng_Melis_130.pdf

Melnik V.I.

- 2012 Problemy urovney obshchnosti katakombnogo kulturnogo kruga. *Kratkie soobscheniya Instituta arkheologii* 225: 10-15.

Melnikovskaya O.N.

- 1967 *Plemena Yuzhnoy Belorussii v rannem zheleznom veke*. Moskva.

Melnyk O.O., Balabanov S.V.

- 2007 *Istorichna entsyklopediya Kryvorizhzhia, vol. I*. Kryvyi Rih.

Melnyk O., Steblina I.

- 2012 *Kurhany Kryvorizhzhia*. Kryvyi Rih.

Merpert N.Ya.

- 1974 *Drevneishie skotovody Volgo-Uralskogo mezhdurechia*. Moskva.
1982 Eneolit yuga SSSR i evraziiskie stepi. In: V.M. Masson, N.Ya Merpert (Eds) *Eneolit SSSR. Arkheologia SSSR*: 321-331. Moskva.

Motzoi-Chicideanu I.

- 1995 Fremdgüter im Monteoru-Kulturraum. In: B. Hänsel (Ed.) *Handel, Tausch und Verkehr im bronze- und früheisenzeitlichen Südosteuropa; Prähistorische Archäologie in Südosteuropa* vol. 11, 219-242. München – Berlin.

Movsha T.G.

- 1957 Mednye ukrasheniya iz Kyiva. *Kratkie Soobschenia Instituta Istorii Materialnoi Kultury* 70: 96-99.

Munchayev R.M.

- 1975 *Kavkaz na zare bronzovogo veka*. Moskva.

Müller J. , Czebreszuk J., Kneisel J. (Eds)

- 2010 *Bruszczewo II. Ausgrabungen Und Forschungen in einer prähistorischen Siedlungskammer Großpolens. Studien zur Archäologie in Ostmitteleuropa 6.1-6.2*. Bonn.

Müller-Karpe H.

1974 *Handbuch der Vorgeschichte*, vol. 3. München.

Munteanu R.

2010 Începutul bronzului mijlociu în depresiunile marginale ale Carpaților Orientali. *Bibliotheca Memoriae Antiquitatis* 24. Piatra-Neamț.

Muzolf P.

2012 Osadnictwo kultury trzcienieckiej. In: B. Muzolf (Ed.) *Lutomiersk–Koziówki, stanowisko 3a-c, pow. pabianicki, woj. łódzkie. Wielokulturowy zespół osadniczy od schyłkowego paleolitu po okres nowożytny*, 58-113. Biblioteka Muzeum Archeologicznego i Etnograficznego w Łodzi, Nr 39. Łódź.

Mymokhod R.A.

2010 Radiouglerodnaya khronologiya bloka postkatakombnykh kulturnykh obrazovaniy. In: *Materialy ta doslidzhennia z arkheolohiyi Skhidnoi Ukrainy* 10: 32-55. Luhansk.

2011 Radiouglerodnaya khronologia bloka postkatakombnykh kulturnykh obrazovaniy. In: *Kratkie soobschenia Instituta Arkheologii* 225: 28-53.

2013 Postkatakombnyi period v Nizhnem Povolzhie i Volgo-Donskom mezhdurehie: sodержanie i definitsii. *Arkheologiya vostochnoyevropeiskoi stepi* 10: 167-179.

Nagy M.

2013 Der Südlichste Fundort der Gáta Wieselburg Kultur in Zseny – Kavicsbánya/Schottergrube, Komitat Vas, Westungarn. *Savaria* 36: 75-143.

Nechytailo A.L.

1991 *Sviazi naseleniya Steпноy Ukrainy i Severnogo Kavkaza v epokhu bronzy*. Kyiv.

Neugebauer C., Neugebauer J.-W.

1997 Das frühbronzezeitliche Gräberfeld Franzhausen I. In: *Fundberichte aus Österreich. Materialhefte* 5, 1-1400.

Niculică B.

2004-2005 Considérations sur la période moyenne de l'âge du bronze dans le plateau de Suceava. Le complexe culturel Komarów – Costișa – Biały Potik. *Studia Antiqua et Archaeologica* 10-11: 61-68.

Niedźwiedz J., Taras H.

2006 Schyłek kultury trzcienieckiej i początki kultury łużyckiej we wschodniej Lubelszczyźnie. In: H. Taras (Ed.) *Zmierzch kompleksu trzcieniecko-ko-*

marowskiego. Kształtowanie się nowej rzeczywistości kulturowej w środkowej i młodszej epoce brązu, 91-109. Lublin.

Nikitenko I.S.

2011 Do pytania pro vydilennia kamnedobuvnoi hirnychoi provintsii doby bronzы u zoni rozpovsiudzhennia tsentralnykh ta skhidnykh blokiv Ukrainskoho schyta. In: *Problemy hirnychoi arkheolohii (Materialy VIII mizhnarodnoho Kartamyskoho polovoho seminaru)*, 80-88. Alchevsk.

Nikitenko N.N.

1977 O datirovke balkinskogo rala. In: V.D. Baran (Ed.) *Novye issledovaniya arkheologicheskikh pamiatnikov na Ukraine*, 44-47. Kyiv.

Nikitin V.I.

1989 Matveevka 1 – poselenie katakombnoy kultury na Yuzhnom Buge. *Sovetskaya Arkheologiya* 2: 136-150.

Nikolova A.V.

1992 *Hronologicheskaya klassifikatsiya pamyatnikov yamnoy kultury stepnoy zony Ukrainy: Avtoreferat disertatsii na zdobuttia naukovoogo stupenju kandidata istorichnih nauk*. Kyiv.

2006 K voprosu o kulturnoy atributsii pogrebeniy ranney bronzы s ostatkami transportnykh sredstv v Severnom Prichernomorje. *Arheologicheskie pamiatniki Vostochny Evropy* 12: 79-86.

Nikolova A.V., Mamchych T.I.

1997 Do metodyky klasyfikatsiyi posudu yamnoyi kultury. *Arkheolohiya* 3: 101-115.

Nosek S.

1947 Zagadnienie Prasłowiańszczyzny w świetle prehistorii. *Światowit* 19: 1-177.

Okhrimenko G.V.

2012 Zakhidna Volyn-Pripontida: etnokulturni kontakty. In: *Pratsi Naukovodoslidnoho Institutu pamiatkoohoronnikh doslidzhen vol. 7*, 258-262. Kyiv.

Ondrůček J., Šebela L.

1985 Pohřebiště nitranské skupiny v Holešově (catalog nálezů). In: *Studie Muzea Kroměřížska*: 2-130. Kroměříž.

Ostojuhevo

1994 *Ostojuhevo nekropola bronzanog doba*. Belgrad.

Otroschenko V.V.

- 2001 *Problemy periodyzatsii kultur serednioi ta piznioi bronzy Skhidnoi Evropy (kulturo-stratyhrafichni zistavlennia)*. Kyiv.
- 2005 Epokha eneolitu – bronzy. In: L.L. Zalizniak (Ed.) *Arkheolohiya Ukrainy*, 105-202. Kyiv.
- 2011 Problemy vyvchennia pamiatok Babynskoyi spilnoty Serednioyi Naddnianschyny. *Pereyaslivka. Naukovi zapyski* 5 (7): 159-162.

Otroschenko V.V., Pustovalov S.Z.

- 1991 Obriad modelirowania litsa po cherepu u plemen katakombnoy obschnosti. In: *Dukhovnaya kultura drevnikh obshchestv na territorii Ukrainy*, 59-84. Kyiv.

Palahuta I.V.

- 1996 Kulturna nalezhnist pamiatok serednioi ta piznioi bronzy Cherkaskoho Livoberezhzhia. *Arkheolohiya* 1: 61-69.

Pankovskiy V.B.

- 2005 Do problemy kistianoi industrii tshynetskoho kulturnoho kola (Malopovolovetske-3). In: *Problemy arkheolohii Serednioho Podniprov'ia: Do 15-richchia zasnovannia Fastivskoho derzhavnogo kraeznavchoho muzeyu*, 120-142. Kyiv – Fastiv.
- 2010 Novye dannye o kostianoy industrii tshinetskogo kulturnogo kruga. In: *Arkheolohichni pamiatky Fastivschyny. Materialy ta doslidzhennia: Do 75-richchya N.M. Kravchenko. Pres-muzey* 26-27: 42-50. Fastiv.

Parker Pearson M.

- 1999 *The Archaeology of Dead and Burial*. Sutton.

Perini R.

- 1971 I depositi preistorici di Romagnano-Loc (Trento). *Preistoria Alpina* 7: 7-106.

Petrenko V.G.

- 2010 Kurgan epokhi paleometalla na poberezhie Khadzhibeiskogo limana. *Materialy po arkheologii Severnogo Prichernomoria* 11: 303-368.

Petrun V.F.

- 1967 Petrografiya i nekotorye problemy materiala kamennykh liteynykh form epokhi bronzy Severnogo Prichernomoria. In: *Pamiatniki epokhi bronzy yuga Evropeyskoy chasti SSSR*, 185-194. Kyiv.

Pobol L.D.

- 1964 *Otchet ob arkheologicheskikh issledovaniakh na territorii BSSR v 1964 godu* (held in the archives of II NANB, nr. 238).

- 1966 Pogrebenie epokhi bronzы bliz d. Borisovschina Mogiliovskoy obl. *Sovetskaya Arkheologiya* 2: 294-297.
- Popova T.B.
1955 Plemena katakombnoy kultury. *Trudy Gosudarstvennogo istoricheskogo muzeya* 24. Moskva.
- Popovich S.
2008 Issledovaniya kurgana u s. Orxej. *Revista Archaeologica. Serie nouă. IV* (1): 93-99.
- Priakhin A.D.
1996 *Mosolovskoe poselenie metallurgov-liteyschikov epokhi pozdney bronzы: Kniga vtoraya*. Voronezh.
- Priakhin A.D., Savrasov A.S.
1989 Gliniane liteynye formy s Mosolovskogo poseleniya metallurgov-liteyschikov. In: A.D. Priakhin (Ed.) *Poseleniya srubnoy obschnosti*, 39-80. Voronezh.
- Przybyła M.S.
2009 *Intercultural contacts in the Western Carpathian area at the turn of the 2nd and 1st millenia BC*. Warszawa.
- Przybyła M.S., Skoneczna M.
2012 The fortified settlement from the Early and Middle Bronze Age at Maszkowice, Nowy Sącz District (Western Carpathians). In: *Preliminary results of studies conducted in the years 2009–2012. Recherches Archéologiques* 3: 5-66.
- Pustovalov S.Z.
1994 Economy and Social organization of Northern Pontic Steppe-Forest-Steppe Pastoral Populations: 2750 – 2000 BC (Catacomb Culture). In: A.Koško (Ed.) *Nomadism and Pastoralism in the Circle of Baltic-Pontic Early Agrarian Cultures: 5000-1650 BC. Baltic-Pontic Studies* 2: 86-134.
1995 Ob obschestvennom polozhenii masterov-remeslennikov v epokhu sredney bronzы. In: *Khoziaystvo drevnego naseleniya*, 211-221. Kyiv.
1997 Rekonstruktsiya chyslenosti katakombnogo naselennia za kurhannymy pamiatkami Pivnichnoho Prychornomoria. *Arkheolohiya* 3:40-49.
1998 K voprosu o yamno-katakombnoy epokhe. In: *Problemy arkheologii Yugo-Vostochnoy Evropy*, 63-64. Rostov-na-Donu.
1999 Ingul'skaya katakombnaya kultura i kriterii vydeleniya arkheologicheskikh kultur. In: *Etnichna Istoriya ta kultura naselenniya Stepu ta Lisostepu Evrazii (vid kamianoho viku po ranne serednovichchia: Materialy mizhnarodnoi arkheolohichnoi konferentsii, 73-75*. Dnipropetrovsk.

2005 *Sotsialnyi lad katakombnoho suspilstva Pivnichnoho Prychornomoria*. Kyiv.

Rachwaniec A.

1985 Materiały archeologiczne ze starszego okresu epoki brązu oraz kultury lużyckiej z rejonu Kopca Wandy w Nowej Hucie-Mogile. *Materiały Archeologiczne Nowej Huty* 9: 89-191.

Rasovskiy D.A.

1993 Pechenegi, torki i berendei na Rusi i v Ugrii. In: *Sbornik statei po arkheologii i vizantinovedeniyu* 6: 82-142. Praga.

Rassamakin Y.Y.

1994 The Main Directions of the Development of Early Pastoral Societies of the Northern Pontic Zone: 4500 – 2450 BC (Pre-Yamnaya Cultures and Yamnaya Culture). In: A.Koško (Ed.) *Nomadism and Pastoralism in the Circle of Baltic-Pontic Early Agrarian Cultures: 5000-1650 BC*. *Baltic-Pontic Studies* 2: 29-70.

1999 The Eneolithic of the Black Sea Steppe: Dynamics of Cultural and Economic Development 4500-2300 BC. In: M.Levine, Y. Rassamakin, N. Kislenko, N. Tatarintseva (Eds) *Late Prehistoric Exploitation of the Eurasian Steppe*, 59-182. Cambridge.

Razumov S.M.

2010 *Kremiani vyroby naselennia Nadchornomoria doby rannioi ta serednioi bronzy (za materialamy pokhovan): Avtoreferat disertatsiyi na zdobuttia naukovooho stupenia kandydata Istorichnykh nauk*. Kyiv.

2011 *Flint Artefacts of Northern Pontic Populations of the Early and Middle Bronze Age: 3200-1600 BC*, *Baltic-Pontic Studies* 16

Razumov S.M., Koško A., Karnaukh Ye.H.

2011 Roboty spilnoi Ukraino-Polskoi Yampilskoi arkheolohichnoi ekspedytsii. In: *Arkheolohichni doslidzhennia v Ukraini v 2010 r.*, 286. Kyiv-Poltava.

Razumov S.N., Lysenko S.D., Koško A.

2012 Babinskoe pogrebeniye s chashey u s. Porogi na Dnestre. In: O.I. Hurzhiy et al. (Eds) *Arkasivski chytannia: materialy II Mizhnarodnoi naukovy-praktychnoi konferentsii*, 84-87. Mykolaiv.

Rogozińska R.

1959 Cmentarzysko kultury komarowskiej w Bukównie. *Materiały Archeologiczne* 1: 97-114.

Romaniszyn J.

- 2013 *Obrzędowość pogrzebowa społeczności kultury komarowskiej w dorzeczu górnego Dniestru i Seretu (manuscript of PhD dissertation, Institute of Prehistory AMU in Poznań)*. Poznań.

Róska M.

- 1957 A fajszi típusú rézbalták. *Folia Archaeologica* 8: 43-46.

Ruckdeschel W.

- 1978 Die Frühbronzezeitlichen Gräber Südbayerns. *Ein Beitrag zur Kenntnis der Straubinger Kultur*. In: *Antiquitas* 11. Bonn.

Rychkov N.A.

- 1990 *Etnicheskaya kharakteristika naseleniya yamnoj kultury Severnogo Prichernomor'ya*. Avtoreferat dissertacii na soiskaniye uchenoj stepeni kandidata istoricheskikh nauk. Kiev.

Ryndina N.V., Konkova L.V.

- 1982 O proiskhozhdenii bolshikh usatovskikh kinzhalov. *Sovetskaya Arkheologiya* 2: 30-42.

Sandars N.K.

- 1961 The first Aegean swords and their ancestry. *American Journal of Archaeology* 65-1: 17-30.

Sangmeister E.

- 1974 Zwei Neufunde der Glockenbecherkultur in Baden-Württemberg. *Fundberichte aus Baden-Württemberg* 1: 103-137.

Sanzharov S.N.

- 2001 *Katakombnye kultury Severo-Vostochnogo Priazovia*. Lugansk.
 2008 *Strelochnye nabory instrumentov i syria iz katakombnykh pogrebeniy Ukrainy*. Lugansk.
 2010 *Vostochnaya Ukraina na rubezhe epokh sredney-pozdney bronzy*. Lugansk.

Savva E.N.

- 1992 *Kultura mnogovalikovoy keramiki Pruto-Dnestrovskogo mezhdurechia*. Kishinev.
 1998 Die Rolle der "östlichen" und "westlichen" Elemente bei der Genese des Kulturkomplexes Noua-Sabatinovka. W: B. Hänsel, J. Machnik (Eds) *Das Karpatenbecken und die Osteuropäische Steppe. Nomadenbewegungen und Kulturaustausch in den vorchristlichen Metallzeiten (4000-500 v. Chr.)*, München-Rahden/Westf., 267-312.

Schaeffer F.A.

1948 *Stratigraphie comparee et chronologie de l'Asie Occidentale*. London.

Schmagliy N.M., Cherniakov I.T.

1985 Kurgany na levoberezhze Nizhnego Dnestra. *Novye materialy po arxeologii Severo-Zapadnogo Prichernomor'ya*, 95-132. Kiev.

Šebela L.

1999 *The Corded Ware Culture in Moravia and in the Adjacent Part of Silesia (Catalogue)*. Brno.

Segeda S.P.

2000 Naselenie katakombnoy kultury Severo-Zapadnogo Prichernomor'ya po dannym arkheologii. In: *Chobruchskiy arkheologicheskiy kompleks i drevnie kultury Podnestrovia*, 103-107. Tiraspol.

Shaposhnikova O.G.

1978 Ingul'skaya kultura. In: *Arkheologicheskie issledovaniya na Ukraine v 1976 – 1977 gg. Tezisy*, 6-8. Uzhgorod.

Shaposhnikova O.G., Fomenko V.N., Dovzhenko N.D.

1986 *Yamnaya kulturno-istoricheskaya oblast (yuzhnobugskiy variant)*. Kyiv.

Sharafutdinova I.N.

1989 Khoziaystvo plemen sabatinovskoy kultury. In: *Pervobytnaya arkheologiya. Materialy i issledovaniya (sbornik nauchnykh trudov)*, 168-179. Kyiv.

Shepel K.A.

1985 *Naseleniye basseyna Severskogo Donsa v epokhu eneolita – bronzy po antropologicheskim dannym. Avtoreferat dissertatsii na soiskaniye uchonoy stepeni kandidata istoricheskikh nauk*. Kyiv.

Shishlina N.I.

2007 Severo-Zapadnyi Prikaspiy v epokhu bronzy (V–III tys. do n. e.). *Trudy Gosudarstvennogo Istoricheskogo Muzeya* 165. Moskva.

2013 Steppe und Kaukasus. Ein Dialog der Kulturen. In: *Bronzezeit. Europa ohne Grenzen 4. – 1. Jahrtausend v. Cr. Ausstellungskatalog*, 128-139. Sankt Petersburg.

Shmagliy N.M., Cherniakov I.T.

1970 Issledovaniya kurganov v stepnoy chasti mezhdurechia Dunaya i Dnestra. *Materialy po arkheologii Severnogo Prichernomor'ya* 6: 5-90.

Shramko B.A., Mashkarov Yu.G.

- 1993 Issledovanie bimetallicheskogo nozha iz pogrebeniya katakombnoy kul'tury. *Sovetskaya arkheologiya* 2: 163-170. Moskva.

Simion G.

1991. O noua cultura de la inseputul epozii bronzului pe teritoriul Istro-Pontic, Peuce X (I): 33–34.

Sinika V.S., Razumov S.N., Telnov N.P.

- 2013 *Kurgany u sela Butory. Arheologicheskie pamyatniki Pridnestrovyia: 1.* Tiraspol.

Siniuk A.T., Matveev Yu.P.

- 2007 *Srednedonskaya katakombnaya kultura epokhi bronzы (po dannym kurgannykh kompleksov).* Voronezh.

Smirnova G.I.

- 1976 Magala I i nekotorye voprosy khronologii pozdnekomarovskoy kul'tury v Prikarbate. In: S.S.Berezanskaya et al. (Eds) *Eneolit i bronzovyi vek Ukrainy. Issledovannya i materialy*, 119-135, Kyiv.

Spindler K.

- 1993 Die Mumie. In: M. Egg, R. Goedecker-Ciolek, W. Groenman-Van Waateringe, K. Spindler (Eds) *Die Gletschermumie vom der Steizeit aus dem Öztaler Alpen*, 27-35. Mainz.

Stefanović S.

- 2006 Animal canines as possible symbol of rank in early Bronze Age Mokrin. *Strukturno-semioticheskie issledovaniya v arkheologii* 3: 201-214.

Stloukal M.

- 1985 Antropologický rozbor koster z pohřebišť v Holešově. *Studie Muzea Kroměřížska* '85: 131-169.

Subbotin L.V.

- 1982 Dva kurgana epokhi bronzы v Bugo-Dnestrovskom mezhdurechie. In: A.V. Gudkova (Ed.) *Arkheologicheskie pamiatniki Severo-Zapadnogo Prichernomoria*: 100-110. Kyiv.

- 1985 Semenovskiy mogilnik epokhi eneolita-bronzы. In: V.N. Stanko (Ed.) *Novye materialy po arkheologii Severo-Zapadnogo Prichernomoria*: 45-95. Kyiv.

- 2000 Severo-Zapadnoe Prichernomorie v epokhu ranney i sredney bronzы. *Stratum plus* 2: 350-387.

- 2003 *Orudiya truda, oruzhie i ukrasheniya yamnoj kul'tury Severo-Zapadnogo Prichernomorya.* Odessa.

- Subbotin L.V., Dobroliubskiy A.O., Toshev G.N.
 1995 Pamiatniki epokhi bronzy kurgannogo mogilnika Gradeshka. *Drevnosti Stepnogo Prichernomoria i Kryma* 5: 109-126.
- Subbotin L.V., Ostroverkhov A.S., Dzigovskiy A.N.
 1995 *Arkheologicheskie drevnosti Budzhaka. Kurgany u s. Trapovka i Novoselitsa*. Odessa.
- Subbotin L.V., Dzigovskij A.N., Majorov V.N.
 1984 *Ohrannye raskopki u s. Ogorodnoe*. Severnoe Prichernomorje. Kiev: 104-112.
- Sulimirski T.
 1968 *Corded Ware and Globular Amphorae North-East of the Carpathians*. London.
- Sveshnikov I.K. = Swieszchnikow I.
 1967 Kultura komarowska. *Archeologia Polski* 12(1): 39-107.
 1968 Bogatye pogrebeniya komarovskoy kultury u s. Ivania Rovenskoy oblasti. *Sovetskaya arkheolohiya* 2: 159-168.
 1974 *Istoriya naselennia Peredkarpattia, Podillia i Volyni v kintsi III – na pochatku II tysiacholittya do nashoyi ery*. Kyiv.
 1976 Problema proiskhozdheniya komarovskoy kultury. In: S.S.Berezanskaya et al. (Eds) *Eneolit i bronzovyi vek Ukrainy. Issledovannya i materialy*, 96-118. Kyiv.
 1990 Stzhizhovskaya kultura. In: E.A. Balaguri, O.P. Chernykh (Ed.) *Arkheologiya Prikarpatia, Volyni i Zakarpatia. Eneolit, bronza i rannee zhelezo*, 68-74. Kyiv.
 1993 Novi pokhovannia pochatku bronzovoho viku na Zakhidniy Volyni. *Studia archaeologica* 1: 23-31.
- Syniuk A.T.
 1996 *Bronzovyi vek basseyna Dona*. Voronezh.
- Szabó Gábor V.
 1997 A Perjámos-Kultúra leletei hódmezővásárhely környékén. In: *Látták Trója kapuit. Bronzkori leletek a Közep-Tisza vidékéről*: 57-84. Gyula.
- Szathmári I.
 1983 Kisapostager Gräber im bronzezeitlichen Gräberfeld von Dunaújváros. *Alba Regia* 20: 7-36.
 1996 Bronze wire and sheet ornaments of the Vatya culture. In: T. Kovács (Ed.) *Studien zur Metallindustrie im Karpatenbecken und den benachbarten Regionen*, 75-87. Budapest.

2002 Neue angaben über die Funde der Vatya-Kultur in der Umgebung von Szigetszentmiklós. *Budapest Régiségei XXXVI*: 235-246.

Szmyt M.

1999 Between West and East. People of the Globular Amphora Culture in Eastern Europe 2960–2350 BC. *Baltic-Pontic Studies* 8.

2000 In the Far of Two Worlds. On the Study of Contacts between the Societs of the Globular Amphora and Yamnaya Cultures. In: S. Kadrow (Ed.) *A Turning of Ages. Im Wander der Zeiten. Jubilee Book Dedicated to Professor Jan Machnik on His 70th Anniversary*, 443-466. Kraków.

Szmyt M., Cherniakov I.T.

1999 Radiocarbon Chronology of «Akkiembetski Kurgan». A Preliminary Report. In: A. Koško (Ed.) *The Foundations of Radiocarbon Chronology of Cultures Between the Vistula and Dnieper: 3150-1850 BC Baltic-Pontic Studies* 7: 196-202.

Šebela L.

1999 *The Cordered Ware Culture in Moravia and in the Adjacent Part of Silesia (Catalogue)*. Brno.

Ślusarska K.

2006 *Funeral rites of the Catacomb community: 2800-1900 BC ritual, thanatology and geographical origins. Baltic-Pontic Studies* 13.

Taras H.

2007 Oddziaływania wschodnioeuropejskie w starszych fazach epoki brązu na społeczności w dorzeczu górnej i środkowej Wisły (ze szczególnym uwzględnieniem Lubelszczyzny). In: M. Gierlach, L. Bakalarska (Eds) *Wspólnota dziedzictwa archeologicznego ziem Ukrainy i Polski. Materiały z konferencji zorganizowanej przez Ośrodek Ochrony Dziedzictwa Archeologicznego. Łańcut (26-28 X 2005 r., 179-195. Warszawa)*.

Tatarinov S.I.

1993 *Drevniy metall Vostochnoy Ukrainy. Oчерki rekonstruktsii gornogo dela, metallurgii i metalloobrabotki v epokhu bronzy (uchebnoe posobie)*. Artemovsk.

Telegin D.Ya.

1991 *Vartovi tysiacholit. Kyiv*.

Telegin D.Y., Pustovalov S.Z., Kovaliukh N.N.

2003 Relative and absolute chronology of Yamnaya and Katakomb monuments the issue of co-existence. A.Koško, V.I. Klochko (Ed.) *The Foundations of Radiocarbon Chronology of Cultures between the Vistula and Dnieper: 4000- 1000 BC. Baltic-Pontic Studies* 12: 132-184.

Terenozhkin A.I.

1961 *Predskifskiy period na Dneprovskom Pravoberezhje*. Kyiv.

Titenko G.T.

1955 Kamennaya stela iz s. *Pervomaevka*. *Kratkie soobshcheniya Instituta archeologii AN USSR*. 5 78-79.

Toshev G.

1987 *Sredniy period bronzovogo veka yugo-zapada SSSR*. (held in the archives of INION AN SSSR. 19.06. g., № 29903.)

1986 Zapadnye sviazi kultury mnogovalikovoi keramiki v Severo-Zapadnom Prichernomorie. In: V.N. Stanko, I.T. Cherniakov (Eds) *Issledovaniya po arkheologii Severo-Zapadnogo Prichernomoria*: 104-115. Kyiv.

1991 Zapadniy areal pamiatnikov katakombnoy kultury. In: *Katakombnye kultury Severnogo Prichernomoria*, 85-100. Kyiv.

1992 *Kurgany epoxi bronzы mezhdurechya Yalpuga i Kagula*. Zaporozhe.

1998 Cultura catacombelor și contactelele ei în partea de vest a arealului. *Thraco-Dacica* 19: 51-69.

2007 *Krym v epokhu bronzы*. Zaporozhe.

Truhelka C.

1909 Kupferfund von Karavida. *Wissenschaftliche Mitteilungen aus Bosnien und der Herzegovina* 11: 50-54.

Vajsov I.

1993 Die frühesten Metalldolche Südost- und Mitteleuropas. *Prähistorische Zeitschrift* 68: 103-145.

Vandkilde H.

1999 Social Distinction and Ethnic Reconstruction in the Earliest Danish Bronze Age. In: *Eliten in der Bronzezeit. Ergebnisse Zweier Kolloquien in Mainz und Athen, vol.1*, 245-276, Mainz.

Vasiliev I.B.

1999 Poselenie Lbische na Samarskoy Luke i nekotorye problemy bronzovogo veka Srednego Povolzhia. In: *Voprosy arkheologii Urala i Povolzhia. K 30-letiyu Srednevolzhskoy arkheologicheskoy ekspeditsii*, 66-114. Samara.

2003 Volsk-Lbische – novaya kulturnaya gruppa epokhi sredney bronzы v Volgo-Uralie. In: *Abashevskaya kulturno-istoricheskaya obshchnost: istoki, razvitie, nasledie*, 107-115. Cheboksary.

Vladár J.

1973 Osteuropäische und mediterrane Einflüsse im Gebiet der Slowakei während der Bronzezeit. *Slovenská Archaeologia* 21: 253-357.

Vollmann D.

- 2009 Der Makó-Kosihy-Čaka-Komplex und die früheste Nagyrév-Kultur an Donau und Theiß. In: V.Becker, M.Thomas, A.Wolf-Schuler *et al.* (Eds) *Zeiten – Kulturen – Systeme. Gedenkschrift für Jan Lichardus*, 271-288. Langenweißbach.

Vulpe A.

- 1961 K voprosu o periodizastii bronzovogo veka v Moldove. *Dacia* 5: 106-122.
1970 Die Äxte und Beile in Rumänien I. In: *Prähistorische Bronzefunde* 9(2). München.

Vynokur J., Hucal A., Mehey V.

- 1998 Doslidzhennia kurhaniv doby bronzы u seli Dorohoschi na Volyni. *Zapysky Naukovoho Tovarystva imeni Shevchenka* 235, *Pratsi Archeolohichnoyi komisii*: 433-465.

Wallerstein E.

- 1974 *The Modern World-System: Capitalist Agriculture and the Origins of the European World-Economy in the Sixteenth Century*. New York.

Wason P.

- 1994 *The archaeology of rank*. Cambridge.

Wetzel G.

- 1990 Die Schnurkeramik in der Oberlausitz und Niederlausitz. *Praehistorica* 19: 43-56.

Witkowska B.

- 2006 Corded Ware culture settlements on Central Europe uplands. *Sprawozdania Archeologiczne* 58: 21-102.

Włodarczak P.

- 1998 Groby kultury mierzanowickiej oraz kultury trzcinieckiej z Żernik Górnych. In: A. Koško, J. Czebreszuk (Eds) „Trzciniec” – system kulturowy czy interkulturowy proces?, *Archeologia Bimaris. Dyskusje* 1, 161-177. Poznań.
2006 *Kultura ceramiki sznurowej na Wyżynie Małopolskiej*. Kraków.
2008 *Kultura żłocka i problem genezy kultury ceramiki sznurowej w Małopolsce. Na pograniczu światów. Studia z pradziejów międzymorza bałtycko-pontyjskiego ofiarowane Profesorowi Aleksandrowi Koško w 60 rocznicę urodzin*. Poznań: 555-576.
2010 Dunajski szlak kultury grobów jamowych a problem genezy kultury ceramiki sznurowej. In: S. Czopek, S. Kadrow (Eds) *Mente et rutro. Studia archeologica Johanni Machnik viro doctissimo octogesimo vitae anno ab amicis, collegis et discipulis oblata*, 299-325. Rzeszów.

Yarovoy E.V.

- 1983 Ohrannyye raskopki u s. Ketrosy. *Pervobytnyye drevnosti Moldavii*. Kishinev: 110-128.
- 1985 *Drevneyshie skotovodcheskie plemena yugo-zapada SSSR (klassifikatsiya pogrebalnogo obriada)*. Kishinev.
- 1990 *Kurgany epokhi eneolita-bronzy Nizhnego Podnestrovia*. Kishinev
- 2000 *Skotovodcheskoe naselenie Severo-Zapadnogo Prichernomoria epokhi rannego metalla*. Avtoreferat dissertatsii na soiskanie nauchnoy stepeni doktora istoricheskikh nauk. Moskva.

Yefimenko P.P, Tretiakov P.N.

- 1961 Abashevskaya kultura v Povolzhie. *Materialy i issledovaniya po arkheologii SSSR* 97: 43-110.

Yovanovich B.

- 1994 Eneoliticheskoe srebro Balkan i Severo-Pontiyskogo Regiona. In: E.V. Yarovoy (Ed.) *Drevneyshie obschnosti zemledeltsev i skotovodov V tys. do n. e. – V v. n. e.: materialy mezhdunarodnoi arkheologicheskoi konferentsii; Tiraspol 10–14 oktiabريا 1994 g.*, 41–42. Tiraspol.

Zahoruiko V.T., Lotorska T.V., Potupchik M.V., Potupchik M.E.

- 1993 Pokhovannia yamnoyi kultury bilia s. Pysarivka. In: *Podilska starovyna*, 108-125. Vinnitsa.

Ziábka L.

- 1987 Cmentarzysko z II okresu epoki brázu z Borku, gm. Godzieszcze Wielkie (stanowisko 1). In: *Kultura trzcinienska w Polsce*, 89-105. Kraków.

Zolashko G.M. (=Zalashka G.M.)

- 1982 *Otchet ob arkheologicheskikh issledovaniakh v Gomelskoy i Brestskoy oblastsiakh v 1982 godu* (held in the archives of II NANB, nr. 806).
- 1983a Kimbarauskae garadzischa. *Pomniki gistoryi i kultury Belarusi* 4: 37-38.
- 1983b *Otchet o polevykh issledovaniakh na territorii pravoberezhya Pripiatsi v 1983 godu* (held in the archives of II NANB, nr. 881).

LIST OF AUTHORS

Jacek Górski
Archeological Museum of Kraków
Senacka 3
31-002 Kraków
Poland
E-mail: jgorski@ma.krakow.pl

Svitlana Ivanowa
Institute of Archaeology
National Academy of Science of Ukraine
Heroyiv Stalingrada 12
04210 Kyiv
Ukraine
E-mail: svi1956@gmail.com

Liubov S. Klochko
Museum of Historical Treasures of Ukraine
Sichnevogo povstannia 21
011015 Kyiv
Ukraine
E-mail: vklochko@ukr.net

Viktor I. Klochko (Kloczko)
Department of Archaeology
National University of Kyiv-Mohyla Akademy
Skovorody 2
04665 Kyiv
Ukraine
E-mail: vklochko@ukr.net

Aleksander Koško
Institute of Prehistory
Adam Mickiewicz Univeristy
Św. Marcin 78
61-809 Poznań
Poland
E-mail: antokol@amu.edu.pl

Mikola Kryvaltsevich
Institute of History
Academy of Sciences of Belarus
F. Skoryna 1
220072 Minsk
Belarus
E-mail: kryvalsevich.arch@tut.by

Sergey D. Lysenko
Institute of Archaeology
National Academy of Science of Ukraine
Heroyiv Stalingrada 12
04210 Kyiv
Ukraine
E-mail: suraganga@andex.ru

Roman O. Lytvynenko
Donetsk National University
Arktiki 6.1-47
83056 Donetsk
Ukraine
E-mail: litrom@andex.ua

Przemysław Makarowicz
Institute of Prehistory
Adam Mickiewicz University
Św. Marcin 78
61-809 Poznań
Poland
E-mail: przemom@amu.edu.pl

Vitaliy V. Otroshchenko
Institute of Archaeology
National Academy of Science of Ukraine
Heroyiv Stalingrada 12
04210 Kyiv
Ukraine
E-mail: otrok_o@ukr.net

Gennadij N. Toshev
Zaporizhyya National University
Zhukovskogo Street 66
69063 Zaporizhzhyya
Ukraine
E-mail: gent51@mail.ru

- Vol.1: *Weapons of the Tribes of the Northern Pontic Zone in the 16th–10th Centuries BC.*, by Viktor I. Klochko.
- Vol.2: *Nomadism and Pastoralism in the Circle of Baltic–Pontic Early Agrarian Cultures: 5000–1650 BC*, edited by Aleksander Koško.
- Vol.3: *Cemeteries of the Sofievka type: 2950–2750 BC*, edited by Aleksander Koško.
- Vol.4: *Eastern Exodus of the Globular Amphora People: 2950–2350 BC*, edited by Aleksander Koško.
- Vol.5: *Beyond Balkanization*, edited by Lucyna Domańska, Ken Jacobs.
- Vol.6: *The Trzciniec Area of the Early Bronze Age Civilization: 1950–1200 BC*, edited by Aleksander Koško.
- Vol.7: *The Foundations of Radiocarbon Chronology of Cultures Between the Vistula and Dnieper: 3150–1850 BC*, edited by Aleksander Koško.
- Vol.8: *Between West And East People of The Globular Amphora Culture in Eastern Europe: 2950-2350 BC*, by Marzena Szmyt.
- Vol.9: *The Western Border Area of the Tripolye Culture*, edited by Aleksander Koško.
- Vol.10: *Weaponry of Societes of the Northern Pontic Culture Circle: 5000–700 BC*, by Viktor I. Klochko.
- Vol.11: *Fluted Maces in the System of Long-Distance Exchange Trails of the Bronze Age: 2350–800 BC*, edited by Aleksander Koško.
- Vol.12: *The Foundations of Radiocarbon Chronology of Cultures Between the Vistula and Dnieper: 4000–1000 BC*, edited by Aleksander Koško and Viktor I. Klochko.
- Vol.13: *Funeral Rites of the Catacomb Community: 2800–1900 BC Ritual, Thanatology and Geographical Origins*, by Katarzyna Ślusarska.
- Vol.14: *Routes between the Seas: Baltic-Bug-Boh-Pont from the 3rd to the Middle of the 1st Millennium BC*, edited by Aleksander Koško and Viktor I. Klochko.
- Vol.15: *‘Cord’ Ornaments on Pottery in the Vistula and Dnieper Interfluvial Region: 5th – 4th Mill. BC*, edited by Aleksander Koško and Marzena Szmyt.
- Vol.16: *Flint Atrifacts of Northern Pontic Population of the Early and Middle Bronze Age: 3200 – 1600 BC*, by Serhiy M. Razumov
- Vol.17: *Wood Tar in the Dnieper and Elbe Communities: VI – II Millenium BC*, by Sławomir Pietrzak

Orders regarding *Baltic-Pontic Studies* should be addressed directly to the Editorial Office (*B-PS*, Institute of Prehistory, Św. Marcin 78, 61-809 Poznań, Poland). E-mail: iplib@amu.edu.pl; antokol@amu.edu.pl
Moreover, we are pleased to inform that *B-PS* volumes currently out of print (1, 2, 3, 4 and 8) are available online at the Adam Mickiewicz University Repository (AMUR): repozytorium.amu.edu.pl

This publication is part of the National Science Centre research project, grant no. 2011/01/M/HS3/02142, in the context of publishing and related funding from Adam Mickiewicz University, Poznań.

ISBN 83-86094-18-4

ISSN 1231-0344