

# **EASTERN EXODUS OF THE GLOBULAR AMPHORA CULTURE PEOPLE**

**Mikhail M. Charniauski**

**Stanisław Gołub**

**Sławomir Kadrow**

**Wiesław Koman**

**Wanda Kozak-Zychman**

**Mykola Kryvaltsevich**

**Yuriy Maleyev**

**Boris Pryshchepa**

**Yuriy Y. Rassamakin**

**Irina L. Serdyukova**

**Svyatoslav V. Shelomentsev-Terskiy**

**Evgeniy A. Shmidt**

**Marzena Szmyt**

**Józef Ścibor**

**BALTIC-PONTIC STUDIES**

---

**V O L U M E 4 • 1996**

BALTIC-PONTIC STUDIES  
61-809 Poznań (Poland)  
Św. Marcin 78  
Tel. (061) 536709 w. 147 Fax (061) 536-536

EDITOR  
Aleksander Koško

EDITORIAL COMMITTEE  
Sophia S. Berezanskaya (Kiev), Aleksandra Cofta-Broniewska  
(Poznań), Mikhail Charniauski (Minsk), Lucyna Domańska  
(Łódź), Viktor I. Klochko (Kiev), Petro Tolochko (Kiev)

SECRETARY  
Marzena Szmyt

ADAM MICKIEWICZ UNIVERSITY  
EASTERN INSTITUTE  
INSTITUTE OF PREHISTORY  
Poznań 1996  
ISBN 83-86094-03-6  
ISSN 1231-0344

# **EASTERN EXODUS OF THE GLOBULAR AMPHORA CULTURE PEOPLE**

**Mikhail M. Charniauski**  
**Stanisław Gołub**  
**Sławomir Kadrow**  
**Wiesław Koman**  
**Wanda Kozak-Zychman**  
**Mykola Kryvaltsevich**  
**Yuriy Maleyev**  
**Boris Pryshchepa**  
**Yuriy Y. Rassamakin**  
**Irina L. Serdyukova**  
**Svyatoslav V. Shelomentsev-Terskiy**  
**Evgeniy A. Shmidt**  
**Marzena Szmyt**  
**Józef Ścibor**

**BALTIC-PONTIC STUDIES**

---

**V O L U M E 4 • 1996**

© Copyright by BPS and Authors  
All rights reserved

Cover Design: Eugeniusz Skorwider

Linguistic consultation: James Grossklag

Printed in Poland

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

## CONTENTS

INTRODUCTION .....	3
Marzena Szmyt, GLOBULAR AMPHORA CULTURE IN EASTERN EUROPE. PRESENT STATE OF RESEARCH AND POSSIBILITIES FOR FUTURE STUDIES .....	3
SOURCES .....	28
Józef Ścibior, Wiesław Koman, GRAVE OF THE GLOBULAR AMPHORA CULTURE FROM SITE NO. 27 IN ŚWIERSZCZÓW (PROV. OF ZAMOŚĆ, POLAND) .....	28
Stanisław Gołub, GRAVE OF THE GLOBULAR AMPHORA CULTURE FROM SITE NO. 8 IN KRASNYSTAW (PROV. OF CHEŁM, POLAND) .....	35
Stanisław Gołub, GRAVE OF THE GLOBULAR AMPHORA CULTURE FROM SITE NO. 1 IN ŁOPIENNIK DOLNY KOLONIA (PROV. OF CHEŁM, POLAND) .....	44
Wanda Kozak-Zychman, ANTHROPOLOGICAL DESCRIPTION OF BONE REMAINS FROM A GRAVE OF GLOBULAR AMPHORA CULTURE IN ŁOPIENNIK DOLNY KOLONIA, SITE 1 (PROV. OF CHEŁM, POLAND) .....	51
Yuriy Maleyev, SELECTED GRAVES OF GLOBULAR AMPHORA CULTURE FROM VOLHYNIA AND PODOLIA (UKRAINE) .....	53
Yuriy Maleyev, Boris Pryshchepa GRAVE OF GLOBULAR AMPHORA CULTURE FROM TOVPYZHYN (DISTRICT OF RIVNE, UKRAINE) .....	62
Svyatoslav V. Shelomentsev-Terskiy, SETTLEMENT OF GLOBULAR AMPHORA CULTURE IN PERESOPNITSA, THE VOLHYNIA REGION (UKRAINE) .....	70

Evgeniy A. Shmidt, Marzena Szmyt RITUAL COMPLEX OF THE GLOBULAR AMPHORA CULTURE ON THE UPPER DNIEPER BASIN (RUSSIA) .....	79
Mikhail M. Charniauski, MATERIALS OF GLOBULAR AMPHORA CULTURE IN BELORUS .....	87
Mykola Kryvaltsevich, GRAVE OF THE MIDDLE DNIEPER CULTURE FROM PRORVA, SITE 1 (GOMEL REGION, BELORUS) .....	98
ANALYSIS .....	103
Sławomir Kadrow, Marzena Szmyt, ABSOLUTE CHRONOLOGY OF THE EASTERN GROUP OF GLOBULAR AMPHORA CULTURE .....	103
Yuriy Y. Rassamakin, ON EARLY ELEMENTS OF THE GLOBULAR AMPHORA CULTURE AND OTHER CENTRAL EUROPEAN CULTURES IN THE LATE ENEOLITHIC OF THE NORTHERN BLACK SEA REGION .....	112
Irina L. Serdyukowa, CONTRIBUTION TO THE ORIGIN OF THE BRONZE AGE IN THE MIDDLE DNIEPER REGION .....	133
References .....	156
List of Authors .....	170

## Editor's Foreword

Globular Amphora culture settlements make one of the most important systems of circulation of cultural patterns in the border zone between the drainage areas of the Baltic and Black Seas. One aspect of this problem, namely the „eastern exodus” mentioned in the title, has seemingly rich historiography. Under closer scrutiny, however, it reveals many intuitive opinions based on weak and insufficiently explored sources. This belief lay behind the present issue of the „Baltic-Pontic Studies”. The papers presented in this issue open new areas of discussion of the problems in question. For the first time, the discussion is set against an incontrovertible scale of absolute chronology. This issue anticipates a broader synthesising presentation to be published in the not too distant future.

## Editorial comment

1. All dates in the *B-PS* are calibrated [see: *Radiocarbon* vol.28, 1986, and the next volumes]. Deviations from this rule will be point out in notes.

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

3. The place names located in the Ukraine have been transliterat from the versions suggested by the author (i.e. from the Belorussian, Ukrainian, Polish or Russian originals).

**Stanisław Gołub**

**GRAVE OF THE GLOBULAR AMPHORA CULTURE  
FROM SITE NO. 8 IN KRASNYSTAW (PROV. OF CHEŁM,  
POLAND)**

In May 1981, an accidental discovery of a grave of the Globular Amphora culture (GAC) was made in Krasnystaw. A random selection of finds was presented to the local Museum by a history teacher. The finds were preselected and partially reconstructed by Sławomir Kadrow, at that time the Museum's employee.

In 1982, the present author verified the location of the grave and arranged for the pottery to be reconstructed. The site is located in area no. 83-87 and has been given number 8 within the locality. The area forms a part of the Dorohusk Valley. The artefacts were found in the slope of a high protruding terrace built of stratified loess of high thickness (Fig. 1). The inventory of the supplied artefacts is designated MK/A/173. Artefacts from surface exploration are in the District Museum in Chełm under call number MCH/A/389.

1. DESCRIPTION OF MATERIALS

Already in 1981 an entry appeared in the inventory book saying that there were two flint axes in the grave. Only on 27 August 1981 did the discoverer of the grave, J. Kluch, give more specific information about the find. It transpired that there had not been any axes but probably three flint chips.

It follows from the discoverer's account that the vessels and bones were found buried in loess soil 1.3 to 1.5 m below the surface. He is positive that there was not any stone structure. The vessels were located at the same depth next to each other. He remembers ash. While excavating foundations it seemed to him that the soil had been turned before. It could be an indication of the presence of the outline of a burial pit.

After reconstruction and conservation seven vessels have been obtained.

1. A medium-size, bulbous, flat-bottom amphora with a medium high, pro-

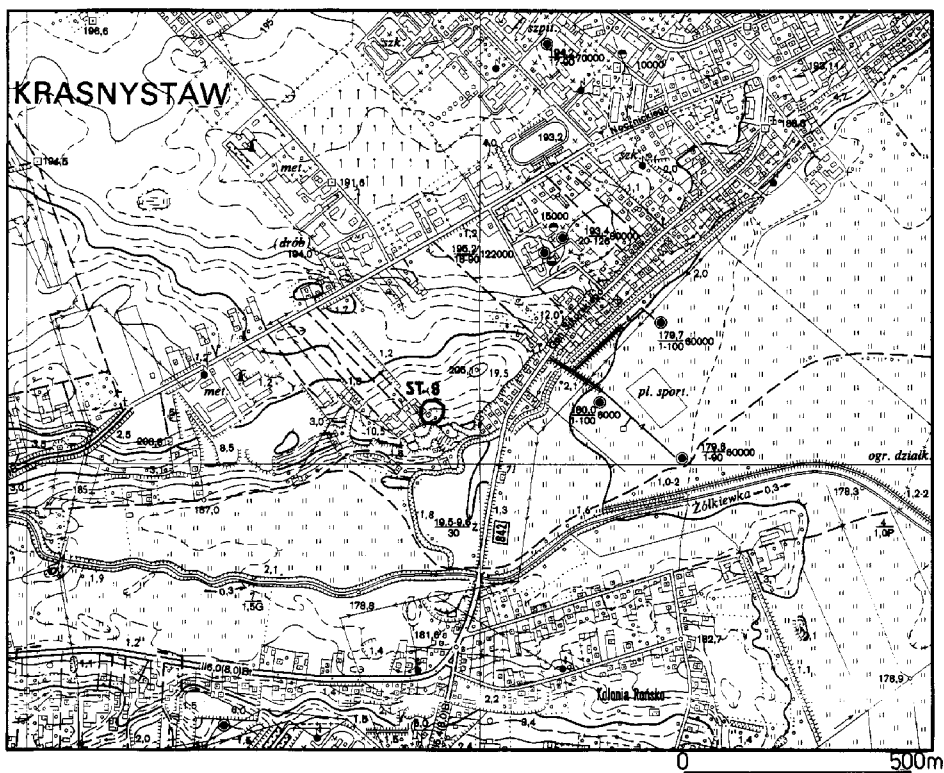


Fig. 1. Location map

minent neck (Fig. 2:1); completely reconstructed, similar to type IIA1 [Wiślański 1966:28-29]. The lip is slightly thickened and flared. The prominent bottom containing coarse, sharp-edged gravel has not been smoothed leaving it uneven on the outer side. It has four rounded handles with horizontal perforations (width 16-18 mm, diameter R about 7 mm). Undecorated. It is made of clay thinned down with mainly fine and also medium-size gravel of white, grey and pink colours. Small amounts of sand and mica are present as well. Outer and inner surfaces are uneven but well smoothed by smearing with slip. The colour has a patchy structure from bright yellow to greyish black. Wall fractures are invisible (thickness G: 6 to 6.5 mm). Dimensions: height (H): 222 mm, lip diameter (R1): 140 to 155 mm (form of ellipse), maximum belly diameter (R2): 285 mm, bottom diameter (R3): 115 mm.

2. A small amphora reconstructed up to the bend of belly, with a medium high, prominent neck (Fig. 2:2). The lip thins and slightly flares outwards. It has four rounded handles with horizontal perforations (R: 5.5-7 mm) placed at equal distances from each other and from the lip. The perforations were made with a

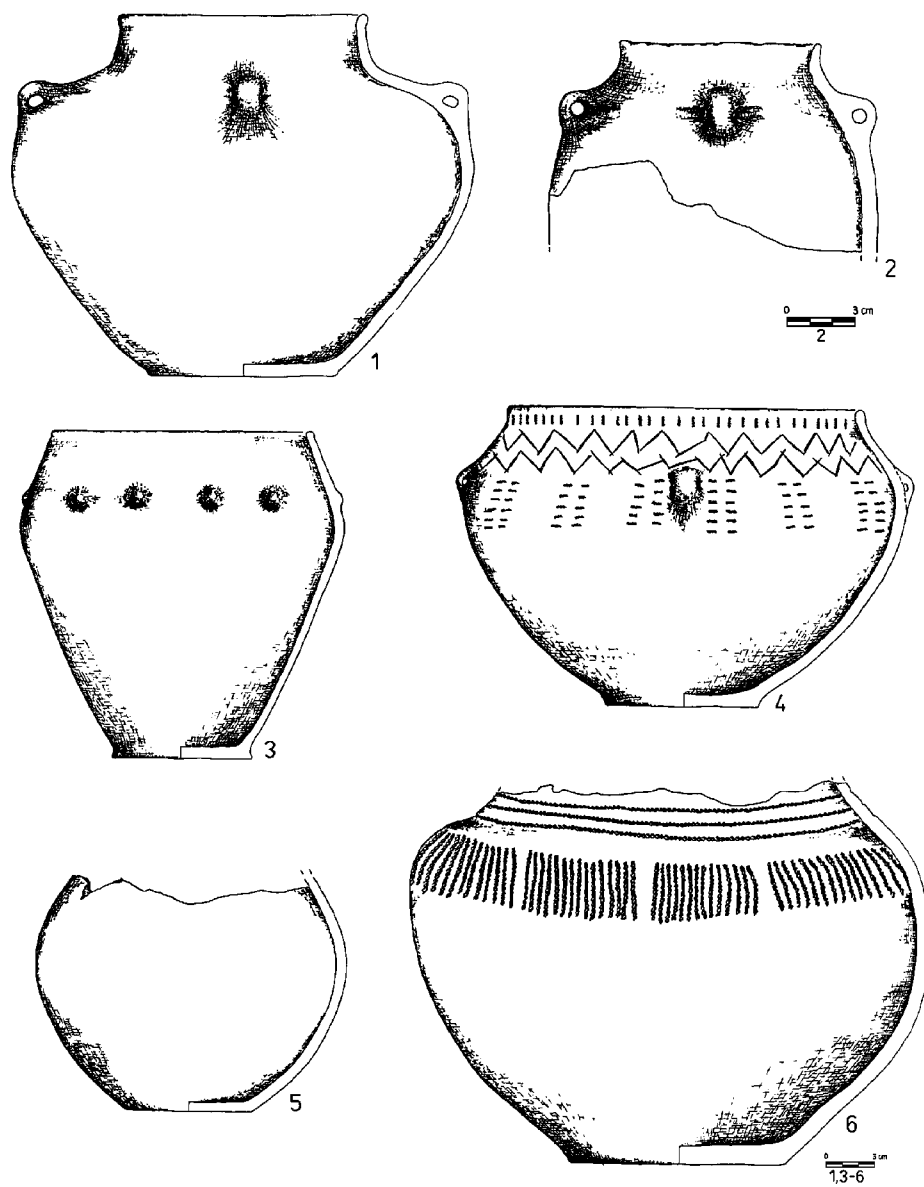


Fig. 2. Krasnystaw site 8. Vessels from the grave

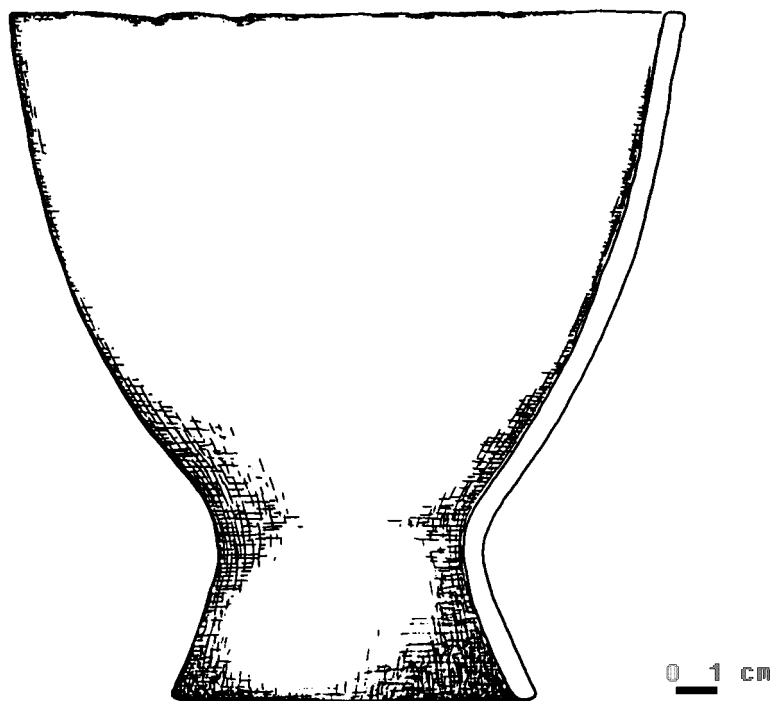


Fig. 3. Krasnystaw site 8. A ceramic drum from the grave

kind of round stick (?) which left a groove up to 40 mm wide and parallel to the lip. Undecorated. It is made of clay thinned down with fine and also medium-size gravel of white, grey, pink and black colours and with small amounts of fine sand. The outer surface is smooth and even with slight traces of burnishing. The inner surface, though, is very uneven and only slightly smoothed out. The colour is light and dark brown with patches of grey and black. Wall fractures are invisible (G: 6.5 to 7 mm). Dimensions: R1: 88-91 mm, R2: 144 mm.

3. A wide-opening pot with a flat, prominent bottom reminding of group VIIIA2 forms [Wiślański 1966:34]. Fully reconstructed (Fig. 2:3). The lip thins towards the edge, although it is thickened at places; the bottom is prominent and uneven on the outer side. There is an ornament of 11 relief buttons placed at different intervals from each other and at a more or less even distance from the lip edge. The pot has an admixture of sharp-edged gravel of various sizes and of pink and white colours. The gravel is responsible for local fracturing of the pot and for its rough outer texture. There is a small content of fine sand and burnt potsherds. Outer and inner surfaces have clearly been burnished, especially in the lip part. The colours are light to dark brown and black of patchy structure. The fracture is stratified consisting of



Fig. 4. Krasnystaw site 8. A ceramic drum from the grave. Photo by S. Gołub

three layers (thin outer and inner slip smearing). G: 3.6 to 6.3 mm. Dimensions: H: 203 mm, R1: 163-170 mm, R2: 201 mm, R3: 84-87 mm.

4. A fully reconstructed ceramic drum (Fig. 3 and 4), group IX [Wiślański 1966:24]. The lip is uneven but only slightly marked. The bottom has been reconstructed on the basis of dimensions. No ornamentation. It contains an admixture of fine, medium (dominating) and coarse, sharp-edged gravel. At certain places, this causes roughness of surface. The grains of the rough gravel, sometimes 6-7 mm in diameter, cause fracturing on the outer surface. The colours of the gravel are white, yellow, brown and grey. The outer and inner surfaces are smoothed and burnished in various directions. The colour of the vessel is from light brown to greyish-brownish-black and has patchy structure. Wall fracture is invisible (G: 6.5-7 mm). Dimensions: H: 181 mm, R1: 170-179 mm, R3: 97 mm, R of neck: 70 mm.

5. A fully reconstructed bowl (Fig. 2:4) of type IVA1 [Wiślański 1966:30]. The lip is low, slightly marked and thickened (visibly rounded). The bottom is poorly marked and has rounded edges. It has four rounded handles, 10-18 mm wide, horizontally perforated with a narrow tool. The vessel is richly decorated with impressions of a stamp and incisions (up to 2-3 mm deep). Vertical sections of the stamp pattern (7 mm long) run around the vessel beneath the lip. They are placed more or less regularly 5-7 mm from each other. Underneath, there are two rows of incised zigzags ringing the vessel. The zigzags must have been incised with a narrow, sharpened stick

or a bone leaving a V-shaped trace. At the most protruding portion of the belly there are horizontal sections of stamp impressions forming altogether 13 groups, each group consisting of two columns which, in turn, in most cases have five impressions each. The vessel contains an admixture of fine, medium and coarse gravel of white, grey and pink colours and also small amounts of fine sand and mica. The outer surface is light brown in its lower part and greyish black in the upper. It has patchy structure and is well smoothed. The inner surface is of light brown colour and smooth. The fracture is stratified and consists of three layers (slip smearing). G: 6.5 mm. Poorly baked. An outer, thin film is peeling off. Dimensions: H: 176-184 mm, R1: 219-225 mm, R2: 275 mm (without handles), R3: 95-100 mm.

6. A bottom part of a reconstructed, bulbous vessel (Fig. 2:5). The bottom is flat and almost round. No ornament. It contains an admixture of fine gravel and a little sand. Sporadically, there are lumps of larger grain gravel. The admixture is well mixed with clay so that it is hardly visible from outside or inside. The outer surface must have been lightly burnished diagonally and smoothed. The inner surface, however, has been only smoothed. The colour is brown-grey-black and patchy. The fracture is three-layered with outer and inner slip smearing (G: 5-6.4 mm). Dimensions: R2: 192 mm, R3: 78 mm.

7. A partially reconstructed vessel (Fig. 2:6). The lip part is missing. The bottom is only slightly marked. The vessel displays an ornament of three circumferential corded lines. Below them, there are sections of corded ornament, vertical or oblique, each about 40 mm long. An admixture of fine, medium and mainly coarse gravel of white and pink colours is noticeable. A small amount of fine sand is present. The outer and inner surfaces are slightly uneven but are well smoothed. The colour of the vessel is light brown to greyish-black and has patchy structure. The fracture is three-layered. Dimensions: R2: 320 mm, R3: 134 mm.

## 2. RESULTS OF ANIMAL BONE ANALYSIS

The analysis was carried out by A. Lasota-Moskalewska.

The majority of remains comes from two young pigs. One of them was about one year old, while the other was 3 years old. Both of them were morphologically immature because the bases of long bones were not knitted with shafts. Despite their young age, these were large animals. The older one was 72 cm in withers.

The bones make up almost a full skeleton except for the bones of the cerebral and visceral parts of the skull and for vertebrae (Fig. 5). It seems that the missing of the axial portion of the skeleton is intentional. Since the bones are quite well preserved, it can be presumed that once placed in the ground all of them had the same chance of survival. Besides, they bear no signs of intentional chopping.

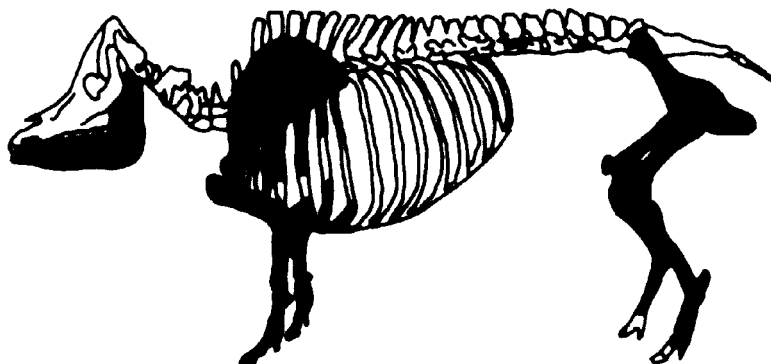


Fig. 5. Krasnystaw site 8. Diagram of selective interment of pig bones of two individuals. Black colour marks identified bones.

A small number of bones of a sheep or a goat were also identified. Among them were badly damaged fragments of two bones from a pelvic limb and a few ribs.

*Bone catalogue*

Pig: 6 frag. of teeth, 2 frag. of a metacarpus, a frag. of the scapula, 9 frag. of ribs, a frag. of the sternum, a patella, 3 bones of the instep, 8 frag. of the pelvis, 7 frag. of the mandible, 5 frag. of the radius, 3 frag. of tibiae, 4 frag. of femurs, a frag. of the talus, 3 frag. of ulnae, 8 frag. of humeri.

Sheep/goat: 4 frag. of ribs, 3 frag. of tibiae, 6 frag. of femurs.

Undetermined: 80 fragments.

### 3. RESULTS OF HUMAN BONE ANALYSIS

The analysis was carried out by W. Kozak-Zychman.

Bone remains of different structure and shape belonged to two adult individuals. Individual No. 1 was a man who died at the age of about 50 years (Maturus).

Survival body height reconstructed by the method of L. Manouvrier was about 160 cm, which indicates that the individual was of a rather short posture.

Of the skull, a small, 6-7 mm thick fragment of the parietal bone has survived. A section of the lambdoid suture included in it is obliterated on the outside and completely sealed on the inside. The postcranial skeleton is represented by:

- right femur: the head, greater trochanter and medial condyle are damaged; physiological length (M-2 measurement acc. to R. Martin): ca 420 mm; maximum length (M-1 measurement): ca 425 mm;

- a fragment of the left femur: the upper part of the shaft and the lateral condyle are damaged; the head is separated from the shaft; diameter ca 44 mm;
- both tibiae: lower parts of the shafts and lower bases are damaged; in the right tibia the medial condyle and in the left tibia the lateral one are also damaged; a fragment of the lower base is separated from the bone;
- the middle parts of shafts of both fibulae and the lower base of the left one;
- fragments of both calcanei: in the left one, the lateral part is damaged; of the right one, the posterior part with the calcaneal tubercle has survived.

Individual No. 2. was a woman who died at the age of about 25 to 30 years (Adultus). Of the skull, fragments of both parietal bones with their plates remained. Of the right parietal bone remained four fragments (3 of them fit together); the parietal edge and frontal angle are damaged; thickness: 2 to 4 mm and 6 mm at the sphenoid angle. Of the left parietal bone remained three fragments that fit together and another four including the mastoid angle; the central part has survived, while the edges are damaged; thickness: 2 to 4 mm.

The postcranial skeleton is represented by:

- the middle portion of the left humerus shaft and its lower base,
- a fragment of the left ulna; the lower portion of the shaft and distal base are damaged,
- fragments of both femora: of the right one has survived the upper portion of the shaft; of the left one the damaged head, smaller trochanter and lower base; also a separate part of a head of femur;
- a fragment of the right tibia shaft with the lower base and the middle portion of the left tibia shaft;
- the middle portion of the left fibula shaft;
- a fragment of the left calcaneus with the surviving posterior ankle surface;
- the right talus and a fragment of the left one with the posterior talocalcanean surface.

Some bone fragments, which cannot be easily ascribed to a specific individual, have been excluded. Among them were:

- pieces of pelvis, including a fragment of the right (with part of hip joint) ilium and the left ilium (with ear-like surface), a piece of the iliac plate (possibly belonging to a male),
- part of a vertebral arch;
- two proximal foot phalanges, including toe no. 1;
- small pieces of long bone shafts.

Human bones were submitted to the  $^{14}\text{C}$  analysis [see Kadrow, Szmyt, Absolute. . . , in this volume].

## 4. CONCLUSIONS

Due to a small amount of remains and the accidental discovery of the grave resulting in insufficiency of information, interpreting is particularly difficult. The find, because of the absence of any stone structure and the presence of a ceramic drum, is exceptional. In the dozen or so of GAC graves that have been already discovered in the Prov. of Chełm, stone structures clearly dominate. Nevertheless, several graves have been found that did not have any such structures — the closest is located in Stadarnia [Skibiński 1958:384], others in Wytyczno [Gurba 1957:160] and Raciborowice. Flat burials, as probably the feature in Krasnystaw, are believed to be typical of the western group of the GAC. However, their incidence in the area of Lublin (Lublin, Las Stocki, Strzyżów, Świerszczów in eastern Poland) has recently gone up. The number of vessels is relatively large, which distinguishes this grave complex from others [Nosek 1967:273]. Technologically, the vessels are quite uniform. Granite gravel is a dominant admixture, outer and inner surfaces are smoothed and colours have a patchy structure. The last mentioned characteristic testifies to uneven baking in open hearths. The ornamentation is also typical of complexes of the Polish territorial group of the GAC and of nearby complexes. Selected pig remains, with additions of goat/sheep bones, are also an observable phenomenon, whereas the presence of the ceramic drum, bearing a close resemblance to the form found in Pikutkowo at site 5B [Wiślański 1966:222-225] is an absolutely exceptional occurrence. It can be explained by treating it as an import from western Poland.

*Translated by Piotr T. Żebrowski*

## ABBREVIATIONS

AAC	– Acta Archaeologica Carpathica, Kraków.
AO	– Arkheologicheskiye otkrytiya, Moskva.
BPS	– Baltic-Pontic Studies, Poznań.
JIES	– The Journal of Indo-European Studies, Berkeley.
KSIA	– Kratkiye soobshcheniya Instituta Arkheologii, Moskva.
KSIA AN USSR	– Kratkiye soobshcheniya Instituta Arkheologii AN USSR, Kiev.
MIA	– Materialy i issledovaniya po arkheologii, Moskva.
SA	– Sovetskaya Arkheologia, Moskva.

## REFERENCES

- Antoniewicz W.  
1938 Z dziedziny archeologii ziem Polski. *Światowit* 17 (1936): 341-422.
- Arkheologiya  
1985 *Arkheologiya Ukrainiskoy SSR*, 2nd edition, vol.1. Kiev.
- Artemenko I.  
1985 Srednedneprovskaya kultura. In: *Arkheologiya Ukrainiskoy SSR*, vol.1, 364-375. Kiev.  
1987 Kultury rannego bronzovogo veka yuzhnoy polosy lesov Evropeyskoy chasti SSSR. In: *Epokha bronzы lesnoy polosy SSSR*, 35-51. Moskva.
- Äyräpää A.  
1933 Über die Streitaxtkulturen in Russland. *Eurasia Septentrionalis Antiqua* 8: 1-160.
- Beier H.J.  
1988 *Die Kugelamphorenkultur im Mittelbe-Saale-Gebiet und in der Altmark*. Veröffentlichungen des Landesmuseums für Vorgeschichte in Halle, Band 41. Berlin.
- Berezanskaya S.  
1975 Neolitieskaya stoyanka u khut. Grischevka na Sredney Desne. *SA* 2: 148-167.
- Berezanskaya S., N. Bondar  
1964 Poselennya epokhi rannoy bronzы v Kanevi. *Archeologiya* 17: 32-51.
- Berezanskaya S., V. Pyasetskiy  
1979 Pershe poselennya kultury kulyastykh amfor na Ukraini. *Archeologiya* 30: 75-82.

- Bondar N.  
1974 *Poseleniya Srednego Podneprovya epokhi ranney bronzy*. Kiev.
- Bratchenko S.  
1977 K voprosu o slozheni babinskoy kultury mnogovalikovoy keramiki. In: *Vilnyanskiye kurgany v Dneprovskom Nadporozhye*, 21-42. Kiev.
- Bratchenko S., O. Shaposhnikova  
1985 Katakombnaya kulturno-istoricheskaya obshchnost. In: *Arkheologiya Ukrainskoy SSR*, vol.1, 403-420. Kiev.
- Breunig P.  
1987 *14C – Chronologie des vorderasiatischen, südost- und mitteleuropäischen Neolithikums*. Köln-Wien.
- Bryusov A.  
1952 *Ocherki po istorii plemen evropeyskoy chasti SSSR v neolicheskuyu epokhu*. Moskva.
- Charniauski M.M. (Cherniavski M.M.)  
1969 Pogrebeniye bronzovogo veka vozle m.Kuranets. In: *Tezisy dokladov k konferentsii po arkheologii Belarusii*, 59-62. Minsk.  
1972 Mogilnik na Rosi. In: *Pomniki gistory i kultury Belarusi 4*.  
1979 *Neolit Belaruskaga Paniamonnya*. Minsk.  
1987a Kamenniy i bronzoviy veka Poniemanya i Podvinya. In: *Belorusskaya Arkheologiya*, 37-48. Minsk.  
1987b The Neolithic in north-western Byelorussia. In: T.Wiślański (Ed.) *Neolit i poczatkii epoki brązu na ziemi chełmińskiej*, 429-440. Toruń.  
1992 Mogilniki kultury sharapadobnykh amfar na Grodzenshchynie. In: *Z glybi vyakov. Nash Kray*, 5-15. Minsk.  
1995 BY 1 Krasnaselsky, Grodna Province. By 2 Karpautsy, Grodna Province. Ancient flint mines in Belarus. *Archaeologia Polona* 33: 263-269.
- Charniausky M.M., V.Y. Kudrashov, V.L. Lipnitskaya  
1996 *Starazhytniya shakhtsyory na Rosi*. Minsk.
- Chernysh E.K.  
1982a Eneolit Pravoberezhnoy Ukrainy i Moldavii. In: *Eneolit SSSR*, 166-252. Moskva.  
1982b Pamyatniki sinchronnykh Tripolyu kultur Yugo-Zapada SSSR. In: *Eneolit SSSR*, 253-263. Moskva.
- Childe V.G.  
1925 *The Dawn of European Civilization*. London.  
1930 *The Danube in Prehistory*. Oxford.
- Czebreszuk J.  
1990 Late horizon of the Globular Amphorae culture versus other cultural structures of the Neolithic-Bronze Age interstage. Problem of system disintegration. In: *New tendencies in studies of Globular Amphora culture*. Archaeologia Interregionalis 14, 113-136. Warszawa-Kraków-Poznań.

Czebreszuk J., P. Makarowicz

- 1993 The problem of amber buttons with V-shaped perforation in the Bell Beaker culture. In: *Actes du XIIe Congrès International des Sciences Préhistoriques et Protohistoriques*, 1-7 Septembre 1991, vol.2, 529-532. Bratislava.

Dergachev V.A.

- 1982 *Materialy raskopok arkheologicheskoy ekspeditsii na Srednem Prute (1975-1976)*. Kishinev.

- 1986 *Moldavia i sosedniye territorii v epokhu bronzy*, Kishinev.

Dergachev V.A., I.V. Manzura

- 1991 Evropeyskiy komponent maykopskoy kultury v kontekste vzaimosvyazyey tsentralno- i vostochnoevropeyskikh obshchnostey. In: *Maykopskiy fenomen v drevney istorii Kavkaza i Vostochnoy Evropy*, 55-58. Leningrad.

Dinu M.

- 1960 K voprosu o kulture sharovidnykh amfor na territorii Moldavii. *Dacia* 4: 89-106.

Dolukhanov P.M., A.M. Miklayev

- 1979 Kulturno-istoricheskiye osnovy postroyeniya absolutnoy khronologii neolita i ranney bronzy v bassejne Zapadnoy Dviny. *KSIA* 157: 73-81.

Dolukhanov P.M., Tretyakov V.P.

- 1979 Dnepro-donetskiy neolit i kultura voronkovidnykh kubkov k severu ot Karpat. *AAC* 19: 37-50.

Gereta I.P.

- 1970 Noviye nakhodki kultury sharovidnykh amfor v zapadnom Podolye. *AO 1969 goda*, 231. Moskva.

Gereta I.P., E.A. Kharitonov

- 1970 Doslidzhennya novykh arkheologichnykh pamyatok v Zakhidnomu Podilli. In: *Materialy Tryetyoy Podilskoy Istoriko-Krayeznavchoy Konferentsii*, 153-158. Lviv.

Gimbutas M.

- 1956 *The Prehistory of Eastern Europe*, vol. 1, Cambridge.

- 1977 The First Wave of Eurasian Steppe Pastoralists into Copper Age Europe. *JIES* 4: 277-339.

- 1980 The Kurgan Wave #2 (c. 3400-3200 BC) into Europe and the Following Transformation of Culture. *JIES* 8: 273-315.

- 1985 East Baltic Amber in the Fourth and Third Millennium B.C. *Journal of Baltic Studies* 16(3): 231-256.

- 1991 *The Civilization of the Goddess. The World of Old Europe*, San Francisco.

Głósik J.

- 1968 Kultura strzyżowska. *Materialy Starożytność* 11:7-114.

Gorodtsov V.

- 1915 Kultury bronzovoy epokhi v Sredney Rossii. In: *Otchet istoricheskogo muzeya za 1914 g.* Moskva.

- Gurba J.  
1957 Materiały do badań nad neolitem Małopolski. *Annales UMCS Sectio F* (1954) 9: 129-178.
- Gurina N.N.  
1976 *Drevniye kremnedobyvayushchiye shakhty na territorii SSSR*. Leningrad.
- Halicki M.  
1970 Cmentarzyska kultury amfor kulistych i kultury pucharów lejkowatych w Klementowicach, pow. Puławy na stanowisku IV. *Wiadomości Archeologiczne* 35(3): 303-325.
- Haüsler A.  
1964 Die Gräber der ältesten Ackerbauern in der Ukraine. *Wissenschaftliche Zeitschrift der Martin-Luther Universität Halle-Wittenberg* 12(11/12).  
1966 Die Gräber der Kugelamphorenkultur in Wolhynien und Podolien und die Frage ihres Ursprungs. *Jahresschrift für mitteldeutsche Vorgeschichte* 50: 115-140.  
1974 Die Bestattungssitten des Früh- und Mittelneolithikums und ihre Interpretation. In: F.Schlette (Ed.) *Evolution und Revolution im Alten Orient und Europa*, 101-119. Berlin.  
1989 Zur Problematik des Bestattungsrituals im Äneolithikum Mitteleuropas. In: *Das Äneolithikum und die früheste Bronzezeit (ca 3000-2000 BC)*. *Præhistorica* 15:163-166. Praha.  
1994 Die Majkop-Kultur und Mitteleuropa. *Zeitschrift für Archäologie* 28: 191-246.
- Hensel W.  
1974 *Ur- und Frühgeschichte Polens*. Berlin.
- Jahn A.  
1956 *Wyżyna Lubelska. Rzeźba i czwartorzęd*. Warszawa.
- Jastrzębski S.  
1989 *Kultura Cucuteni-Trypole i jej osadnictwo na Wyżynie Wołyńskiej*. Lublin.
- Kadrow S.  
1995 Absolute chronology of the Sofievka type in the light of "wiggle matching" analysis. In: *Cemeteries of the Sofievka type: 2950-2750 BC*, BPS 3:141-147.
- Kadrow S., A. Kośko, M. Videiko  
1995 Pottery stylistics of the Sofievka type, genetic-cultural qualification. In: *Cemeteries of the Sofievka type: 2950-2750 BC*, BPS 3:200-213.
- Kalechyts E.G.  
1987 *Pamyatniki kamennogo i bronzovogo vekov Vostochnoy Belorussii*. Minsk.
- Kavalskaya K., M. Charniauski  
1988 Starazhitnaye pakhavannye. In: *Pomniki gistorii kultury Belarussii*, 17-18. Minsk.

Kempisty E.

- 1971 Kultura amfor kulistych na Mazowszu i Podlasiu. *Materiały Starożytne i Wczesnośredniowieczne* 1: 7-34.

Kirkowski R.

- 1984 Z badań nad recepcją tradycji kulturowych strefy nadczarnomorskiej wśród społeczeństw Nizy Polski u schyłku III tysiąclecia p.n.e. *Archeologia Polski* 29(1): 57-67.

Kirkowski R., J. Sosnowska

- 1987 Kultura amfor kulistych na ziemi chełmińskiej. In: T. Wiślański (Ed.) *Neolit i początki epoki brązu na ziemi chełmińskiej*, 185-200. Toruń.

Kiyashko V.Y.

- 1974 *Nizhneye Podonye v epokhu eneolita i ranney bronzы*. Avtoreferat dissertatsii na soiskaniye uchenoy stepeni kandidata istoricheskikh nauk. Moskva.

- 1994 Mezhdru kamnem i bronzoy. Nizhneye Podonye v V-II tys. do n.e. *Donskiye drevnosti* 3:8-129. Azov.

Kiyashko V.Y., A.V. Kiyashko

- 1992 K voprosu o svyazyakh plemen Podonya-Priazovya i Kavkaza v bronzovom veke. In: *Istoricheskaya geografia Dona i Severnogo Kavkaza*, 3-8. Rostov.

Kokowski A., W. Koman

- 1984 Badania ratownicze na terenie gmin Hrubieszów i Horodło w woj. zamojskim. In: *Sprawozdania z badań terenowych Archeologicznego Ośrodka Badawczo-Konserwatorskiego w Lublinie w 1984r.*, 19. Lublin.

- 1985 Świerszczów, gm. Hrubieszów, woj. zamojskie, stanowisko 27. *Informator Archeologiczny*. Badania 1984, 38. Warszawa.

Kokowski A., J. Ścibior

- 1990 Bemerkungen zur regionalen Gliederung der Kugelamphorenkultur in Polen. *Acta Praehistorica et Archaeologica* 22: 37-55.

Kossinna G.

- 1910 Der Ursprung der Urfinnen und der Urindogermanen und ihre Ausbreitung nach Osten. *Mannus* 2: 59-108.

Kostrzewski J.

- 1948 Od mezolitu do okresu wędrówek ludów. In: *Prehistoria ziem polskich* (ed. 1939-1948), 118-359. Kraków.

Kośko A.

- 1979 *Rozwój kulturowy społeczeństw Kujaw w okresach schyłkowego neolitu i wczesnej epoki brązu*. Poznań.

- 1981 *Udział południowo-wschodnioeuropejskich wzorców kulturowych w rozwoju niżowych społeczeństw kultury pucharów lejkowatych*. Poznań.

- 1985 Influences of the "pre-Yamnaya" ("pre-pitgrave") communities from the Black Sea steppe area in western European cultures. In: *L'énéolithique et le début de l'âge de bronze dans certain régions de l'Europe*, 57-72. Wrocław-Warszawa-Kraków-Gdańsk-Łódź.

- 1990 The Migration of Steppe and Forest-steppe Communities into Central Europe. *JIES* 18(3-4): 309-329.
- 1991 The Vistula-Oder basins and the North Pontic region. *JIES* 19(3-4):235-257.
- Kovaleva I.F.
- 1978 Pogrebeniya zhivotilovskogo tipa v Prisamarye. In: *Kurganniye drevnosti stepnogo Podneprovya II-I tys. do n.e.*, 2:45-55. Dnepropetrovsk.
- 1991 Pogrebeniya s maykopskim inventarem v Levoberezhzyi Dnepra (k vydele niyu zhivotilovskogo kulturnogo tipa). In: *Problemy arkheologii Podneprovya*, 69-88. Dnepropetrovsk.
- Kovalyukh N., M. Videiko, V. Skripkin
- 1995 Chronology of the cemeteries of the Sofievka type: archaeological and isotopic one. In: *Cemeteries of the Sofievka type: 2950-2750 BC*, BPS 3: 135-140.
- Kowalczyk J.
- 1968 Dwa zespoły neolityczne datowane radiowęglem. *Wiadomości Archeologiczne* 33: 372.
- Kowalski A.
- 1988 Mit w obrzędzie pogrzebowym. Próby etnograficznej analizy materiału archeologicznego. *Lud* 72: 113-126.
- Kozłowski L.
- 1921 Groby megalityczne na wschód od Odry. *Prace i Materiały Antropologiczno-Archeologiczne i Etnograficzne* 2.
- 1924 *Młodsza epoka kamienna w Polsce*, Lwów.
- 1939 *Zarys pradziejów Polski południowo-wschodniej*, Lwów.
- Kruk J.
- 1980 *Gospodarka w Polsce południowo-wschodniej w V-III tysiącleciu p.n.e.* Wrocław-Warszawa-Kraków-Gdańsk.
- 1993 Rolnictwo pierwotne jako czynnik kształtowania krajobrazu. *Sprawozdania Archeologiczne* 43: 301-308.
- Kukawka S., J. Sosnowska
- 1994 Z badań nad kulturą amfor kulistych na ziemi chełmińskiej. In: *Neolit i początki epoki brązu na ziemi chełmińskiej*, 199-204. Grudziądz.
- Kukhareno Y.V.
- 1969 *Arkheologiya Polshy*. Moskva.
- Levickiy I.F.
- 1929 Pamyatki megalitichnoy kultury na Volini. *Antropologija* 2: 192-222.
- 1930 Domovina kinca neolitichnoy dobi na poberezhzy serednoy techi r. Sluchi (c. Kolodyazhnoye na Volini). *Zapiski vseukraïnskogo arkheologichnogo komitetu* 1: 159-178.

Loze I.

- 1988 *Poseleniya kamennogo veka Lubanskoj Niziny. Mezolit, ranniy i sredniy neolit.* Riga.

Machnik J.

- 1978 Wczesny okres epoki brązu. In: *Prahistoria ziem polskich. III. Wczesna epoka brązu*, 9-136. Wrocław-Warszawa-Kraków-Gdańsk.
- 1979a Krąg kulturowy ceramiki sznurowej. In: *Prahistoria ziem polskich. II. Neolit*, 337-411. Wrocław-Warszawa-Kraków-Gdańsk.
- 1979b Ze studiów nad kulturą ceramiki sznurowej w dorzeczu górnego Dniestru. *AAC* 19: 51-71.
- 1987 *Kultury z przelomu eneolitu i epoki brązu w strefie karpackiej.* Wrocław-Warszawa-Kraków-Gdańsk-Łódź.

Maksimenko V.E.

- 1973 Noviye materialy po epokhe ranney bronzы na Nizhnem Donu. *SA* 1: 24-27.

Maleyev Y.M.

- 1971 Megalitichni grobnitsy na Ternopilshchini. *Arkheologiya* 2: 53-67.
- 1980 Vostochniye rubiezhy rasprostraneniya kultury sharovidnykh amfor. In: *Problemy eneolita stepnoy i lesostepnoy polosy Vostochnoy Evropy. Tezisy dokladov*, 30-31. Orenburg.
- 1986 Pokhovannya kulturi kulyastikh amfor na Khmielnichchini. *Visnik Kiiivskogo Universitetu. Istorichni Nauki* 28:98-103.

Maleyev Y.M., V.I. Yakubovskiy

- 1974 Raskopki grobnitsy kultury sharovidnykh amfor na Yuzhnom Buge. *AO* 1973 goda, 305.

Mallory J.P.

- 1991 *In Search of the Indo-Europeans. Language, Archaeology and Myth.* London.

Malyukevich A.E., V.G. Petrenko

- 1993 Usatovskiy kompleks s figurnymi pronizyami iz kurgana v nizovyakh Dnestra. In: *Drevneye Prichernomorye*, 25-30. Odessa.

Manzura I.

- 1990a O rasprostranienii gordineshtskikh kulturnykh elementov v Severnom Prichernomorye. In: *Arkheologicheskiye issledovaniya molodykh uchenykh Moldavii*, 25-39. Kishinev.
- 1990b *Perehodniy period ot eneolita k epokhe bronzы v Nizhnem Podniestrovye i Popruye.* Avtoreferat dissertatsii na soiskaniye uchenoy stepeni kandidata istoricheskikh nauk. Kishinev.
- 1992 Stepniye vostochnoevropeyskiye obshchnosti eneolitaranney bronzы v khronologicheskoy sisteme Balkano-Dunayskikh kultur. In: *Materialy i issledovaniya po arkheologii i etnografii Moldovy*, 87-101. Kishinev.
- 1993 The east-west interaction in the mirror of the eneolithic and early bronze cultures in the Northwest Pontic. *Revista Arheologica* 1: 23-53.

- 1994 Cultural groups from the steppes of Eastern Europe in the Eneolithic period and Early Bronze Age. *Oxford Journal of Archaeology* 13(3): 265-277.
- Manzura I., E. Klochko, E. Savva  
1992 *Kamenskiye kurgany*. Kishinev.
- Manzura I., E. Savva, L. Bogataya  
1995 East-West Interactions in the Eneolithic and Bronze Age Cultures of the North-West Pontic Region. *JIES* 23(1-2): 1-51.
- Mazurowski R.F.  
1983 Bursztyn w epoce kamienia na ziemiach polskich. *Materiały Starożytne i Wczesnośredniowieczne* 5: 7-130.
- Miclea I., R. Florescu  
1980 *Preistoria Daciei*. Bucuresti.
- Miklayev A.M.  
1992 *Kamenniy-zhelezniy vek v mezhdureche Zapadnoy Dviny i Lovati*. Avtoreferat dissertatsii na soiskaniye uchenoy stepeni doktora istoricheskikh nauk. Sankt Petersburg.
- Movsha T.G.  
1972 Periodizatsiya i khronologiya serednogo ta piznogo Tripilla. *Arkheologiya* 5: 3-24.  
1984 Khronologiya Tripolya-Cucuteni i stepnyye kultury epokhi rannego metalla v yeye sisteme. In: *Problemy arkheologii Podnieprovya*, 60-83. Dnepropetrovsk.  
1985a Pozdnyy etap tripolskoy kultury. In: *Arkheologiya Ukrainskoy SSR*, vol. 1, 223-263. Kiev.  
1985b Vzaemovidnosyny Tripilla-Kukuteni s sinkhronnymi kulturami Tsentralnoy Evropy. *Arkheologiya* 51: 22-31.  
1993 Vzaemovidnosyny stepovykh i zemlerobskikh kultur v epokhu eneolitara-ranniego bronzovogo viku. *Arkheologiya* 3: 36-51.
- Nagel E.  
1985 *Die Erscheinungen der Kugelamphorenkultur im Norden der DDR*. Berlin.
- Nechytailo A.L.  
1991 *Svyazi naseleniya stepnoy Ukrainy i Severnogo Kavkaza v epokhu bronzy*. Kiev.
- Neustupny E.  
1966 Kugelamphorenkultur. In: J.Filip (Ed.) *Enzyklopädisches Handbuch zur Ur- und Frühgeschichte Europas*, Band 1, 652-653. Praga.
- Nikolayeva N.  
1981 Periodizatsiya kubano-terskoy kultury. Istoricheskiye sudby KTK v katakombnyu epokhu. In: *Katakombniye kultury Severnogo Kavkaza*, 77-100. Ordzhonikidze.

Nikolayeva N., V. Safronov

- 1974 Proiskhozhdeniye dolmennoy kultury Severo-Zapadnogo Kaukaza. In: *Voprosy okhrany, klassifikatsii i ispolzovaniya arkheologicheskikh pamyatnikov*, 174-198. Moskva.

Nosek S.

- 1955 Kultura amfor kulistych na Lubelszczyźnie. *Annales UMCS Sectio F* (1954-1955) 5:55-158.  
1967 *Kultura amfor kulistych w Polsce*. Wrocław-Warszawa-Kraków.

Optołowicz J., Z. Ślusarski

- 1962 *Muzeum w Krasnymstawie. Archeologia, historia, kultura ludowa (katalog)*. Lublin.

Passek T.S.

- 1945 Selishcha epokhi bronzy v rayone Kaneva. *Kratkiye Soobshcheniya Instituta Istorii Materialnoy Kultury* 25:14-28. Kiev.  
1949 *Periodizatsiya tripolskikh poseleniy*. MIA 10.

Peleshchysyn M.A.

- 1976 Raskopki na Volini. *AO 1975 goda*, 376. Moskva.

Petrenko V.G.

- 1989 Pamyatniki eneolita i povorot epokhi k bronzovomu veku v Severno-Zapadnom Prichernomorje. In: *Istoriya i arkheologiya Nizhnego Podunavya*, 18-19. Reni.

Popandopulo Z.H.

- 1992 Pervomayskiy kurgannyj mogilnik u s. Primorskoye. *Drevnosti stepnogo Prichernomorja i Kryma* 3: 82-98.

Popova T.

- 1955 *Katakombnaya kultura*. Moskva.

Prinke D., M. Szmyt

- 1996 Ze studiów nad problematyką regionalizacji kulturowej w późnym neolicie na Kujawach. In: A. Koško (Ed.) *Z badań nad genezą regionalizmu kulturowego społeczeństw Kujaw*, 39-60. Poznań-Kruszwica-Inowrocław.

Rassamakin Y.Y.

- 1986 Eneolitieskiye pogrebeniya r. Molochnoy i ikh otnositelnaya khronologiya. In: *Khozyaystvo i kultura doklasovykh i ranneklasovykh obshchestv*, 121-122. Moskva.  
1987a Eneolitieskiye pograbeniya basseyna r. Molochnoy. In: *Drevneyshiy skotovody stepy yuga Ukrainy*, 31-43. Kiev.  
1987b K probleme izucheniya eneolitieskikh podkurgannykh pograbeniy. In: *Aktualniye problemy istoriko-arkheologicheskikh issledovaniy*, 138-139. Kiev.  
1988 Otnositelnaya khronologiya pozdneeneolitieskikh pogrebeniy basseyna r. Molochnoy. In: *Noviye pamyatniki yamnoy kultury stepnoy zony Ukrainy*, 14-27. Kiev.

- 1991 O sootnoshenii stepnykh i novosvobodnenskiikh pamyatnikov. In: *Maykopskiy fenomen v drevney istorii Kavkaza i Vostochnoy Evropy*, 52-55. Leningrad.
- 1993 Eneolit stepnogo Prichernomor'ya i Priazov'ya (po pogrebalnym pamyatnikam). In: *The Fourth Millennium B.C.*, 5-28. Sofia.
- 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: *Nomadism and pastoralism in the circle of Baltic-Pontic early agrarian cultures: 5000–1650 BC*, BPS 2: 29-70.
- 1996 Pozdneeneoliticheskiye komplekсы na Ingultse v svete novykh issledovaniy (in press).
- Rassamakin Y.Y., A. Kubyshev
- 1990 Ob odnoy gruppe pozdneeneoliticheskikh pogrebeniy v Priazov'ye s elementami tripolskoy kultury. In: *Rannezemledielcheskiye poseleniya-giganty tripolskoy kultury na Ukraine*, 72. Talyanki-Veseliy Kut-Majdanetskoye.
- Renfrew C.
- 1987 *Archaeology and Language. The Puzzle of Indo-European Origins*. London.
- Rezepkin A.D.
- 1987 K interpretatsii rospisi iz grobnitsy maykopskoy kultury bliz stanitsy Novosvobodnaya. *KSI* 192: 26-33.
- 1989 *Severo-Zapadnyy Kavkaz v epokhu ranney bronzy (po materialam pogrebeniy novosvobodnenskogo tipa)*. Avtoreferat dissertatsii na soiskaniye uchenoy stepeni kandidata istoricheskikh nauk. Leningrad.
- 1991 Kurgan 31 mogilnika "Klady". Problemy genezisa i khronologii maykopskoy kultury. In: *Drevniye kultury Prikubanya*, 167-197. Leningrad.
- Rimantiené R.
- 1992a The Neolithic of the Eastern Baltic, *Journal of World Prehistory* 6(1): 97-143.
- 1992b Neolithic hunter-gatherers at Šventoji in Lithuania. *Antiquity* 66: 367-376.
- Rimantiené R., G. Česnys
- 1990 The late Globular Amphora Culture and its Creators in the East Baltic Area from Archaeological and Antropological Points of View. *JIES* 18(3-4): 339-358.
- Rumjancev A.N.
- 1974 Geneza kultury środkowodnieprzańskiey i jej związki ze strefą karpacką. *AAC* 14: 57-67.
- Safronov V.A.
- 1989 *Indoeuropeyskiye prarodiny*. Gorkiy.
- Serdyukova I.L.
- 1989 K voprosu ob izmenenii granits rasseleniya katakombnykh plemen. In: *Problemy istorii ta arkheologii davnego naseleण्या Ukrainskoy RSR*, 206-207. Odessa.

- 1994 Plemena katakombnoy kultury Nadporozhya i Lesostepnogo Podneproya (manuscript). Kiev.
- Serova H.L., E.V. Yarovoy  
1987 *Grigoryopolskiye kurgany*. Kishinev.
- Shaposhnikova O.  
1971 O kulturnoy prinadlezhnosti poseleniy epokhi ranney bronzy Stepnogo Pridneproya. *Materialy po archeologii Severnogo Prichernomor'ya* 7: 28-42. Odessa.
- Shcheglova V.V., Cherniavski M.M.  
1976 Fauna iz mogilnikov kultury sharovidnykh amfor u pos. Krasnoselski Volkovytskogo rayona. In: *Doklady AN BSSR* 20(7): 627-629.
- Shchepinsky A.A.  
1985 Kemi-obinskaya kultura. In: *Arkheologiya Ukrainskoy SSR*, vol.1, 331-336. Kiev.
- Shilov I.  
1988 "Grot byka" po materialam drevneyshikh kurganov. In: *Noviye pamyatniki yamnoy kultury stepnoy zony Ukrainy*, 42-59. Kiev.
- Shmagliy N.M.  
1966 Grodsko-volynskiy variant piznotripil'skoy kultury. *Arkheologiya* 20: 15-37.
- Shmidt E.A.  
1992a Mogilnik kultury kulyastykh amfor poblizu Smolenska u verkhivnykh Dni-pra. *Arkheologiya* 2: 120-124.  
1992b Pogrebalniy kompleks kultury sharovidnykh amfor v verkhovnykh Dnepra. *Rossiyskaya Arkheologiya* 4: 156-162.
- Skibiński S.  
1958 Znalezisko zabytków kultury amfor kulistych w Stadarni, pow. Chełm. *Wiadomości Archeologiczne* 24(4): 384-385.
- Sobczuk E.  
1994 Najciekawsze odkrycia archeologiczne z Krasnegostawu i okolic. In: *Zapiski Krasnostawskie*, 9-18. Lublin.
- Stuiver M., P.J. Reimer  
1993 Radiocarbon Calibration Program, ver. 3.0.3, University of Washington, Quaternary Isotope Lab. *Radiocarbon* 35: 215-230.
- Subbotin L.V.  
1982 Dva kurgana epokhi bronzy v Bugo-Dnestrovskom mezhdurechie. In: *Arkheologicheskiye pamyatniki Severo-Zapadnogo Prichernomor'ya*, 100-110. Kiev.  
1988 Megaliticheskoye pogrebeniye u s. Tatarbunary. In: *Noviye pamyatniki yamnoy kultury stepnoy zony Ukrainy*, 124-130. Kiev.
- Sulimirski T.  
1959 *Polska przedhistoryczna*, t. 2, (1957-1959), Londyn.

- 1968 *Corded Ware and Globular Amphorae North-East of the Carpathians*, Londyn.
- 1970 *Prehistoric Russia*. An outline, Londyn.
- Sveshnikov I.K.
- 1957 *Megalitychni pokhovannya na Zakhidnomu Podilli*. Lviv.
- 1971 Kultura kulyastykh amfor. In: *Arkheologiya Ukrainskoy RSR*, vol. 1, 240-250. Kiev.
- 1973 Noviye pokhovannya kultury kulyastykh amfor u Rovenskiy oblasti. *Arkheologiya* 11: 69-72.
- 1974 *Istoriya naselennya Peredkarpattya, Podilla i Volini v kinci III — na pochatku II tis. do n.e.* Kiev.
- 1983 *Kultura sharovidnykh amfor*. Svod arkheologicheskikh istochnikov V1-27. Moskva.
- 1985a Kultura sharovidnykh amfor. In: *Arkheologiya Ukrainskoy SSR*, vol. 1, 280-291. Kiev.
- 1985b Gorodoksko-zdolbitskaya kultura na Volini. In: *Arkheologiya Ukrainskoy SSR*, vol. 1, 381-384. Kiev.
- 1990 Kultura sharovidnykh amfor. In: *Arkheologiya Prikarpatya, Volini i Zakarpattya (eneolit, bronz a i ranneye zhelezo)*, 43-49. Kiev.
- Sveshnikov I.K., Nikolchenko Y.M.
- 1982 *Dovidnyk z arkheologii*. Rovenska oblast. Kiev.
- Szmyt M.
- 1996 *Spolecznosci kultury amfor kulistych na Kujawach*, Poznań.
- Sztandar Ludu
- 1961 Ciekawe odkrycie archeologiczne w Łopienniku Dolnym. *Sztandar Ludu* (21.II.1961) nr 44 (5284). Lublin.
- Ścibior J.
- 1986 [rec.] Igor K. Svešnikov, Kultura šarovidnych amfor. *Sprawozdania Archeologiczne* 38: 348-365.
- 1991 Kultura amfor kulistych w środkowowschodniej Polsce. Zarys problematyki. In: J.Gurba (Ed.) *Schylek neolitu i wczesna epoka brązu w Polsce środkowowschodniej*, 47-65. Lublin.
- 1993 Die Trichterbecherkultur und die Tripolje-kultur auf der Wolynien-Hohebene. In: *Actes du XIIIe Congrès International des Sciences Préhistoriques et Protohistoriques*, 1-7 Septembre 1991, vol.2, 522-528. Bratislava.
- Ścibior J., A. Kokowski, W. Koman
- 1991 Zespoły grobowe kultury amfor kulistych z zachodniej części Wyżyny Wołyńskiej. *Sprawozdania Archeologiczne* 43: 79-108.
- Ścibior J., J.M.Ścibior
- 1990 Sandomierz 78 — wielokulturowe stanowisko z przełomu neolitu i epoki brązu. Badania ratownicze w 1984 roku. *Sprawozdania Archeologiczne* 42: 157-201.

Świeżyński K.

- 1966 Szczałki kostne z grobów zwierzęcych kultury amfor kulistych na Kujawach. In: Wiślański T., *Kultura amfor kulistych w Polsce północno-zachodniej*, 268-278. Wrocław-Warszawa-Kraków.

Tallgren A.

- 1926 La Pontide prescythique apres l'introduction des metaux. *Eurasia Septentrionalis Antiqua* 7: 5-246.

Telegin D.Y.

- 1971 Eneolitychni stely i pamyatky nizhniomikhaylovskogo tipu. *Arkheologiya* 4: 32-54.  
1977 Ob absolutnom vozraste yamnoy kultury i nekotoriye voprosy khronologii eneolita yuga Ukrainy. *SA* 2: 5-19.

Terskiy S.V.

- 1993 Novi pamyatky pivnichno-zakhidnogo porubizh Trypils'koy kultury. In: *Trypilska kultura Ukrainy. Tezy dopovidey i povidomlen mizhnarodnoy konferentsii*, 64-66. Lviv.

Terskiy S., V. Terskiy

- 1994 Litopysna Peresopnitsa abo pry zabute misto nad Stublou. *Rodovid* 7: 47-53.

Toshchev G.N.

- 1991 Zapadniy areal pamyatnikov katakombnoy kultury. In: *Katakombnyye kultury Severnogo Prichernomor'ya*, 85-100. Kiev.

Weninger B.

- 1986 High-Precision Calibration of Archaeological Radiocarbon Dates. *Acta Interdisciplinaria Archaeologica* 4: 11-53. Nitra.

Wieliczko M.

- 1961 Łopiennik Dolny Kolonia, pow. Krasnystaw. *Z Otchłani Wieków* 27(3): 232.

Wiślański T.

- 1966 *Kultura amfor kulistych w Polsce północno-zachodniej*. Wrocław-Warszawa-Kraków.  
1970 The Globular Amphora Culture. In: *The Neolithic in Poland*, 179-231. Wrocław-Warszawa-Kraków.  
1979 Dalszy rozwój ludów neolitycznych. Plemiona kultury amfor kulistych. In: *Prahistoria ziem polskich, II. Neolit*, 261-299. Wrocław-Warszawa-Kraków-Gdańsk.

Yarovoy E.V.

- 1979 Nakhodka sharovidnykh amfor v Moldavii. In: *Problemy epokhi bronzy Yuga Vostochnoy Evropy*, 35. Donetsk.  
1981 Pamyatniki yamnoy kultury Pruto-Dnestrovskogo mezhdurech'ya. In: *Aktualniye problemy arkheologicheskikh issledovaniy v Ukrain'skoy SSR*, 33-34. Kiev.  
1985 *Drevneyshiy skotovodcheskiy plemena Yugo-Zapada SSSR*. Kishinev.  
1990 *Kurgany eneolita — epochi bronzy Nizhnego Podnestrovyia*. Kishinev.

Yelagina N., V.G. Petrenko

1968 Otchet ob arkheologicheskikh raskopkach, proizvedennykh Inguletskoy stepnoy ekspeditsey letom 1968 goda. (Nauchniy arkhiv Instituta Arkheologii Akademii Nauk Ukrainy, N 1968/54). Kiev.

Zaginailo A.I., I.T. Chernyakov, V.G. Petrenko

1987 Karolino-Bugazskiy mogilnik. In: *Noviye issledovaniya po arkheologii Severnogo Prichernomorya*, 99-108. Kiev.

Zakharuk Y.N.

1962 Voprosy khronologii kultur eneolita i ranney bronzy Prikarpatya i Volini. *KSI A AN USSR* 12: 48-52.

1971 Tripilska kultura. In: *Arkheologiya Ukrainskoy RSR*, vol. 1, 177-179. Kiev.

Zbenovich V.I.

1972 Khronologiya piznogo Tripilla. *Arkheologiya* 7: 3-25.

1976 Pozdneye Tripolye i yego svyaz s kulturami Prikarpatya i Malopolshi. *AAC* 16: 21-58.

1987 Mesto tripolskoy kultury v eneolite Prichernomorya. In: *Kavkaz v sistemie paleometallicheskikh kultur Evrazii*, 109-119. Tbilisi.

Zhivopisnaya Rossiya

1882 Zhivopisnaya Rossiya. Litovskoye i belorusskoye Polesye. Sankt-Peterburg-Moskva.

## LIST OF AUTHORS

Mikhail M. Charniauski  
Institute of History  
Academy of Sciences of Belarus  
Minsk 220072  
F. Skaryna Str. 1  
Belarus

Stanisław Gołub  
22-100 Chełm  
Powstańców Warszawy Str. 3/26  
Poland

Sławomir Kadrow  
Institute of Archaeology and Ethnology  
Polish Academy of Sciences  
31-016 Kraków  
Sławkowska Str. 19  
Poland

Wiesław Koman  
State Service of Preservation of Monuments  
22-400 Zamość  
Staszic Str. 29  
Poland

Wanda Kozak-Zychman  
Chair of Archaeology  
Maria Curie-Skłodowska University  
20-031 Lublin  
M. Curie-Skłodowska Square 4  
Poland

Mykola Kryvaltsevich  
Institute of History  
Academy of Sciences of Belarus  
Minsk 220072  
F. Skaryna Str. 1  
Belarus

Yuriy Maleyev  
Chair of Archaeology  
State University  
252033 Kiiv  
Vladimirovskaya Str. 64  
Ukraine

Yuriy Y. Rassamakin  
Institute of Archaeology  
Ukrainian Academy of Sciences  
252014 Kiiv  
Vydubitskaya Str. 40  
Ukraine

Irina L. Serdyukova  
Institute of Archaeology  
Ukrainian Academy of Sciences  
252014 Kiiv  
Vydubitskaya Str. 40  
Ukraine

Svyatoslav V. Shelomentsev-Terskiy  
Museum of History  
290038 Lviv-8  
Rynok 6  
Ukraine

Evgeniy A. Shmidt  
214013 Smolensk  
Kirova 15/19  
Russia

Marzena Szmyt  
Eastern Institute  
Adam Mickiewicz University  
61-734 Poznań  
Nowowiejski Str. 55  
Poland

Józef Ścibior  
District Museum – Castle  
22-600 Sandomierz  
Poland

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

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

The publication is carried out within the research project No 1 P108 067 04 financed in the years 1993-1995 by Committee for Scientific Research and supplied with funds of Ministry of National Education.

ISBN 83-86094-03-6

ISSN 1231-0344