## BRONZE HOARDS OF WEAPONS AND JEWELRY FROM THE MIDDLE DANUBE TO THE LOWER DANUBE IN LATE BRONZE AGE AND EARLY IRON AGE

#### **BRATU Olimpia**

**Abstract.** The study covers the associated hoards of weaponry and jewelry the period Br D-Ha B3-C discovered in the Danube basin to the Middle and Lower Danube. Based on statistical and combinatorial analysis of items of the deposits consist of two functional categories, such as weapons associated with jewelers, four combinatorial types were distinguished for Br D, three for Ha A and three for Ha  $B_{1-2}$ . Associations items of the that hoards types have been deployed from this analysis are the expression of patterns of hoarding differ depending on the period of temporary lodging, and after the area they occupy.

Keywords: Hoards, weapons, jewelry, late Bronze Age, early Iron Age.

The study was applied to the Br D to Ha B3-C bronze hoards located in a large space in Central and Eastern Europe from the Middle Danube to the Lower Danube (Slovakia, Hungary, Ukraine, Romania, former Yugoslavia, Bulgaria<sup>1</sup>). The analysis was made on the composition of deposits, which, based on functional groups filing has generated several categories of hoard with different behavior depending on the time hoarding and cultural space in which it was made. A significant portion of the hoards is composed of two functional categories, notably associations weapons and jewelry, which we present below.

Hoards with combinations of two functional categories, type weapons and ornaments have Br D center weight after falling into a continuous decline with a slight recovery in Ha B3-C (Fig. 1). Such deposits occur in Br D northern space studied, with two mergers - one in Transcarpathian Ukraine, northeastern Hungary, with some infiltration in Maramures and another west of the Tisza between Hernadi and Sajo (map 1). Since the range of HA deposits weapon jewelry dissipates. They continue to be a specific area usually hoard in the north where, although their presence is much reduced, the two areas of concentration are maintained. To the west of the Tisza state that extends to the west of Sajo and to the east of the Tisza observe a small cluster of such discoveries in Maramures, in an area previously without such deposits (map 2). Compared with the great explosion of HA deposits, a phenomenon which reaches its development is overwhelmingly a southern areas of the workspace, we find that the habit of association ornaments and weapons make only appears sporadically in this part, perhaps with a slight concentration in Banat. All these lead us to suggest that the hoarding of weapons in combination with jewelry is characteristic of the area upper basin of the Tisza. In Ha B1-2 can hardly talk about this habit, he seems to have lost its meaning, at least for its area of occurrence and manifestation, the upper basin of the Tisza, where now we do not know of any discoveries. Association weaponry and jewelry are kept in this area since investigated the outskirts, to western and central Slovakia, on the Dalmatian coast in Moldavia over the Prut and partly in Banat (map 3).

To better understand the association hoards weaponry and jewelry custom, we analyzed the composition of deposits, i.e. we tried to see if there are rules on the hoarding of certain weapons or ornaments. Thus, we applied statistical and combinatorial approach to these discoveries for each period of time and got some combinatorial types that have distinct characteristics, but most say in the distribution area of the deposits wearable weapons, which entitles us to say that we were able to document the different customs in time and space to the association type hoards weapons and jewelry.

Hoards that stretch north Br D space is studied four combinatorial types well-defined chronological and typical (Fig. 2). Type 1 is characterized by combinatory devoid of bracelets that are associated with the disc axes, socketed axes and spear heads. For the weapon used in the formation of hoards falling within this combinatory type that never appears spearheads with disc axes. Noteworthy is that in addition to the main association, and rings can be found here, rarely present in other types distinguished. The second type associated combinatory bracelets, disc axes or socketed axes. We speak of two groups here, a bracelet-disc axes combinations type and other combinations bracelets-socketed axes. Combinatory Type 3 is the largest and is growing with it and the types of weapons and ornaments which are in combination. It combines parts of the jewelry bracelets plus protective arm rings now, but make their presence felt and needles, and from category weapons disc axes, socketed axes and spear heads. Also, we could probably talk for two subgroups - one with the protective arm rings to which they are associated pins or pendants, another without. We note the presence of fibulae, belt. The fourth type is characterized by replacing the combination bracelet-socketed axe with protective arm ring- sword. In those ornaments are added, pendants and, especially, spiral bracelets and weapons category also appear in two-arm axes.

13

<sup>&</sup>lt;sup>1</sup> The study tackles 1351 hoards and over 300 isolated finds (swords and disc axes). We have taken into account only hoards with definite make-up and dating in order to allow as few probability factors in our analysis as possible. It is also worth mentioning that we have used the chronology dating submitted by researchers who published the findings.

# Evoluția depozitelor de arme asociate cu piese de port

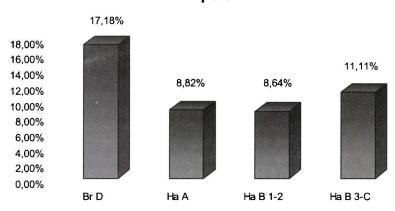


Fig. 1. Evolution hoards weapons associated with jewelry.

In these types combinatorial space situation is quite clear (map 1). Combinatorial types 1 and 2 are found in deposits east of the Tisza in Transcarpathian Ukraine, Hungary and northeastern Maramures, while type 4 only north west of the Tisza in Hungary and south-western Slovakia. Combinatory Type 3, the largest seems to be some sort of link between those whose distribution area is excluded, the trend to group general area on the outskirts of the spread of such hoards.

Hoarding associated jewelry with weapons HA A continues with new features, dispersal in space is one of them. It nonetheless remains a habit of filing space specifically for northern research. The new metal centers appear once this period is behaving more like a loan in the same region. Statistical and combinatorial analysis hoards of weapons and ornaments of HA results in three clearly distinguishable combinatorial types. Main association of hoards of this period is socketed axes-bracelet. It occurs in all types obtained, which distinguishes them as the rest of the items that are added or not the combination of the above. Type 1 is characterized by the main association bracelet with socketed axes, plus pendants, buttons (only found here), spiral bracelets and fibulae jewelry category and the category of weapons, arrowheads, defensive weapons (only in this type), and daggers. Type 2 is the main exponent of hoarding association with socketed axe-bracelets. Last combinatory type, type 3, is aimed mainly associated socketed axes with bracelet, sword and spearhead, rarely all at once. Here is preserved axes disc or two arms. Rings, protective arm rings, especially necklaces and rings plus combinations that define this type of association (Fig. 3).

Spread the types defined in space allows us to conclude that the combinatory type 3 is characteristic of such deposits in northern study area, especially west of the Tisza, even if it is intertwined with the discovery of type 1. Combinatory findings that type 1 appear to be preferred especially to the south, while the small group represented by the findings of type 2 associated with the bracelets only socketed axes never meet west of the Tisza, they appear in the area east of river in Ukraine and Maramures (map 2).

The few finds of this type of Ha B1-2 can be divided as three parts associated with well-defined combinatorial. The first type is the main association socketed axe and sword (rarely together) with the bracelets. Also included are only found in this group items such as pendants, spiral bracelets and arrowheads. The second type is characterized by the combination of socketed axe and spearheads with bracelets and fibulae. In type 3 combinatory witnessing an important change that is not appearing the bracelets which are replaced with other ornaments, fibulae and pins. Besides these, few, occur only in type 1 and 3, never 2. Winged axes characterize only the association of type 3 (Fig. 4). In this context we note that the combinatory type 1 appears to mark the limits of such hoards in the period discussed, while type 2 and 3 were the center of this area was described by combinations of weapons jewelry at this time (map 3).

Clearly hoards functional combinations of two categories of weapon and jewelry type are characteristic patterns discussed tabling the northern area in the upper basin of the Tisza. This is the area where hoarding is concentrated representation of parts of individuality, the hoards of weapons, jewelry and the weapon and jewelry. In other words, the pattern of hoarding of bronzes in the upper basin of the Tisa aimed at representing individuality, male / warrior / ruling or female and use in expressing the intent of the categories analyzed hoards - hoards of weapons, jewelry hoards and associated hoards of weaponry and jewelry.

Besides clearly distinguished association of certain weapons and jewelry, have discussed bronze hoards and other elements leading to a better understanding of this phenomenon. We mean the integrity of the items made to their weight, but also the relationship with the environment in which the hoarding was made, and how the items were ordered / arranged when they arrived in the land.

Hoards with the association of two functional categories is characterized by the deposit of entire items, but mostly predominantly whole<sup>2</sup>. It is noted that Br D and Ha B1-2 parts are hoarding in significant percentages, integers, while in HA, even this type of association is marked by major age tend to fragment or to affect parts integrity - weapons destruction is characterized by the active part of the piece the jewelry more deformed or badly finished.

Relationship with the environment where hoards have been discovered is very important for understanding the hoarding of bronze. The fact that many bronzes from certain places - heights, water, wetlands, confluences, terraces - speaks of an intentional action can not be linked only with the scope of the cult of the sacred. Hoarding<sup>3</sup> involves numerous religious and historical knowledge, so for this particular area was not a ordinary, but places that have, by themselves, qualities - are wetland or implying that the environment was an area of waters and different destinations natural environments probably had religious significance.

If we refer only to the category of hoards discussed, we see that it is marked as a medium of choice for the hoarding of heights and wet environment. Regarding the relationship between the environment and during the parts have reached the ground, the hoard associated weapons with jewelry present interesting features. Thus, it is preferred Br D comparable proportions, both in the high deposit and wet deposition. The HA situation changes, for hoard in wet environment, while for Ha B1-2 note that these findings come from on high, never in a wetland.

Information about ordering parts from discovery suffers from poor documentation because most of the discoveries were made accidentally. From the few data we had available, we can say reserve that for the hoards of two functional categories in general and for the hoard associated weapons and jewelry, in particular, seems to have been the intention hoarding them in relation to a cliff and arranged in a certain way.

The study of bronze hoards in the research area has allowed us to note that, not all hoards evince the same characteristics, on the contrary, we can outline areas of specific practices, with a different time and space evolution. Moreover, certain items are found in some areas while they are absent in some others or, if they featured at some point in past, they disappear later on. All these elements noted in relation with bronze hoards in the area under study points to fact that hoards made up base on certain criteria related to the customs of one or another cultural area. These customs seem to be the outcome of some practices related to the cult area and, as recent considerations have it, they are perhaps religious manifestations of the late Bronze Age and beginning of the first Iron Age.

<sup>&</sup>lt;sup>2</sup> More than 50% integrity unaffected parts of fragmentation or deformation. Chr. Sommerfeld, Gerätegeld Siecheln. Studien zu monetären Struktur bronzezeitlicher Horte im nördlichen Mitteleuropa, Vorgesch. Forsch. 19, Berlin-New York, 1994, p. 32, distinguishes five methods of acting on objects, which result in their various stages - I complete objects over which does not preserve the original shape and they are whole, used, unused or scrap; II fragments materials whose splitting leads to a decrease in shape and can not reconstruct the whole partial pieces in order to obtain a weight, III fragments ideal - deliberate action that leads to uncontrolled destruction of objects whose original form can recover full of fragments to be protected from the profane or as part of a casting process; IV functional or ideal deformation resulting deformation without fragmentation changing the original form objects leads to complete, but the shape changed, no longer function as intended or not cancel functional value, where no functional fragments, V functional fragments which are not intended to destroy, but what brings change original forms stage object fragments changed form without function.

<sup>&</sup>lt;sup>3</sup> D.R. Frontijn, Sacrificial Landscapes, Cultural biographies of person, objects and natural places in the Bronze Age of the Southern Netherlands. 2300-600 B.C., 2002, p. 277.

Hoard	s	A	2A	SB	PA	P	D	Pn	ВТ	DW	BL	R	SH	J	D AX	SA	BR	AR	ТСР	Z	WA	TYPE
BEOGRAD-AUTOKOMANDA																	X			X	X	
SZECSENY V														X			X			X	X	1
ARDOV														X			X	X			X	1
TÂRŞOLŢ															Х	X	X			X		1
TISZABECS															Х		X		Χ			1
DRAGOMIREȘTI							-		_						Х	X	X		Χ			1
REBRIȘOARA II															Х	X	X		X			1
UZGOROD V																X	X	X				1
KOL'CINO													X				X	X				-
BEREGSURANY													X				X	X				PE
TIBAVA													X			X	X	X				TYPE
ZALUZ'E																X	X					
TISZALADANY																X	X					1
LIVADA II				_												X	X					1
IMSTICEVO																X	X					1
GHEJA																X	X					1
BOTPALAD										_						X	X					1
CSEGOLD	+			-											X	X	X					1
VELIKAJA															Х		Х		_			1
PALAD I																						
OLESNIK IV															X		X					1
NYIRBELTEK															Х		X					1
DOBROCINA															X		X					<b>_</b>
COMONIN II	1												_		X		X					E 11
CĂIANU MIC															X		X					YP
BREB															X		X					TIVPE
NERESNICA														X	Х	Х	Х					
SVALJAVA II													X			X	X					1
OROSIEVO													Х			Х	X					1
TISZASZENTMARTON									X				X			Х	X	X				1 !
IRSAVA													X		Х		X					1
HORNA STUBNA													X		Х		X					1
KISPALAD II														Х	Х							1
BELOVEZA														X	X				_	-		1
VOLOVEC					X										X	X	X	X				1
AGRIEŞ										X					Х		X					1
BELKI											X		Х			X	X					=
PENESZLEK									X				Х		Х	Х	X	-				<b>I</b>
KOPRIVNICA												X	X				X					K
MALAJA BEGAN' I												X			X							TIYPE III

COMONIN I					Х										X	X	X			$\top$	
SLAVKOVCE				<b>†</b>	X											X	X				 1
BANATSKI					Х											X	X				1
KARLOVAC																					
ARKA					X											X	X				1
PACIN I						X	Х	X						X		X	X	X			]
KONRADOVCE								X					X				X				
ERDOHORVATI								X					X				X				
SZECSENY III				X				X	X		X		X							X	
CSONGRAD I					X	X							X		X	X	X				
NYIREGYHAZA IV				X						Γ					X		X				
BEREGOVO III								X							X						
LOCHOVO		X							X		X		X	X	X		X				
KURITYAN					X	X		X	X	X		X		X		X	X				
FELSODOBSZA I					X	X	X	X	X	Ī	X	X	X	X	X		X	I			
PETERVASARA II					X	X	X						X			X	X				
KRIVA					X					X					X						
VILYVITANY					X		X			Ī			X				X				
GEBERJEN				X	X										X		X		L.		
VIS III					X		X	X					X			X					
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RESICA					X	X							X								1
FOIENI I							X	Х													1
SZOLNOK II	X					X	X									X	X				
CSEREPFALU					X			X										1			1
RIMAVSKA	X		X	X	X			X	X					X			X				1
SOBOTA I				ļ																	
CUDLOVO	X				X	X									X						
SZECSENY IV	X				X								X								
VEL'KY BLH		Х	Х	X	X										X						] ≥
FORRO	X			X	X	X															
ABAUJKER II		Х			X																TIYPE
KRALOVA LEHOTA	X	1	1		X	1					$\overline{}$	1 -		_				1	1		1 🚄

Fig. 2. Combinatorial type hoards Br D. S – sword, A – axe, 2 A – two arms axe, SB – spiral bracelet, PA – protective arm ring, P – pins, D – dagger, Pn – pendant, BT – buttons, DW – defensive weapons, BL – belt, R – ring, SH – spearhead, J – jewelry, DAX – disc axe, SA – socketed axe, BR – bracelet, AR – arm ring, N – necklace; WA – winged axe.

#### HOARDS ASSOCIATED WEAPONS AND JEWELLERY BR D (Map 1) ABAUJKER II 37. KRALOVA LEHOTA 1. 2. **AGRIES** 38. **KRIVA ARDOV** 39. KURITYÁN 3. 4. **ARDUD** 40. LIVADA II 5. ARKA 41. LOCHOVO 6. BANATSKI KARLOVAC 42. MALAJA BEGAN' I 7. **BELKI NERESNICA** 43. 8. **BELOVEZA** 44. NYIRBELTEK 9. **BEOGRAD-AUTOKOMANDA** 45. NYÍREGYHÁZA IV 10. **BEREGOVO III** 46. **OLESNIK IV** 11. **BEREGSURANY** 47. **OROSIEVO** BOTPALÁD PÁCIN I 12. 48. 13. **BREB** 49. PENÉSZLEK 14. CĂIANU MIC 50. PÉTERVÁSÁRA II 15. COMONIN I 51. REBRISOARA II 16. **COMONIN II** 52. RESICA 17. CSEGŐLD 53. RIMAVSKA SOBOTA I 18. **CSERÉPFALU** 54. **SLAVKOVCE** CSONGRÁD I 19. 55. **SVALJAVA II** 20. 56. SZÉCSÉNY III **CUDLOVO** SZÉCSÉNY IV 21. **DOBROCINA** 57. SZÉCSÉNY V 22. DRAGOMIRESTI 58. 23. DRAZICE 59. SZOLNOK II 24. ERDŐHORVÁTI **TÂRŞOLT** 60. 25. FELSŐDOBSZA I **TIBAVA** 61. 26. FOIENI I 62. **TISZABECS** 27. FORRÓ 63. TISZALADÁNY 28. GÉBERJÉN 64. TISZASZENTMÁRTON 29. **GHEJA** 65. UZGOROD V 30. HORNA STUBNA 66. VELIKAJA PALAD' 31. **IMSTICEVO** 67. VEL'KY BLH 32. **IRSAVA** 68. **VILYVITANY** 33. KISPALÁD II 69. VISS III 34. KOL'CINO 70. VOLOVEC 35. KONRADOVCE 71. ZALUZ'E 72. **ZATISNE** 36. **KOPRIVNICA**

HOARD	R	w	P	DA	WA	N	2A	AR	s	PA	SH	BR	SA	D	A	SB	FB	BL	J	АН	вт	P	DW	s	TYPE
ZALASZENTMIHALY					_																Х	х	X	X	
POTRETE					_																^		^		1
BODROGKOZ																				X		X		X	
HĂRĂU												X	X						X					X	
NEGYES						<u> </u>							X						L.		X				
AGGTELEK I								X		X							X			X	X				
HUMENNE									X				X						X			X			
DEBRECEN								X		Х		X	Х					X	Х		X	X			(
FANCSIKA I								^		^		_^						^	^		^	^			
EDELENY II												X	X	X								X			1
VISS I											X	X			Х							X			1
GORNJI MILANOVIC											X	X	X							Х					
FIZEŞ													X	-				X							1
BALASAGYARMAT								1	X			X	X							Х					1
TURT								Ì					X		X		X						_	$\vdash$	
TAMASFALVA			X								X	X	Х	Х		-			X		X	t		$\vdash$	1
SZENDROLAD II									1		<del> </del>	X	X	†				_	X					$\vdash$	1
OSOJ			1					<del>                                     </del>				X		X	X			· —							1
SVETI JANEZ					X	†					<b></b> -	<u> </u>	X	1	<u> </u>				X			<u> </u>		$\vdash$	1
MATIEVIC			1		<del>                                     </del>			<b>†</b>		-	<del>                                     </del>			<del>                                     </del>				<del>                                     </del>	1			<u> </u>		$\vdash$	1
KULSKO BRDO	-					X			X		X	X	X			X	X		X						ĺ
KRNJAK								†			X	X	X	<b>†</b>			X		<u> </u>					<del>                                     </del>	ĺ
KALINY I			<u> </u>			<b>†</b>	<u> </u>		X	<u> </u>	<del>                                     </del>	X			<b></b>		<del></del>	X						$\vdash$	
SOBUNAR			+			<u> </u>	<del>                                     </del>		<u> </u>		<del>                                     </del>			<del>                                     </del>	1							<u> </u>		$\vdash$	VPE
DEBELO BRDO								X					X		X									'	<u>}</u>
TEGLAS I												X	X												
SEREDNEE												X	X												ĺ
PODMONASTYR I												X	Х												] =
LUGOJ												X	X	1											
KAMENOVO			1									X	X						†					$\vdash$	TYPE
BÂRSANA												X	X												É
HETIN									X		X	X	X	X											
SAROSPATAK II									Х	X		Х				X						1			
CÂMPULUNG				<b></b>		$\vdash$				t —	T.,			1				١.,							
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NEGROVO I		T	1							<u> </u>	X	X	X		1		t —				1	1			
OLESNIK V				<u> </u>	X				<u> </u>			X	X	X				<u> </u>					t		╡
BUKKARANYOS I					<del></del>	1		<u> </u>	X	X	X	X	X	X											[E
GELENES I		†	<del>                                     </del>			t		X		<del>                                     </del>	<del>  ^ ^ </del>	X	X	<del> </del>		<b>†</b>	$\vdash$		<b>†</b>	-	<u> </u>			$\vdash$	TYPE
SZENDRO	-	<del>                                     </del>			<u> </u>	t	$\vdash$	X	<del>                                     </del>		$\frac{1}{x}$	<del>  ^•</del>	X	+	<del>                                     </del>	<del>                                     </del>		<del>                                     </del>	<u> </u>		<del>                                     </del>			$\vdash$	=

						1		Т	1	т —	T	T	T				I	ı		
TESANY III						X					X	X	X							
GLUBOKOE				X								X	X							
ZSUJITA									X		X	X								
LESKOVO						X			X			X	X							
HAJDUKOVO			X			Γ		X	X						X					
ZALKOD					]				X	X		X								
EDELENY FINKE			X					X	X	Х	X	X	X							
PETERVASARA I							Χ	X		X	X	X								
JOSZA						X			X	X		X								
ZVOLEN II								X	X											
RĂZBOIENI-CETATE			X		-			X			X	X								
TICVANIUL MARE					X	X	0			X		X								
ABAUJSZANTO II			X					X	X			X								
RĂSCRUCI		X		X								X	X							
COPOVKA	X				X			X		X		X								
SISAK III			X						X											
SZUHAFO			X						X											
RAGALY			X						X											
NIZNA	X	Х									X	X								

Fig. 3. Combinatorial type hoards Ha A. R - ring, W - weapons, P - pins, DA - disc axe, WA - winged axe, N - necklace, 2A - two arms axe, AR - armring, S - sword, PA - protective arm ring, SH - spear head, BR - bracelet, SA - socketed axe, D - dagger, A - axe, SB - spiral bracelet, FB - fibulae, BL - belt, J - jewelry, AH - arrowhead, BT - buttons, PN - pendant, DW - defensive weapons, S - spirals.

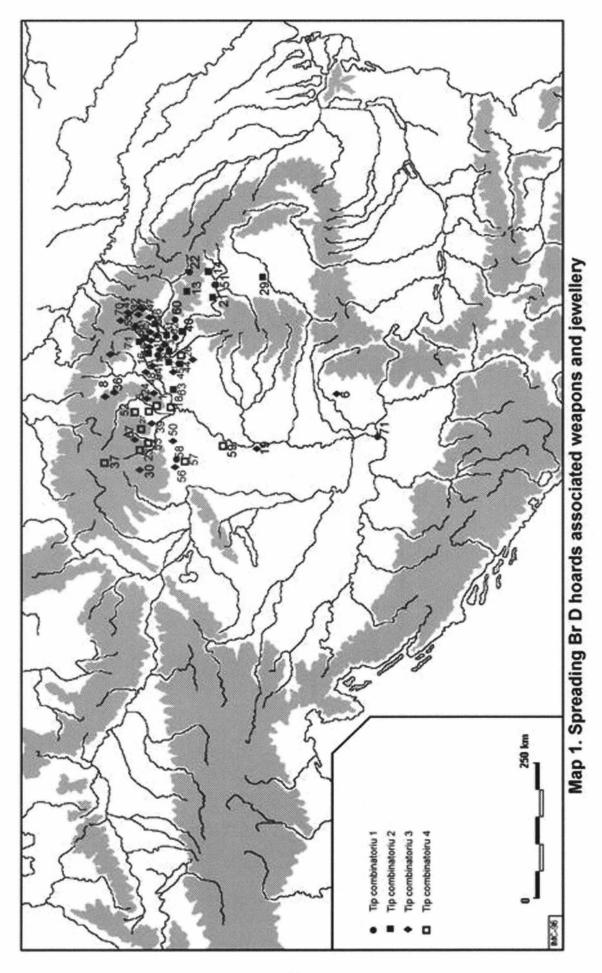
### HOARDS ASSOCIATED WEAPONS AND JEWELLERY Ha A (Map 2)

20

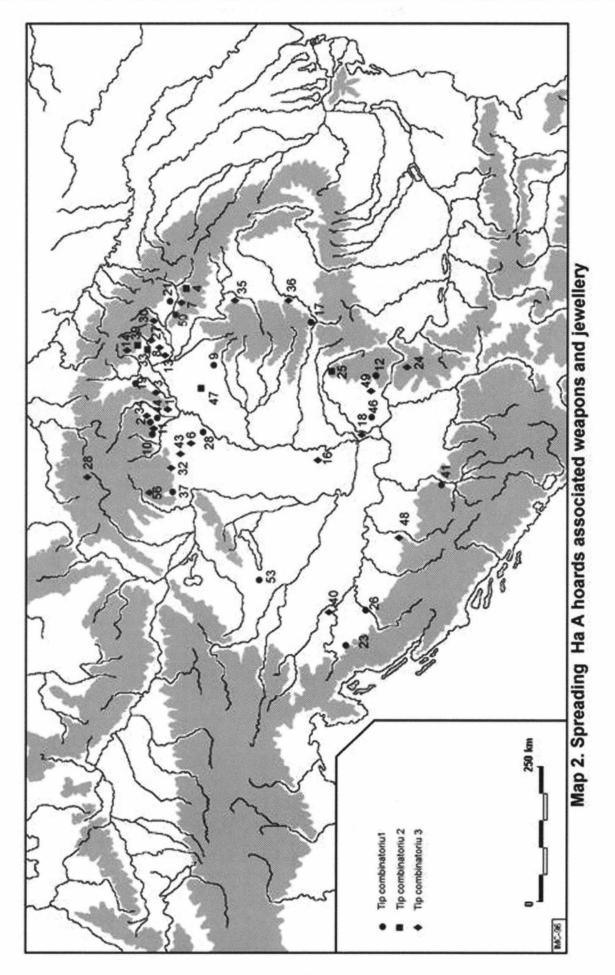
1	ABAÚJSZÁNTO II	30		20	CEDEDNICE
1.		20.	JÓSZA	39.	SEREDNEE
2.	AGGTELEK I	21.	KALINY I	40.	SISAK II
3.	BALASSAGYARMAT	22.	KAMENOVO	41.	SOBUNAR-DEBELO BRDO
4.	BÂRSANA	23.	KRNJAK	42.	SVETI JANEZ
5.	BODROGKŐZ	24.	LESKOVO	43.	SZENDRŐ
6.	BÜKKARANYOS I	25.	LUGOJ	44.	SZENDRŐLAD II
7.	CÂMPULUNG LA TISA	26.	MATIJEVICI-KULSKO BRDO	45.	SZUHAFŐ
8.	COPOVKA	27.	NEGROVO I	46.	TAMASFALVA
9.	DEBRECEN FANCSIKA I	28.	NÉGYES	47.	TÉGLÁS I
10.	EDELÉNY II	29.	NIZNA	48.	TESANJ III
11.	EDELÉNY-FINKE	30.	OLESNIK V	49.	TICVANIUL MARE
12.	FIZEŞ	31.	OSOJ	50.	TURŢ
13.	GELÉNES I	32.	PÉTERVÁSÁRA I	51.	VELIKI OTOK II
14.	GLUBOKOE	33.	PODMONASTY'R I	52.	VISS I
15.	GORNJI MILANOVIC	34.	RAGÁLY	53.	ZALASZENTMIHÁLY-POTRETE
16.	HAJDUKOVO	35.	RĂSCRUCI	54.	ZALKOD
17.	HĂRĂU	36.	RĂZBOIENI-CETATE	55.	ZSUJTA
18.	HETIN	37.	SÁROSPATAK I	56.	ZVOLEN B
19.	HUMENNE	38.	SĂLAJ		

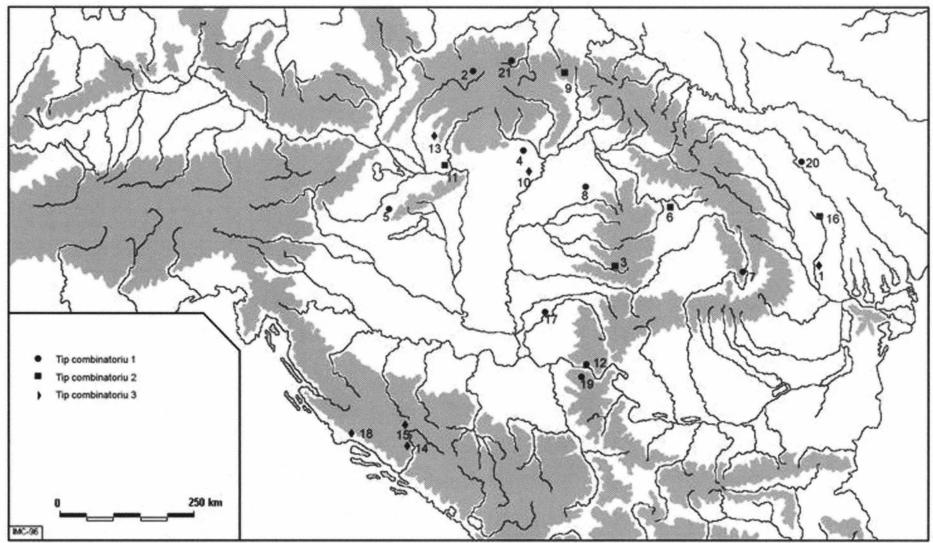
Hoard	AR	s	PA	SB	AH	PN	BR	N	FB	SH	P	SA	WA	J	D	TIYPE
DEBRECEN JOSA	X	X		X			X	X								
COBOR		X					X									]
VELKA B		X		Ţ					X					1		1
LIBORAJDEA		X	X									X				
CELLDOMOLK IV	X				X	X	X				X	X				]
TOPOLNICA	_	X	X			X	X			ĺ	X	X				]
BOBROVCEK		X							X	X						] _ [
BUKKSZENTLASZLO				X		Ī	X	X	X			X	1			
SECANJ I				X		X	X		X	X		X				TYPE
VALEA RUSULUI		X					X		X	X		X				<u> </u>
BRAD			Τ				X			X						Т
CIREȘOAIA I							X					X				1
KAMENY MOST							X		X	X		X				1 =
HAZLIN			1				X			X		X				PE
RAFAILA									X	X		X				TYPE
BÂRLAD			1					Ī	X			X	X			
OMETALA	Ì									X		X		X		1
SITNO											X	X	X	X		ַן
PROZOR												X		X		<u> </u>
NITRA A										X			X	X		TYPE
KACS										1		X		X	X	

Fig. 4. Combinatorial type hoards Ha B<sub>1-2</sub>. AR – arm ring, S – sword, PA – protective arm ring, SB – spiral bracelet, AH – arrowhead, PN – pendant, BR – bracelet, N – necklace, FB – fibulae, SH – spear head, P – pins, SA – socketed axe, WA – winged axe, J - jewelry, D – dagger.



22





Map 3. Spreading Ha B 1-2 hoards associated weapons and jewellery

1.BÅRLAD, 2. BOBROVCEK, 3.BRAD, 4.BŰKKSZENTLASZLO I, 5.CELLDŐMŐLK IV, 6.CIREŞOAIA I,7.COBOR, 8.DEBRECEN-JOSA,9.HAZLIN, 10.KÁCS, 11.KAMENNY MOST, 12.LIBORAJDEA, 13.NITRA A, 14.OMETALA, 15.PROZOR, 16.RAFAILA, 17.SEČANJ I, 18. SITNO, 19. TOPOLNICA, 20.VALEA RUSULUI, 21.VEL KA B