### Design and technological features of early medieval ceramic ware using the example of the researched micro-complex Torčec in Podravina

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## Oblikovne i tehnološke značajke ranosrednjovjekovnog keramičkog posuđa na primjeru istražene mikrocjeline Torčec u Podravini

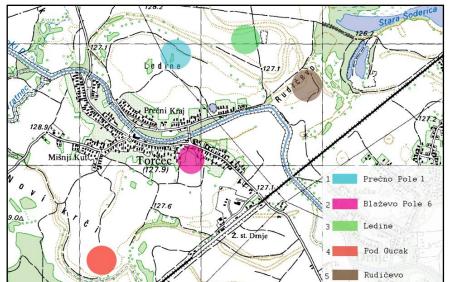


Design and technological features of early medieval ceramic ware using the example of the researched micro-complex Torčec in Podravina

Split, November 7-11, 2023

In Gornja Podravina region, several locations in the vicinity of Torčec were archaeologically investigated, where settlement remains from the early and the high Middle Ages were found (2002-2008).





The Torčec microregion includes five (5) archaeological sites:

- 1. Prečno pole I (35 features)
- 2. Blaževo pole 6 (5 features)
- 3. Ledine (13 features)
- 4. Pod Gucak (10 features)
- 5. Rudičevo (8 features)

The remains of several houses, hearths and ovens, as well as waste pits (71 features), parts of open settlements of a scattered or dispersed type located along the old courses of the Drava River and its meanders are documented.



During the occupation of the Torčec microregion for several centuries in the Middle Ages, changes in the ground plan forms of the houses were observed (only 8 dwelling structures could be recognized)

Torčec I - end of the 6th and beginning of the 7th century (2 features)

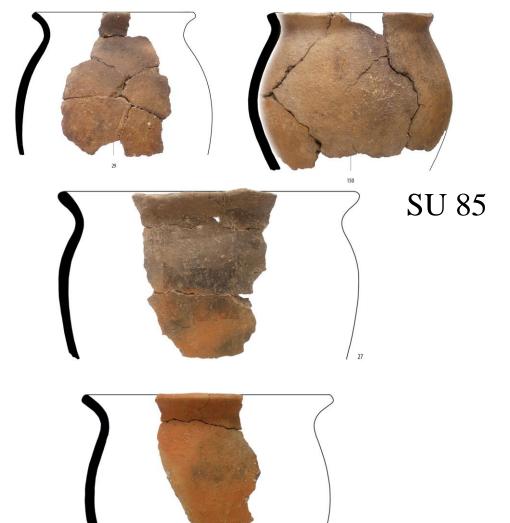
SU Radiocarbon Age One Sigma Range Two Sigma Range Code 085/2 **KIA BP 1471 ± 19** cal AD 571 - 614 (68.3 %) cal AD 558 - 638 (95.4 %) **C14** 37482 SJ 085 SJ 086 2U 090

The continuity of the settlement of this area is documented from the turn of the 6th and the beginning of the 7th century to the end of the 13th and the beginning of the 14th century.

In this period, different forms and technological characteristics of pots and other ceramic dishes were observed, which, based on a detailed analysis, were classified into five ceramic group (CG 1-5)



Torčec I – the end of the 6th and the beginning of the 7th century The differences between the defined ceramic groups were additionally supported by radiocarbon analyzes and divided into five phases (T I-V).



During the entire observed period, **ordinary kitchen pots** are the most frequently represented, which in certain groups shows the same or similar features in the design of the rim and body, decoration motifs and the method of production.

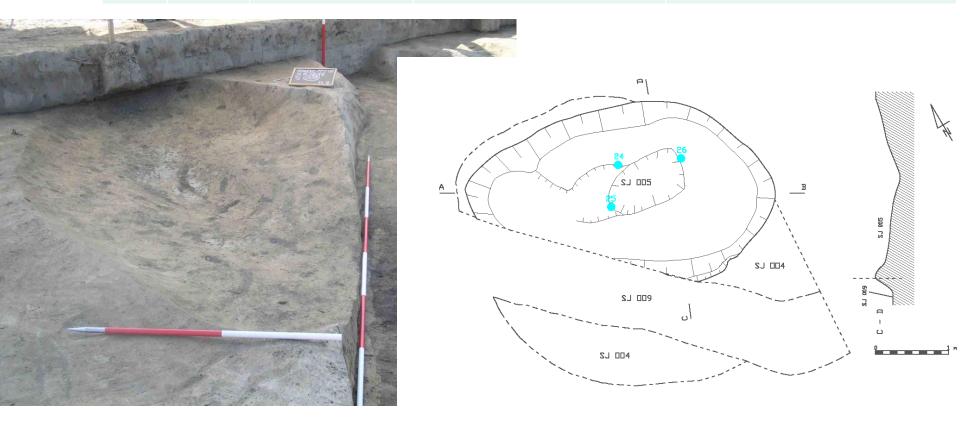
In the phase Torčec I - CG 1 pots are made by hand.

SU<sub>6</sub>

### Torčec II - mid-7th to mid-8th century (9 features)

**C14** 

SU	Code	Radiocarbon Age	One Sigma Range	Two Sigma Range
<b>37</b>	KIA	<b>BP 1439 ± 22</b>	cal AD 604 - 612 (12.3 %)	cal AD 564 - 574 (2.9 %)
	28648		cal AD 616 - 644 (56.0 %)	cal AD 577 - 589 (3.8 %)
				<u>cal AD 597 - 657 (88.7 %)</u>



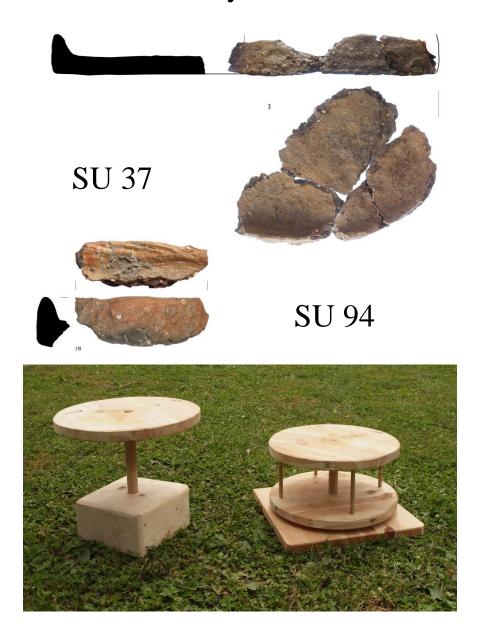


### Torčec II - mid-7th to mid-8th century

In addition to ordinary kitchen pots, in the Torčec II phase - **shallow platter** of circular form made by hand and used for baking bread appear



In the Torčec II phase – CG 2 the pots are made on a hand potter's wheel.







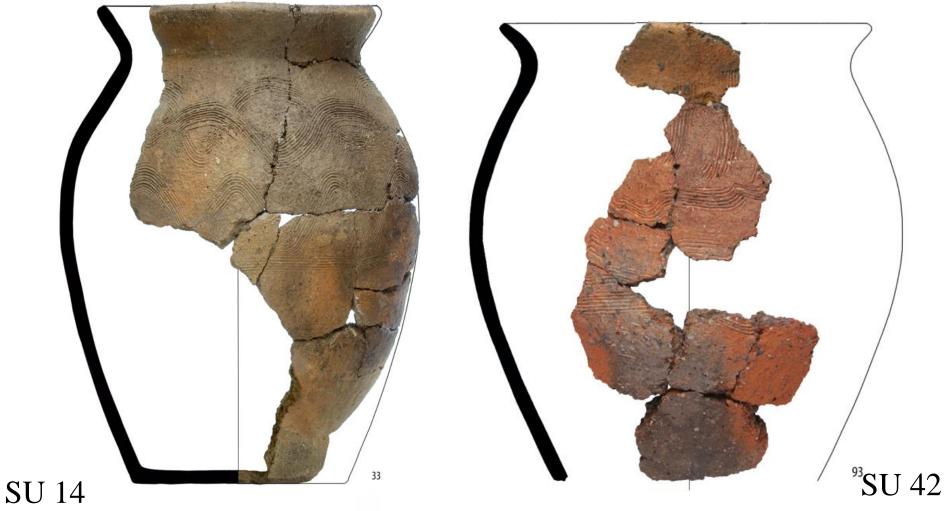
## Ceramic group 2



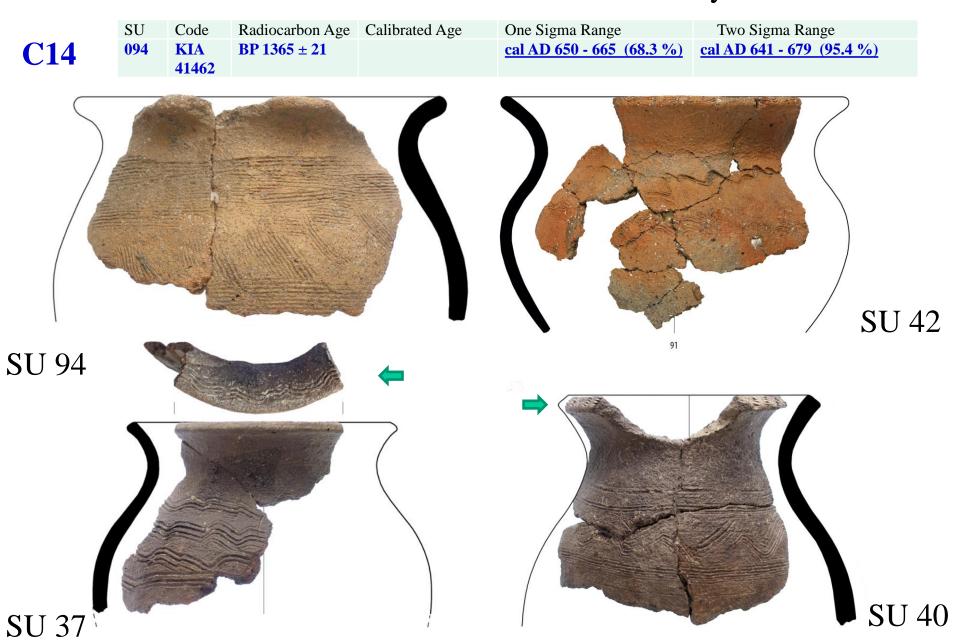
SU 37

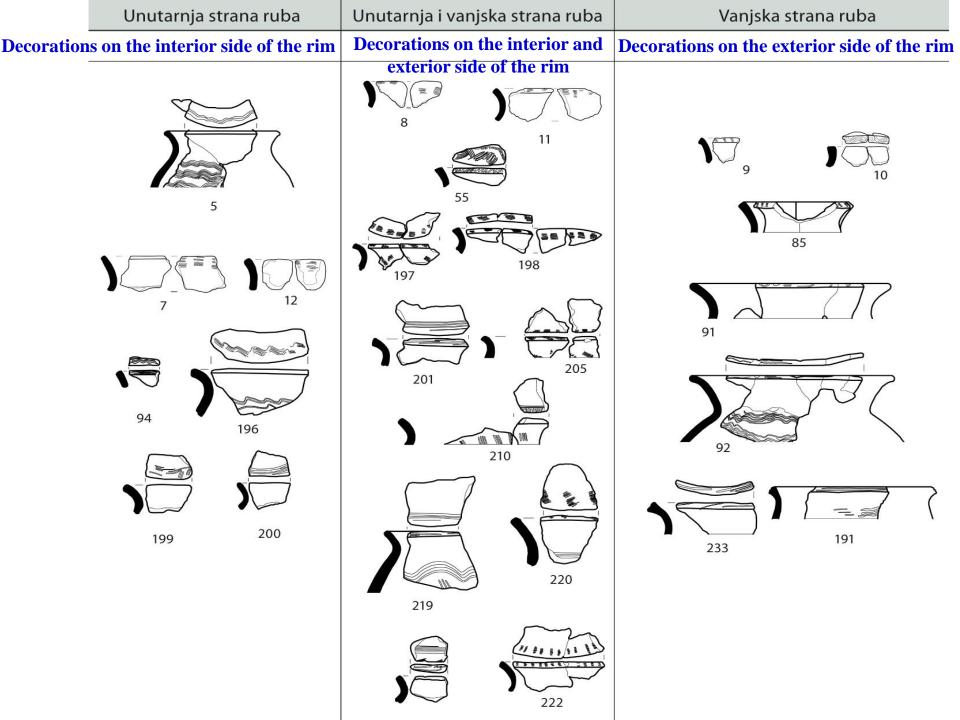
## Torčec II - mid-7th to mid-8th century

	SU	Code	Radiocarbon Age	Calibrated Age	One Sigma Range	Two Sigma Range
C14?	14	KIA 28646	BP 1234 ± 22	cal AD 777	cal AD 790 - 823 (23.9 %)	cal AD 691 - 702 (3.8 %) cal AD 712 - 750 (25.8 %) cal AD 762 - 784 (15.3 %) cal AD 786 - 883 (50.6 %)



### Torčec II - mid-7th to mid-8th century





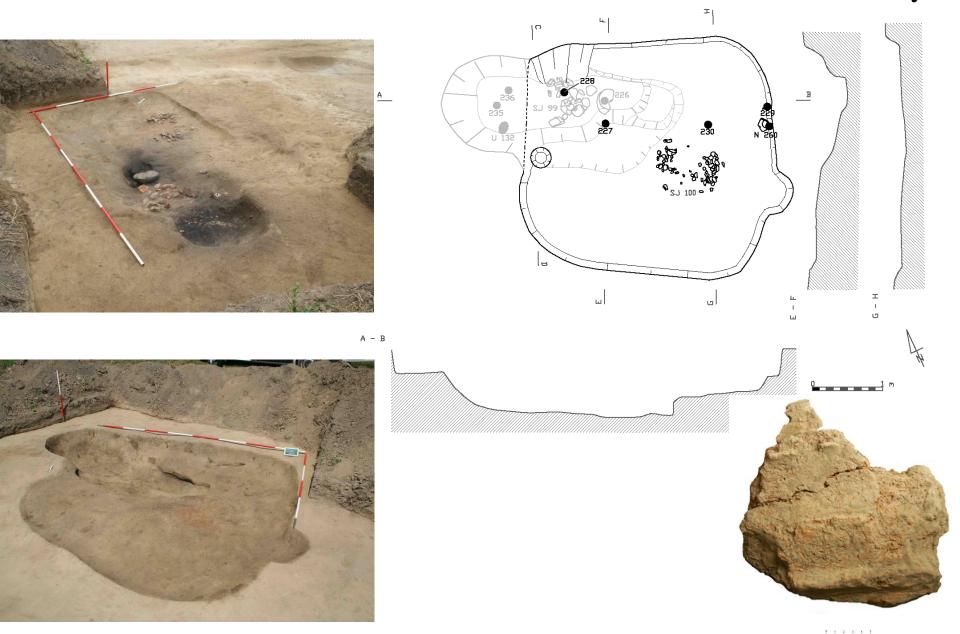
### Free-standing oven located next to one od the feature (SU 94)

<b>C14</b>	SU Code 096b KIA 37484		Radiocarbon Age BP 1465 ± 24	Calibrated Age	One Sigma Range cal AD 575 - 623 cal AD 629 - 630	(66.3 %) (2.0 %)	Two Sigma Range <u>cal AD 558 - 643 (95.4 %)</u>
	104	KIA 37483	BP 1433 ± 34		<u>cal AD 602 - 648</u>	(68.3 %)	<u>cal AD 567-658 (95.4 %)</u>
A		236 SJ 5	226 226 221 100	B 230 N 260	H - U	ID Mare my ase 37 98 to 30 yr.	
1////	a 860 L2	S.J.	a 960 fS 660		4		
□ ŽR∨ANJ				0	1 m		

Torčec II - mid-7th to mid-8th century



Torčec III – second half/end of the 8th to first half/mid. 10th century



# Torčec IIIa – second half/end of the 8th and 9th centuries (6PP + 2BP features)

 SU
 Code
 Radiocarbon Age
 Calibrated Age
 One Sigma Range
 Two Sigma Range

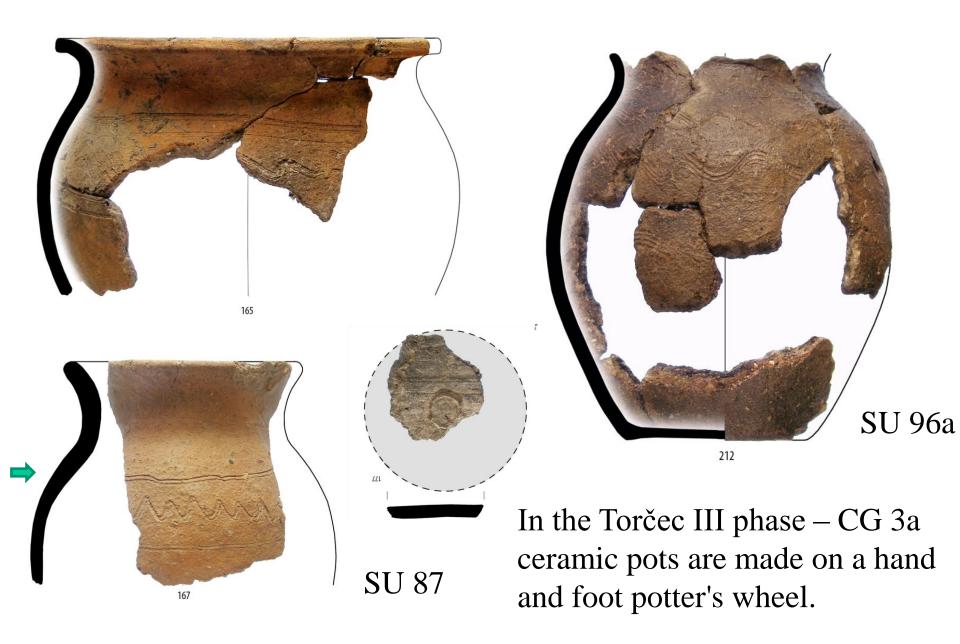
 31
 KIA
 BP 1206 ± 23
 cal AD 778 - 823 (43.7 %)
 cal AD 723 - 740 (43.7 %)

 37481
 cal AD 838 - 867 (24.6 %)
 cal AD 770 - 889 (91.6 %)

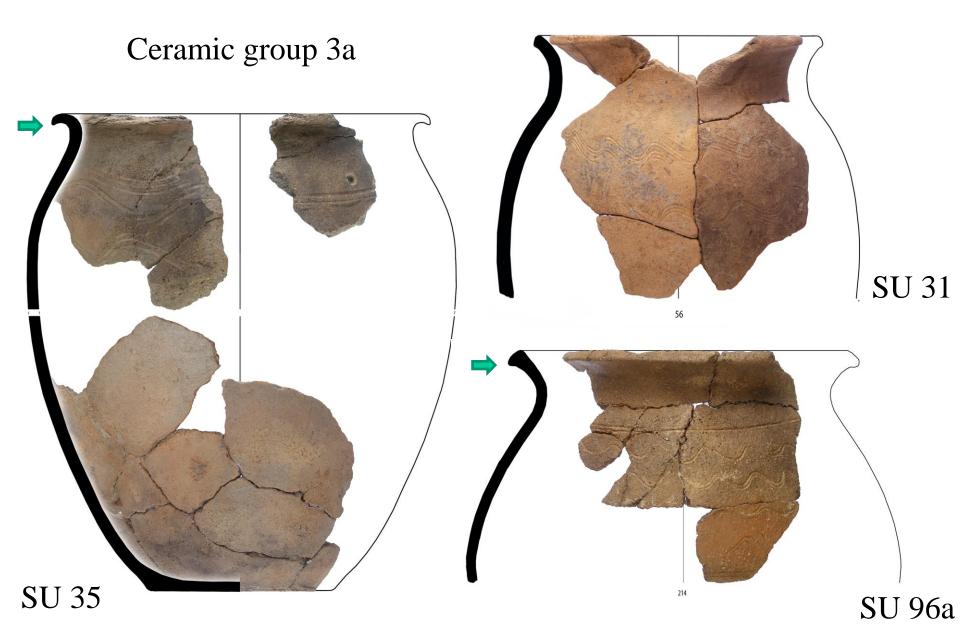


Reconstruction of the possible form of the house SU 31

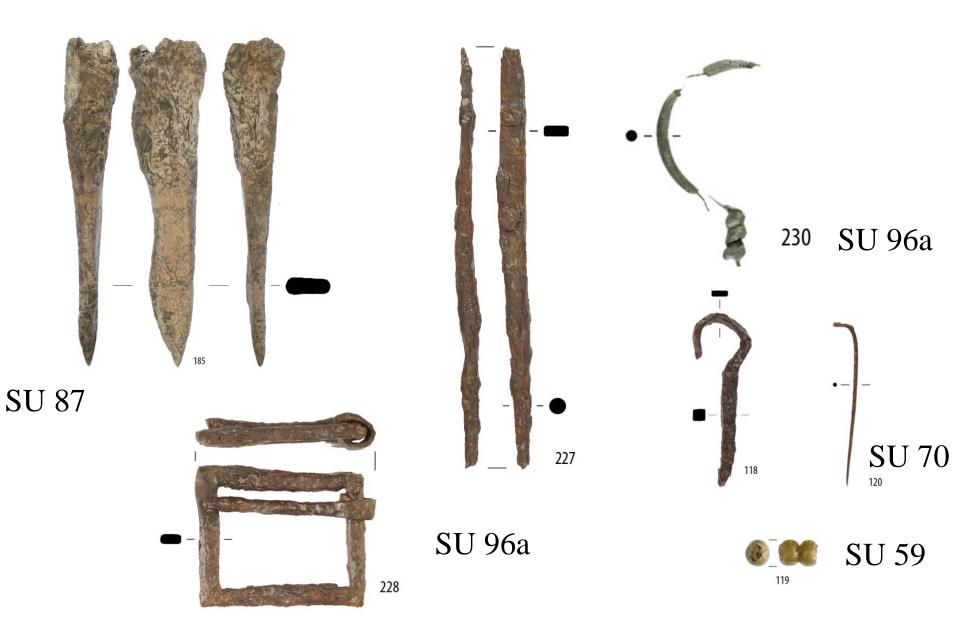
#### Torčec IIIa - second half/end of the 8th and 9th centuries



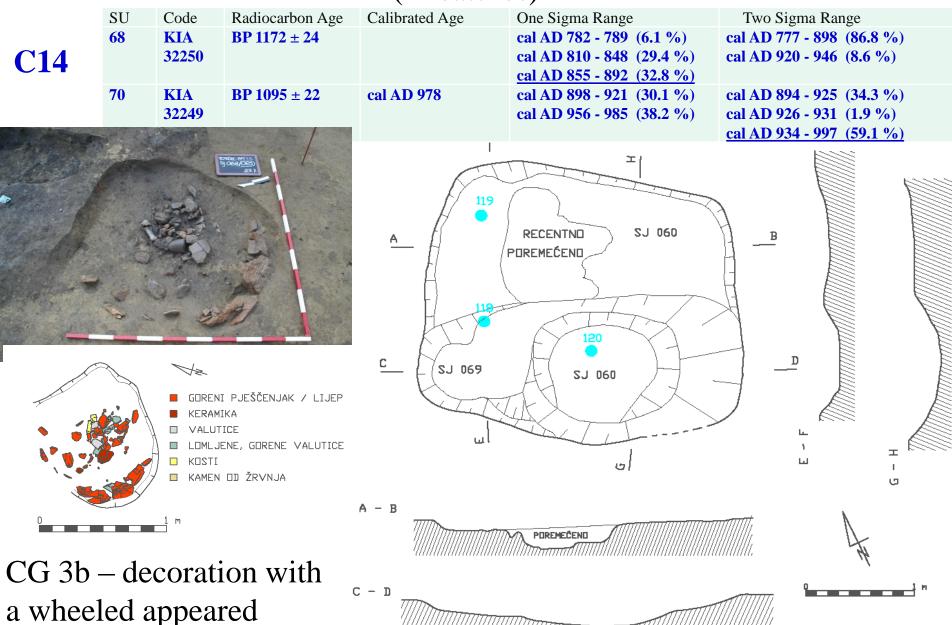
Torčec IIIa - second half/end of the 8th and 9th centuries



Torčec III – second half/end of the 8th to first half/mid. 10th century



# Torčec IIIb – second half/end of 9th to first half/mid. 10th century (4 features)

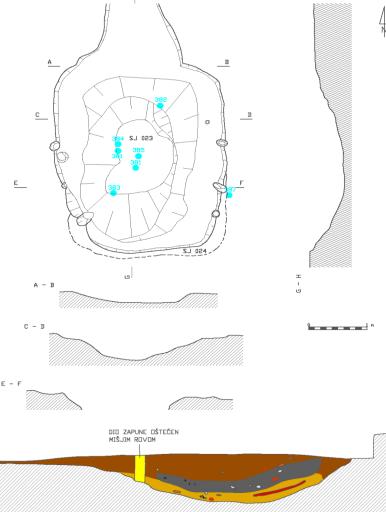


## Torčec IVa – second half of the 10th to the end of the 11th centuries (3PP + 13L features)

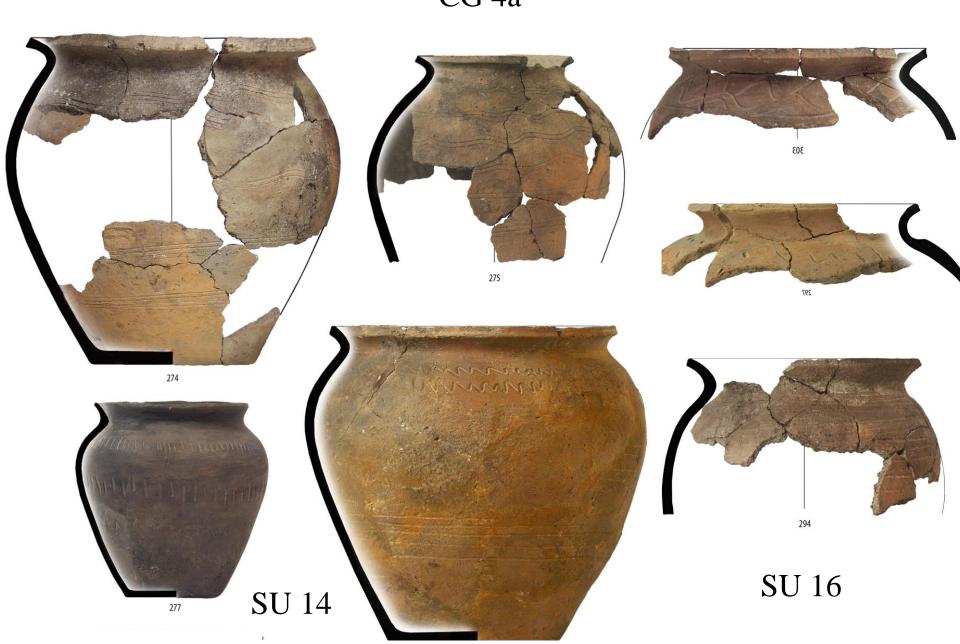


SU Code Radiocarbon Age Calibrated Age One Sigma Range Two Sigma Range **C14** 24 KIA cal AD 1002 - 1012 (10.8 %) cal AD 995 - 1056 (63.9 %)  $BP 989 \pm 25$ cal AD 1023 26974 cal AD 1016 - 1039 (45.3 %) cal AD 1087 - 1122 (18.1 %) cal AD 1105 - 1109 (2.7 %) cal AD 1138 - 1156 (13.4 %) cal AD 1142 - 1150 (9.5 %)





Torčec IVa – second half of the 10th to the end of the 11th centuries – CG 4a



**C14** 

SU Code 16 Z 3167 Radiocarbon Age **BP 1115 \pm 90** 

One Sigma Range cal AD 810-1020 (65.7 %)

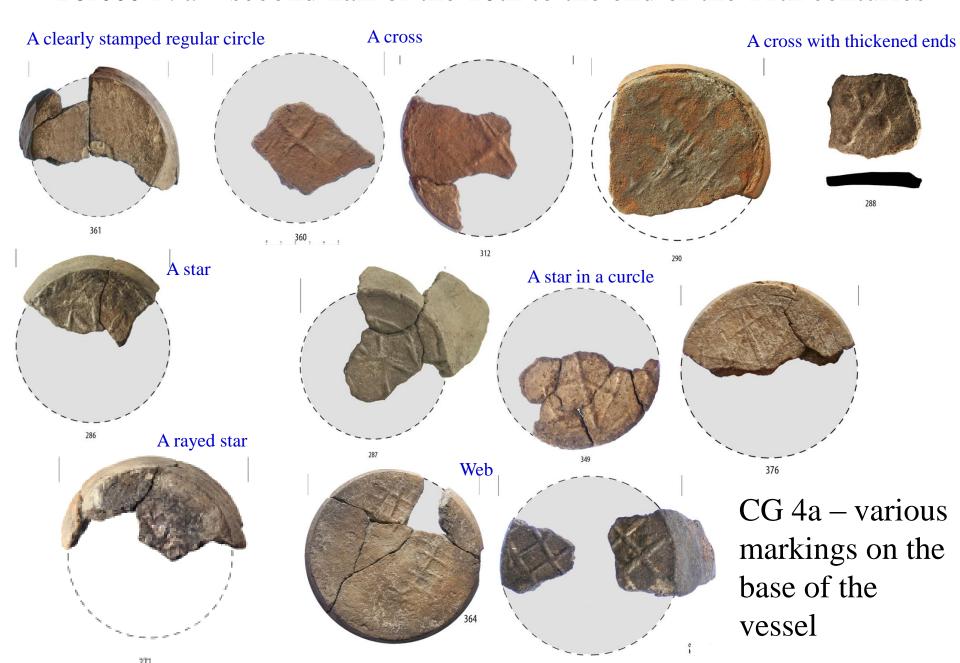
Ceramic group 4a – production on a fast potter's wheel



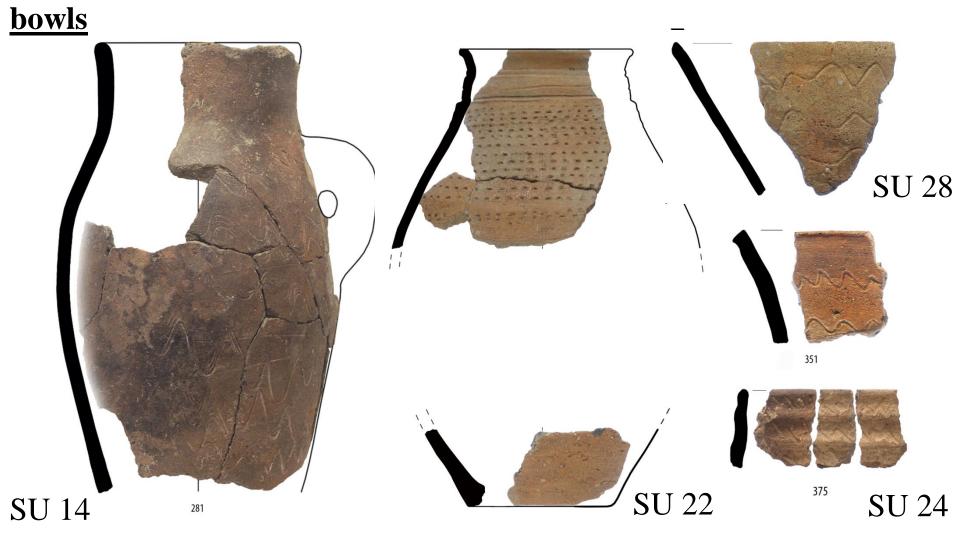


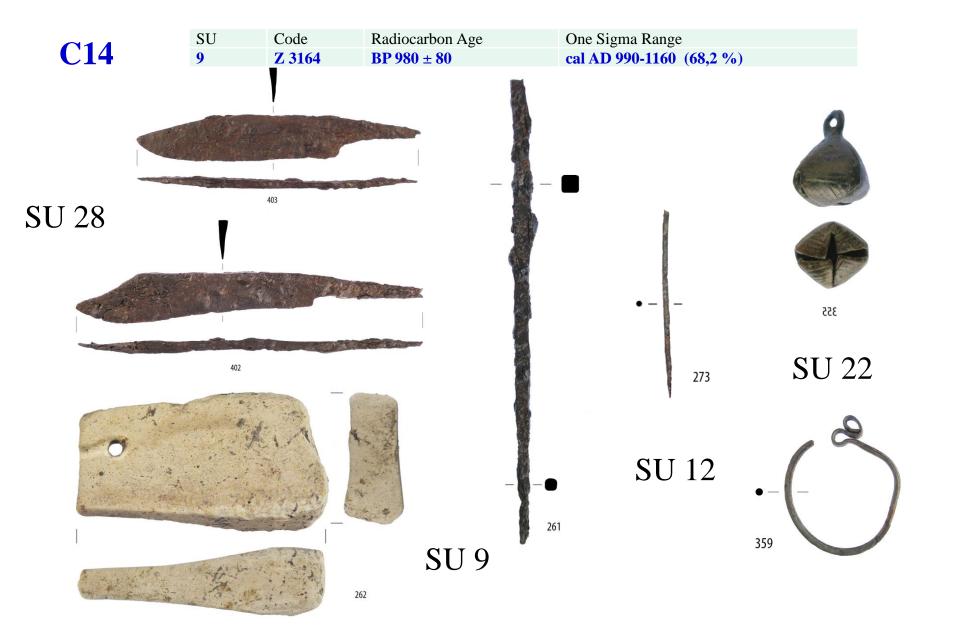


SU 22

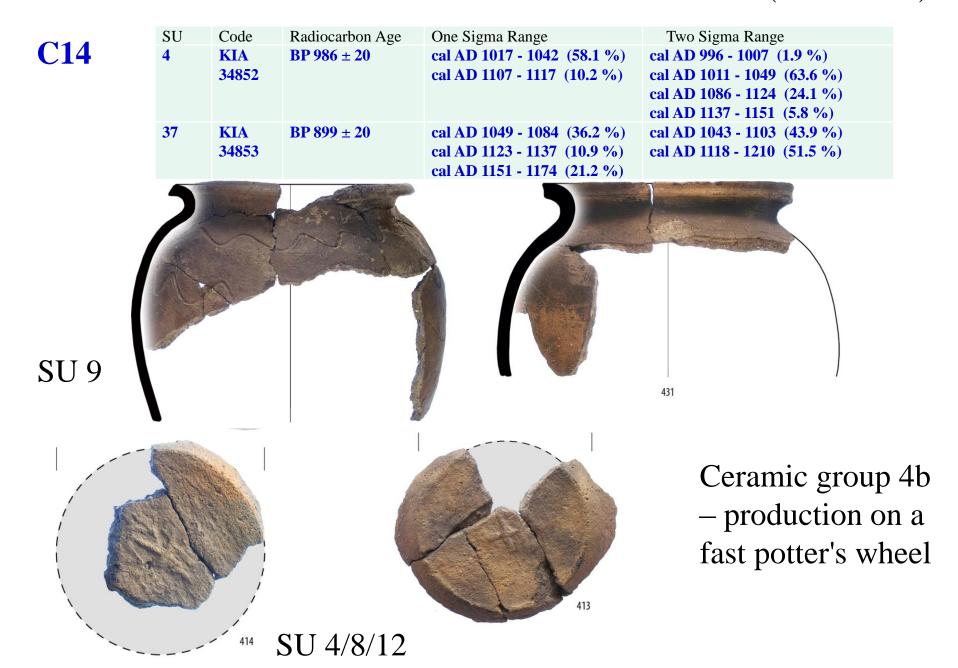


CG 4a – new forms of vessels: **jug with a massive handle**, a pot with a narrow, tall, cylindrical neck-**pot-like jug**, a **pot with a ribbed neck**,



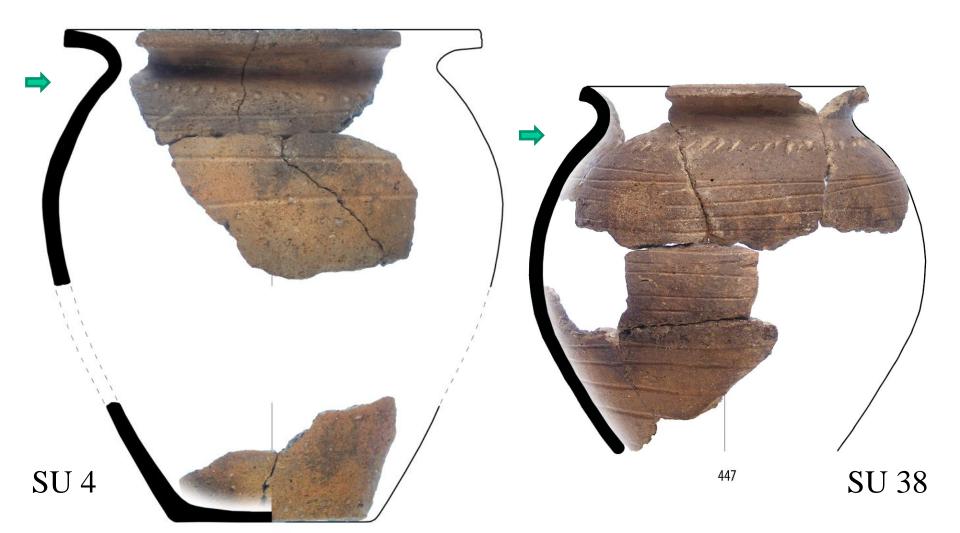


### Torčec IVb - the end of the 11th to the end of the 12th (10 features)



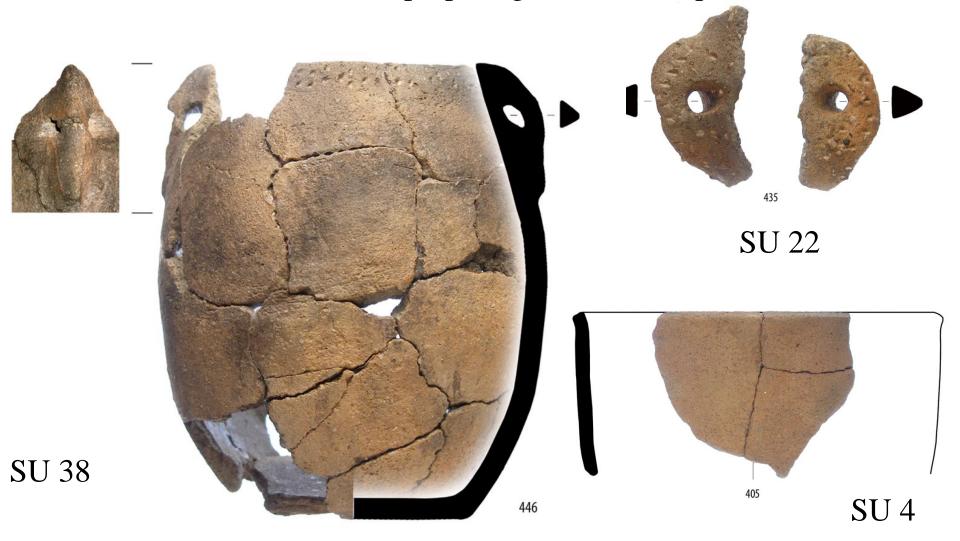
Torčec IVb - the end of the 11th to the end of the 12th century

CG 4b - Specific decoration: droplet indentations on the shoulder combined with various decorations



Torčec IVb - the end of the 11th to the end of the 12th century

CG 4b – new form of vessels: **pot with small handles** / lugs on the rim, which served for preparing food on an open fire, **bowls** 



Torčec IVb - the end of the 11th to the end of the 12th century



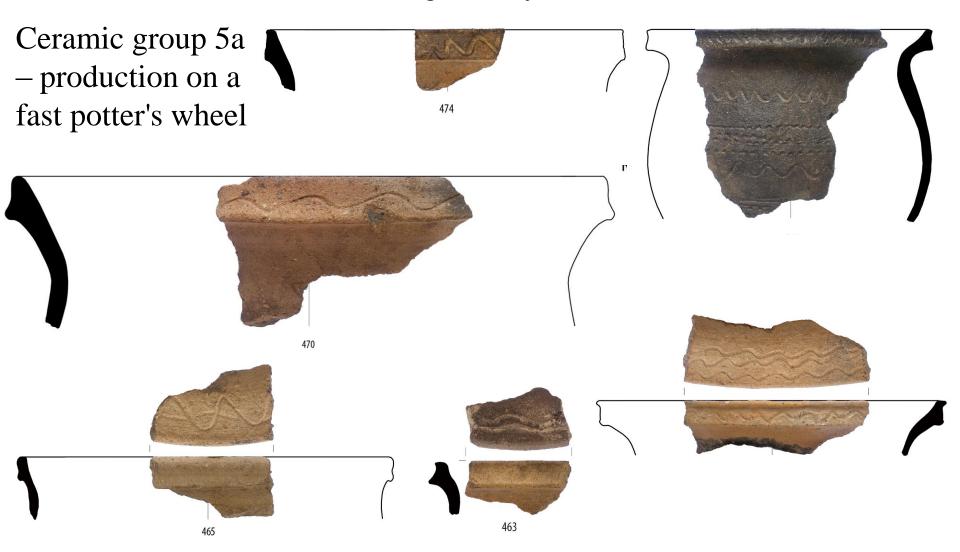
Oven - SU 4



425

Torčec Va – middle of the 12th to first half of the 13th century (3PP + 1R features)

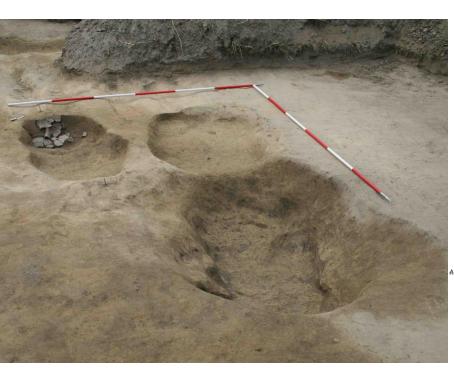
CG 5a – new decoration – single wavy line on the outside of the rim

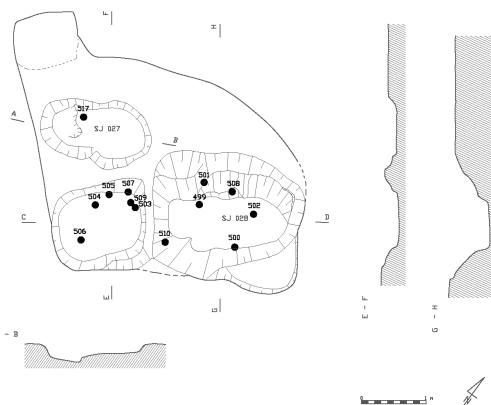


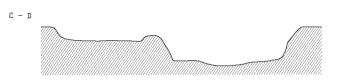
# Torčec Vb - second half of the 13th and beginning of the 14th century (2PP + 7R features)

**C14** 

SU	Code	Radiocarbon Age	One Sigma Range	Two Sigma Range
14	KIA	BP $667 \pm 31$	cal AD 1282 - 1305 (36.2 %)	cal AD 1275 - 1321 (50.6 %)
	32253		cal AD 1364 - 1384 (32.1 %)	cal AD 1349 - 1392 (44.8 %)
<b>26</b>	KIA	<b>BP 779 <math>\pm</math> 21</b>	cal AD 1227 - 1233 (13.0 %)	cal AD 1220 - 1274 (95.4 %)
	32254		cal AD 1239 - 1268 (55.3 %)	

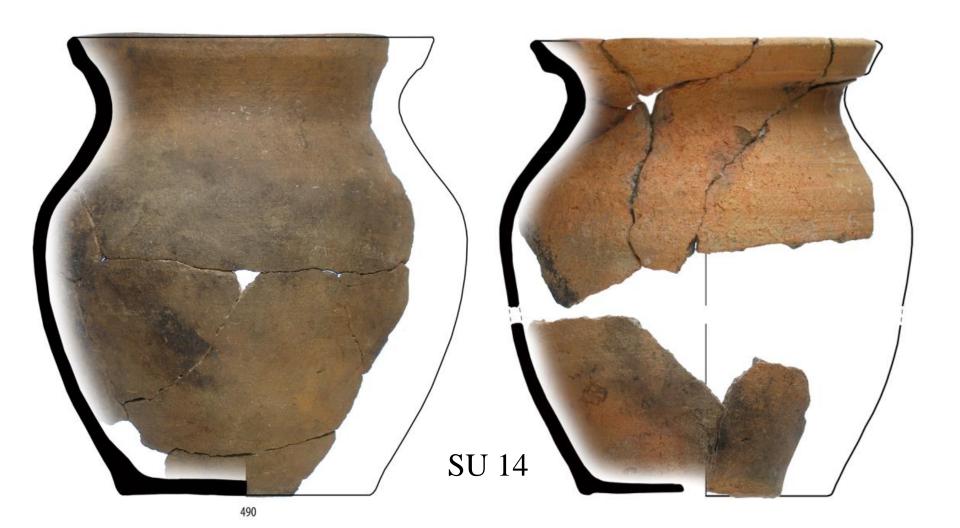






Torčec Vb – second half of the 13th and beginning of the 14th century

Ceramic group 5b – production on a fast potter's wheel with visible traces of rotation on the outer wall of the pot



Torčec Vb – second half of the 13th and beginning of the 14th century



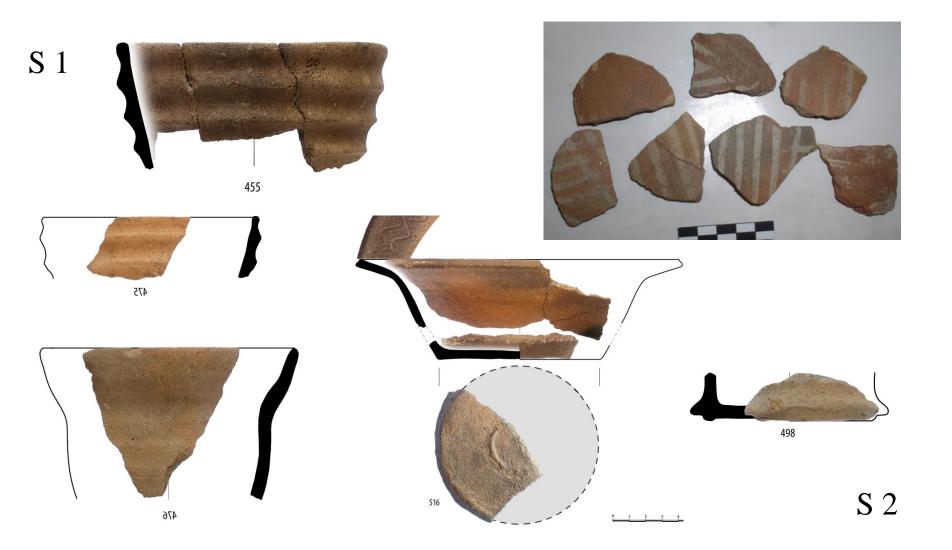
SU 14

Torčec Vb – second half of the 13th and beginning of the 14th century

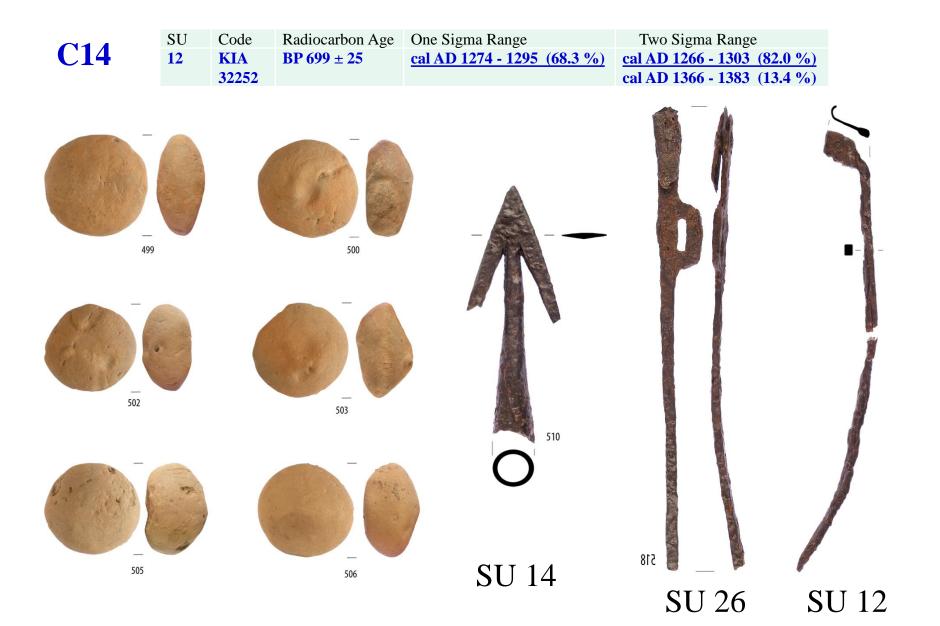


SU 26

Torčec V – second half of the 12th to first half of the 14th century CG 5 – a new form of vessels - **ceramic cups** and **plates** 



Torčec Vb – second half of the 13th and beginning of the 14th century

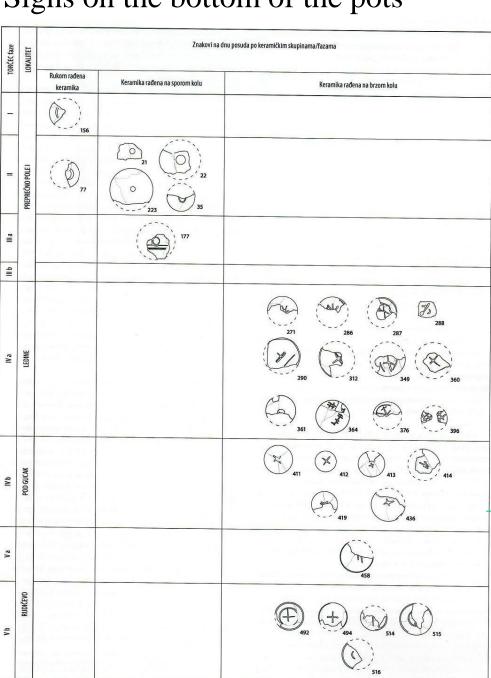


## Forms of vessels - phases Torčec I-V

RČEC faze	LOKALITET	Funkcionalni oblici posuda (B-J) po keramičkim skupinama/fazama									
aze	LOK	В	С	D	E	F	G	Н	I I	J	
IIIa	PREČNO POLE I	3 144 209		×		-					
IVa	LEDINE		269 269 281	325 326 348	375	351 351 399					
IVb	POD GUCAK	3		340		405	435	406			
Va	RUDIČEVO				16				455 475 475 476		
Vb								498		516	



Signs on the bottom of the pots





## Thank you for your attention



PhD Andreja Kudelić

PhD Tena Karavidović