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

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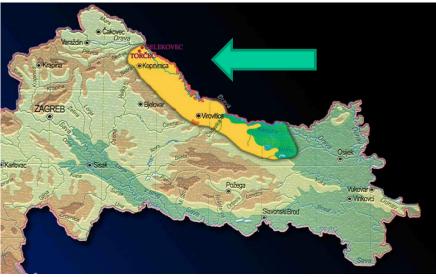
Oblikovne i tehnološke značajke ranosrednjovjekovnog keramičkog posuđa na primjeru istražene mikrocjeline Torčec u Podravini

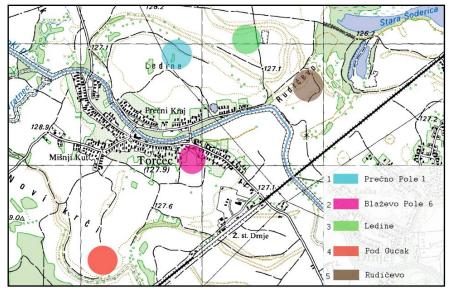


Design and technological features of early medieval ceramic ware using the example of the researched micro-complex Torčec in Podravina

Split, November 7-11, 2023

Museum of Croatian Archaeological Monuments Ivan Meštrović Promenade 18 21000 Split, Republic of Croatia 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).





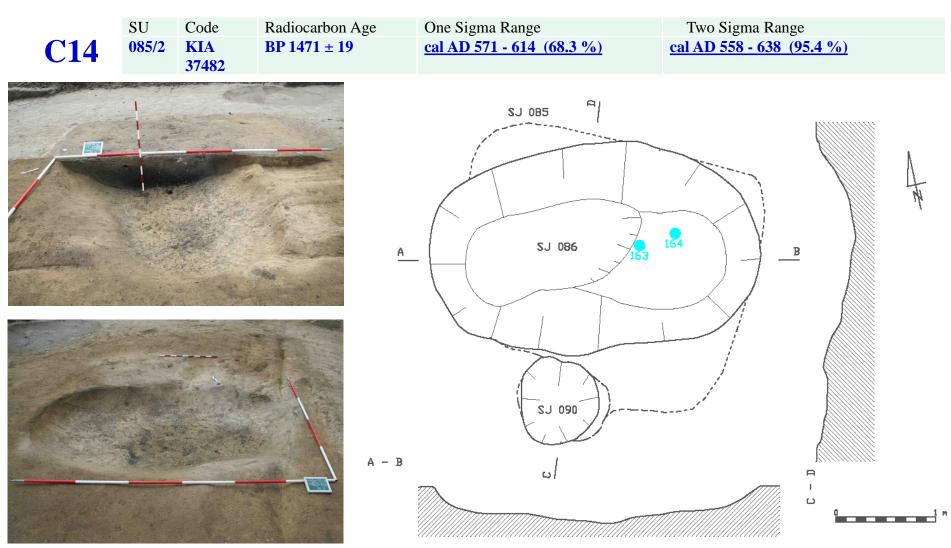
The Torčec microregion includes five (5) archaeological sites:

- 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)



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)

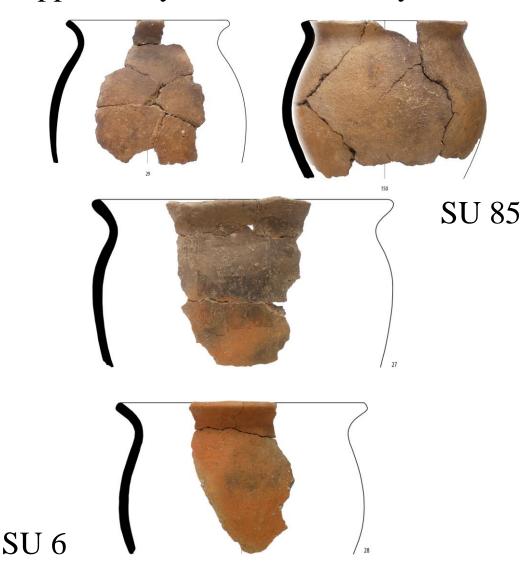
SU 85



Ceramic group 1



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).

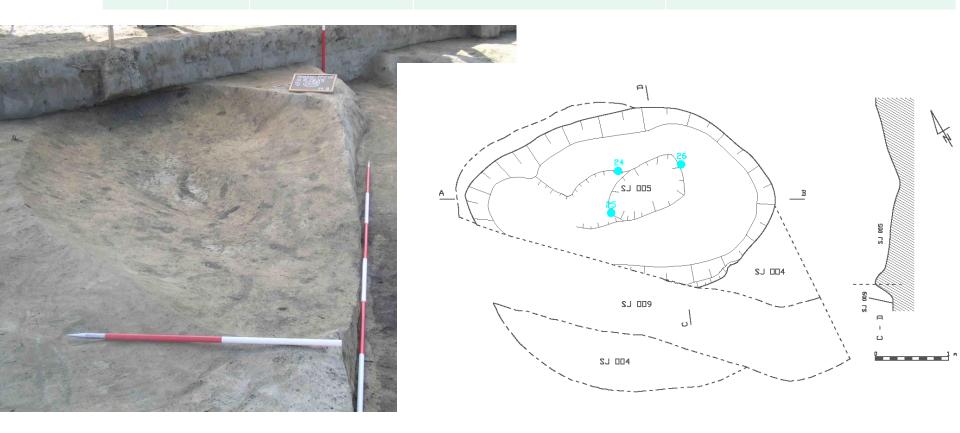


During the entire observed period, **ordinary kitchen pots** are the most frequently represented, which in certain groups shows the same or similar features in the design of the rim and body, decoration motifs and the method of production.

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

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

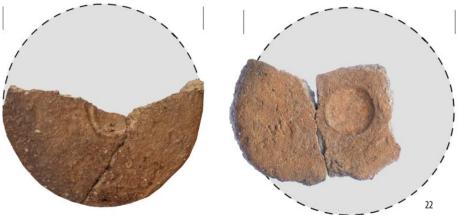
| | SU | Code | Radiocarbon Age | One Sigma Range | Two Sigma Range |
|------------|----|--------------|-----------------|--|---|
| C14 | 37 | KIA 28648 | BP 1439 ± 22 | cal AD 604 - 612 (12.3 %) cal AD 616 - 644 (56.0 %) | cal AD 564 - 574 (2.9 %) cal AD 577 - 589 (3.8 %) cal AD 597 - 657 (88.7 %) |





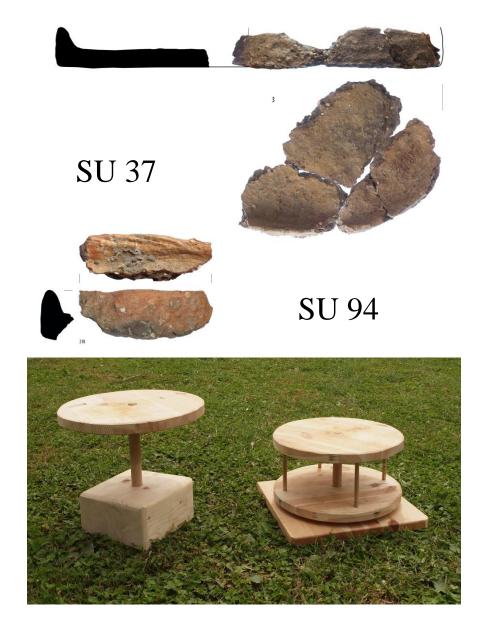
Torčec II - mid-7th to mid-8th century

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



SU 14

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









Ceramic group 2



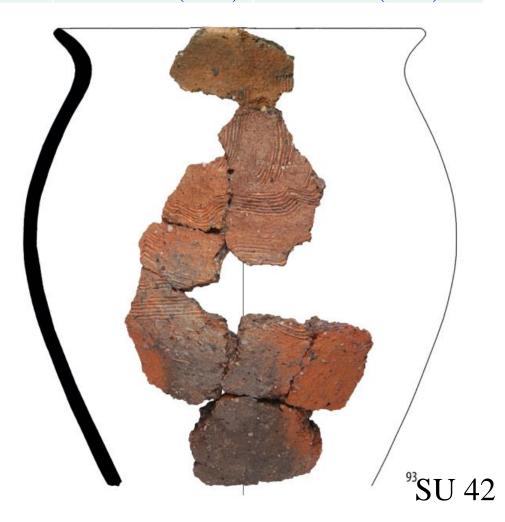
SU 37



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

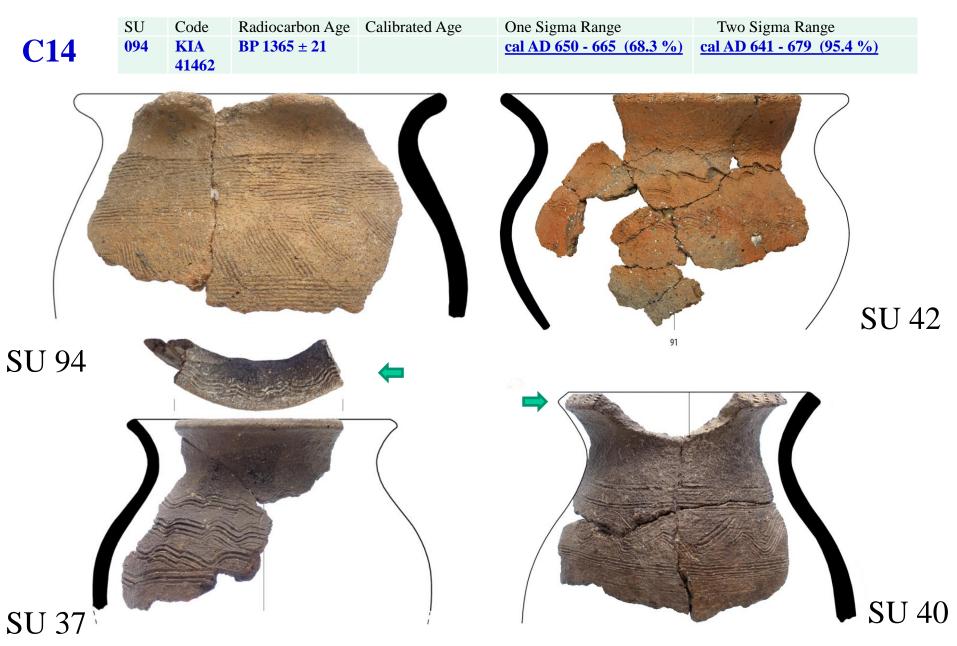
| | SU | Code | Radiocarbon Age | Calibrated Age | One Sigma Range | Two Sigma Range |
|-------|----|--------------|-----------------|----------------|--|--|
| C14 ? | 14 | KIA 28646 | BP 1234 ± 22 | cal AD 777 | cal AD 720 – 745 (21.2 %) cal AD 768 - 782 (13.0 %) cal AD 790 - 823 (23.9 %) cal AD 842 - 859 (10.2 %) | cal AD 712 - 750 (25.8 %) cal AD 762 - 784 (15.3 %) |

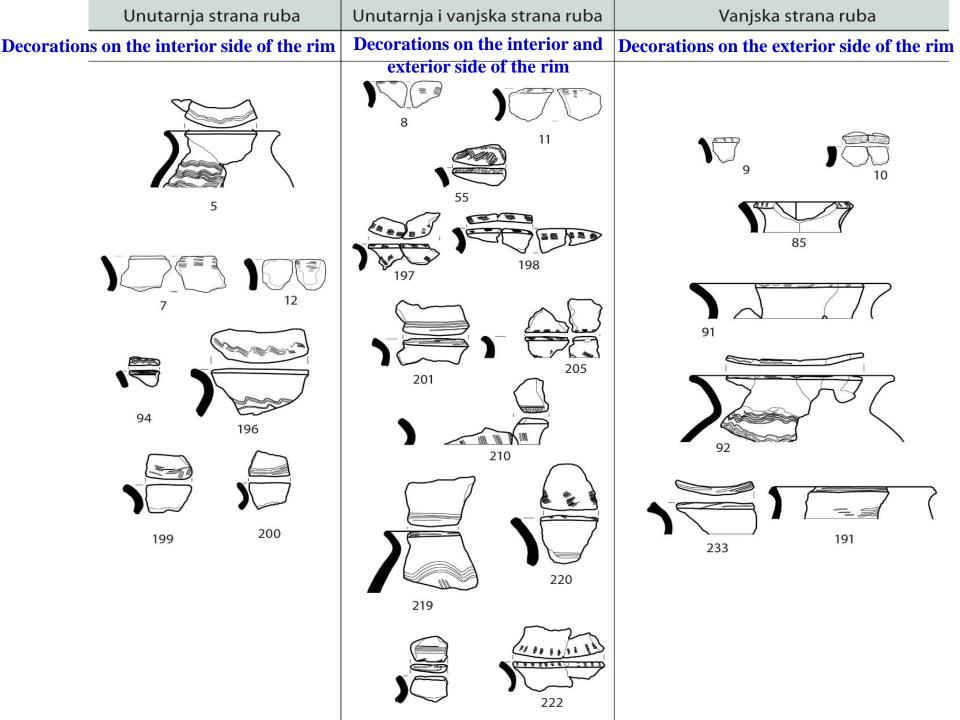




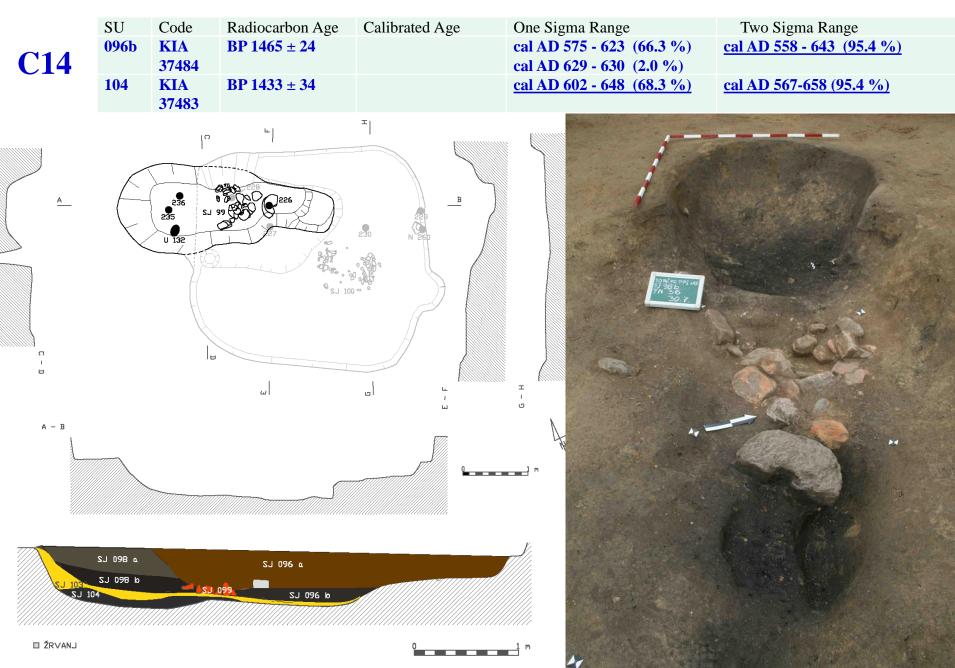
SU 14

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





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

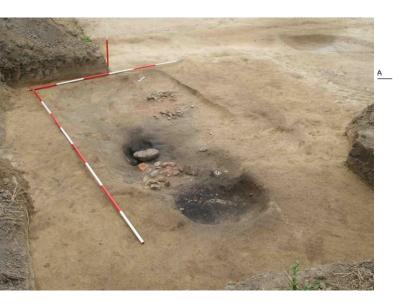


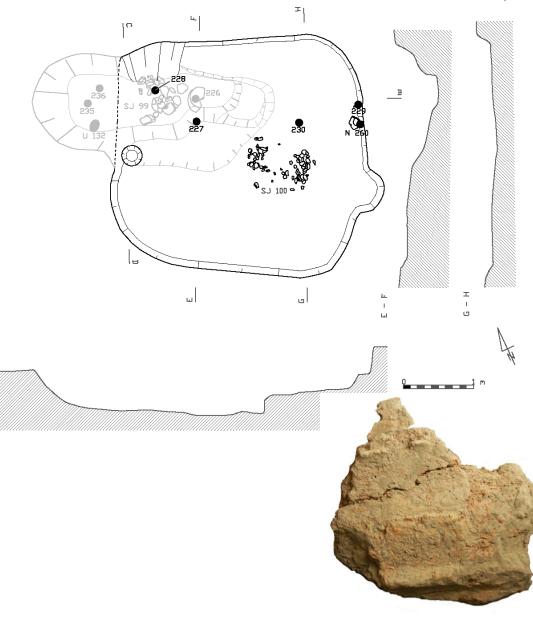
Torčec II - mid-7th to mid-8th century



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

A - B







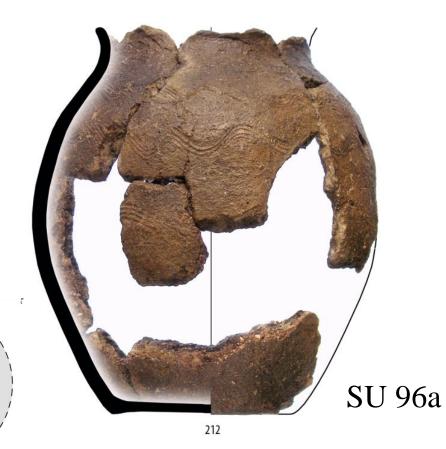
Torčec IIIa – second half/end of the 8th and 9th centuries (6PP + 2BP features)



Reconstruction of the possible form of the house SU 31

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

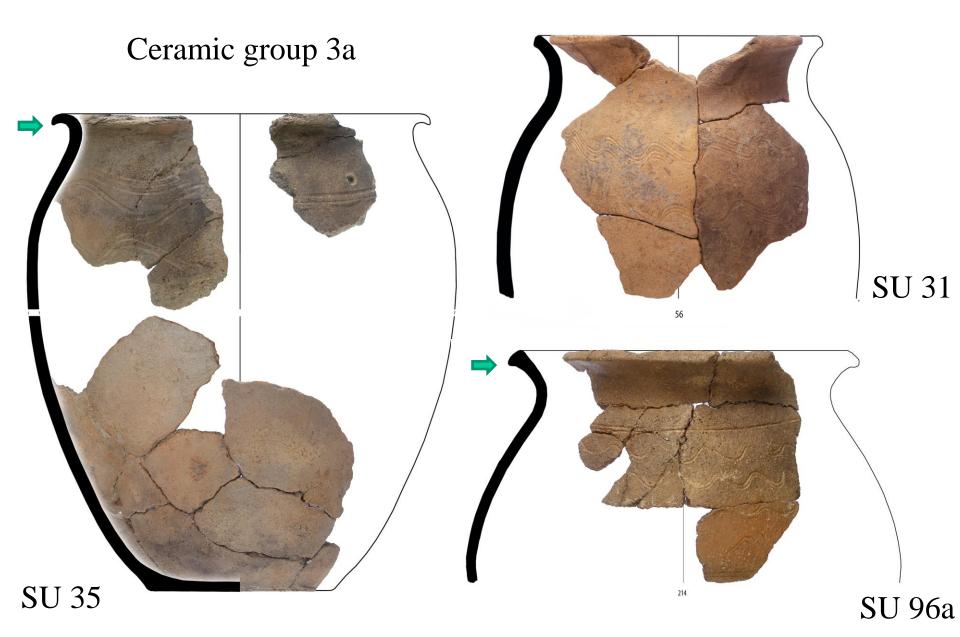




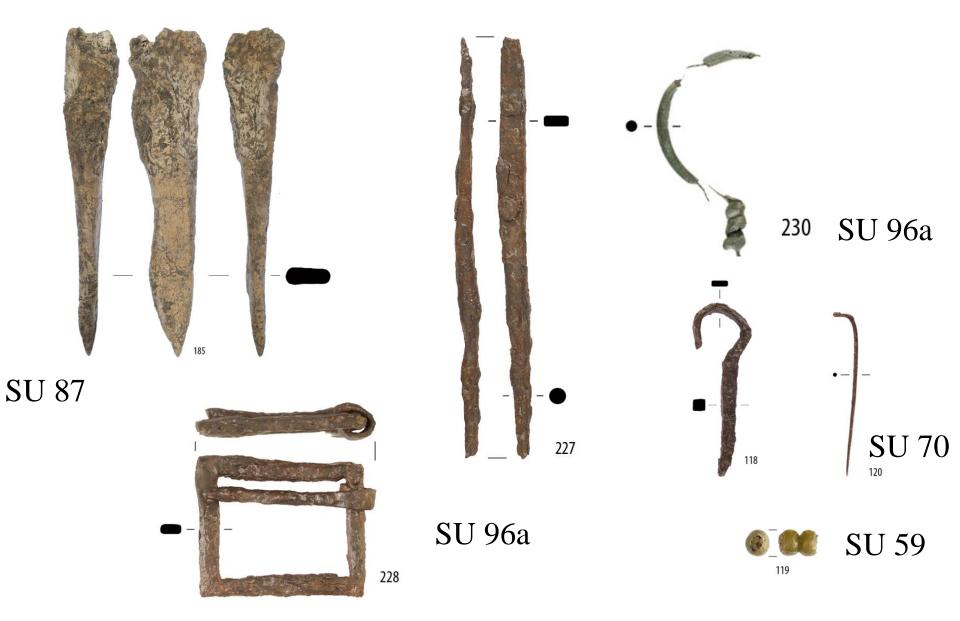
SU 87

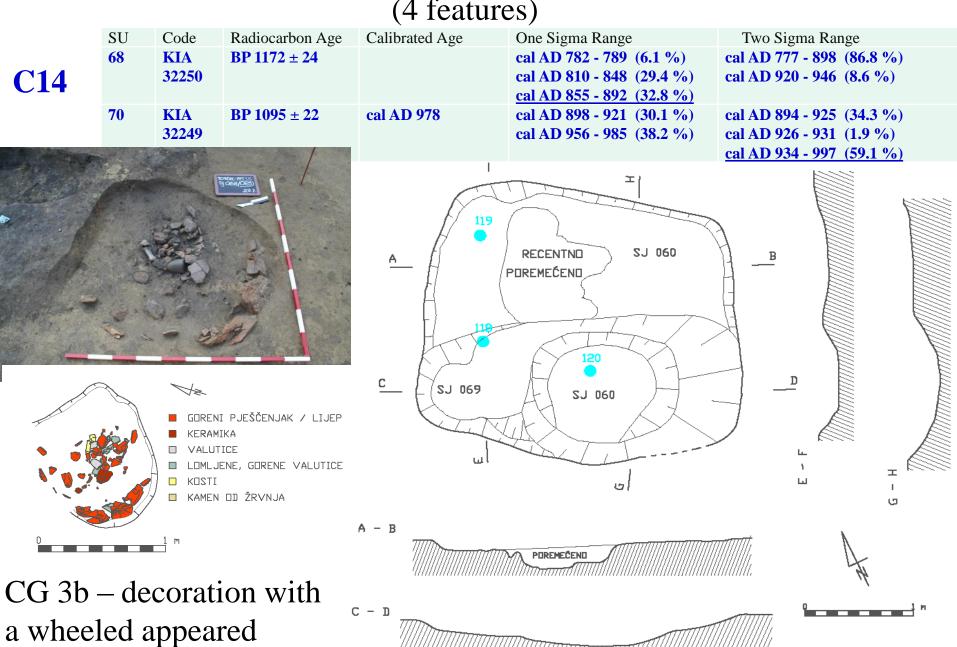
In the Torčec III phase – CG 3a ceramic pots are made on a hand and foot potter's wheel.

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

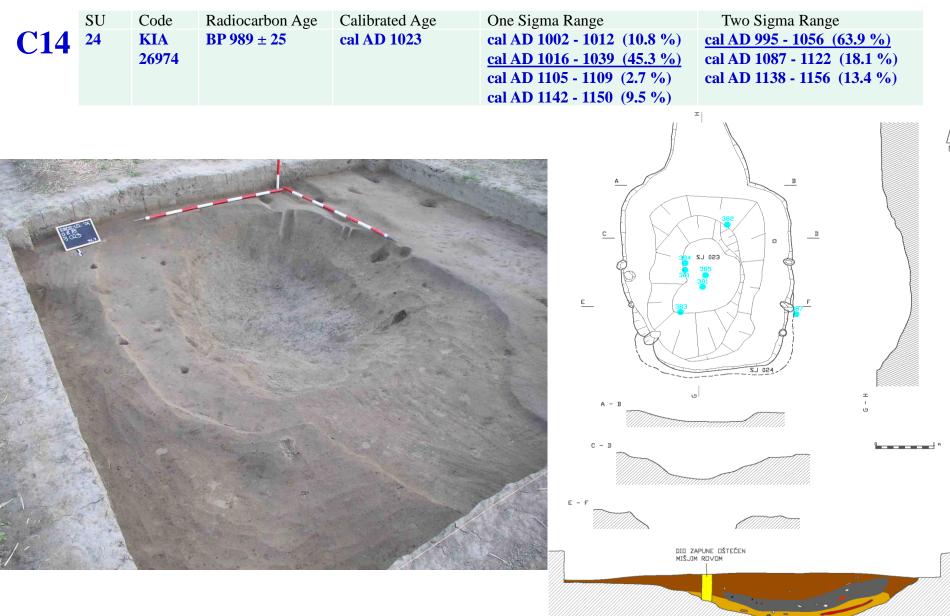




Torčec IIIb – second half/end of 9th to first half/mid. 10th century (4 features)

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







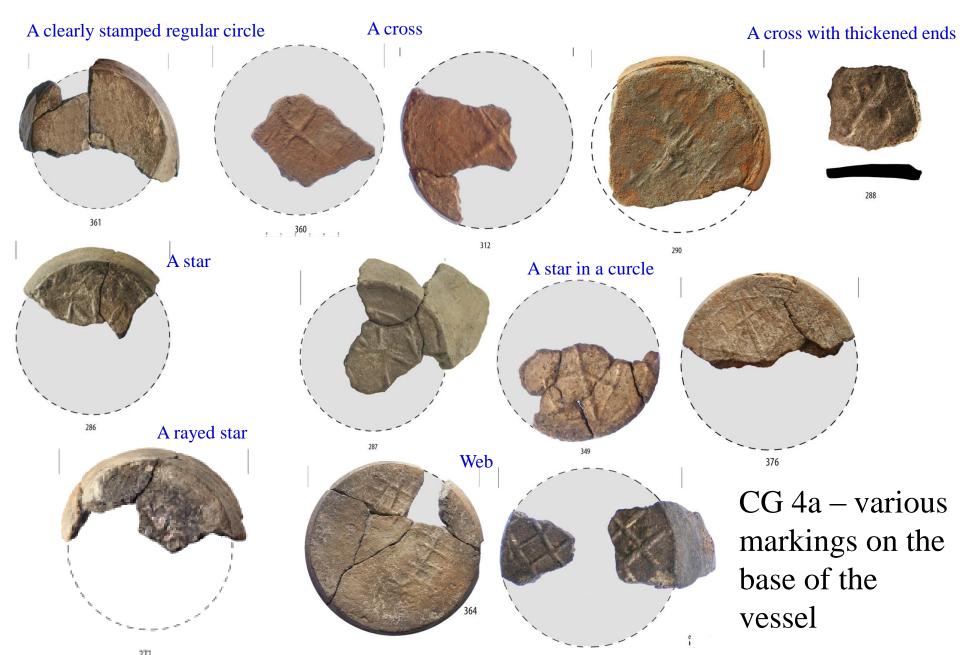
| C14 | SU | Code | Radiocarbon Age | One Sigma Range |
|------------|----|--------|---------------------|--------------------------|
| C14 | 16 | Z 3167 | BP 1115 ± 90 | cal AD 810-1020 (65.7 %) |

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



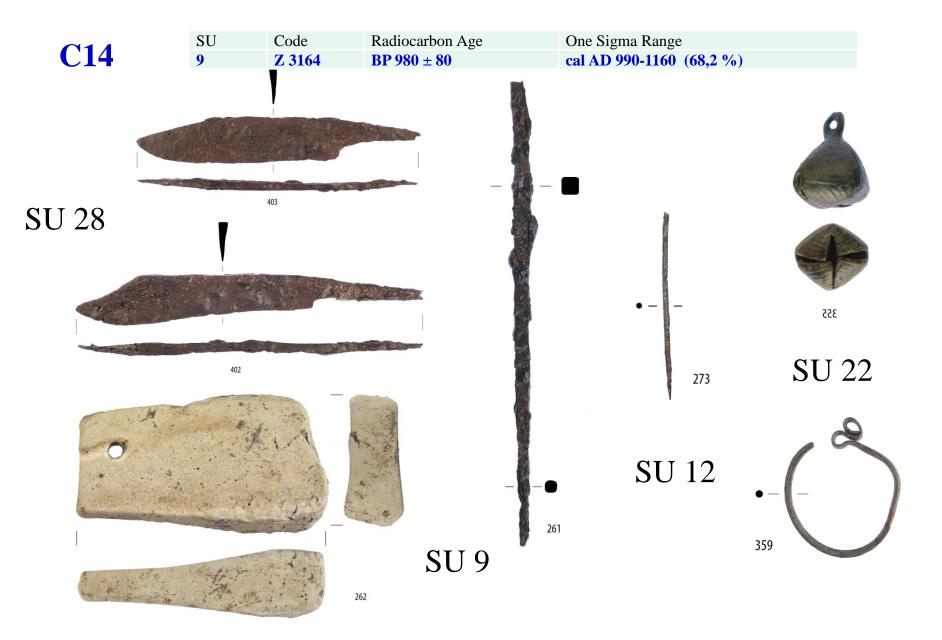


SU 22

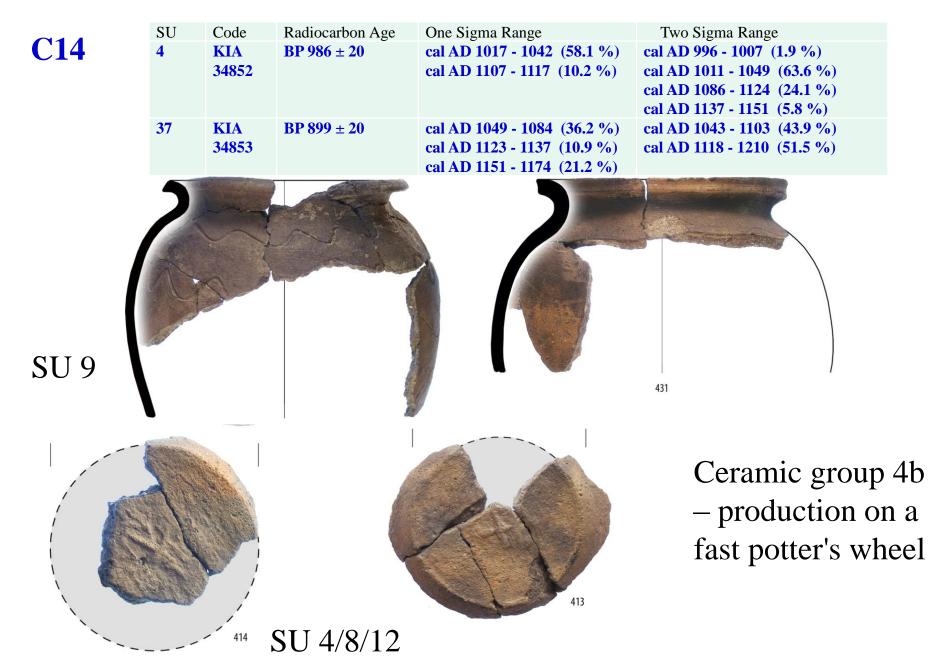


CG 4a – new forms of vessels: **jug with a massive handle**, a pot with a narrow, tall, cylindrical neck-**pot-like jug**, a **pot with a ribbed neck**, <u>**bowls**</u> –



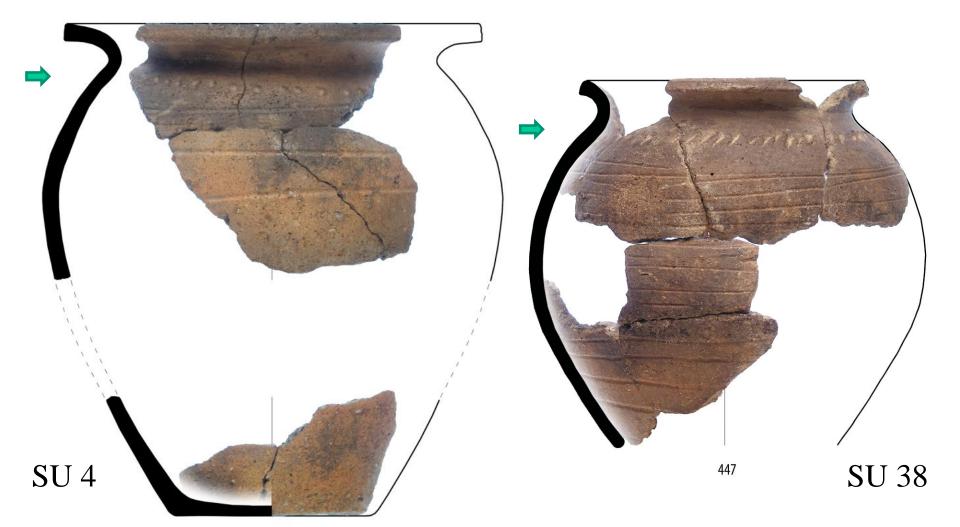


Torčec IVb - the end of the 11th to the end of the 12th (10 features)



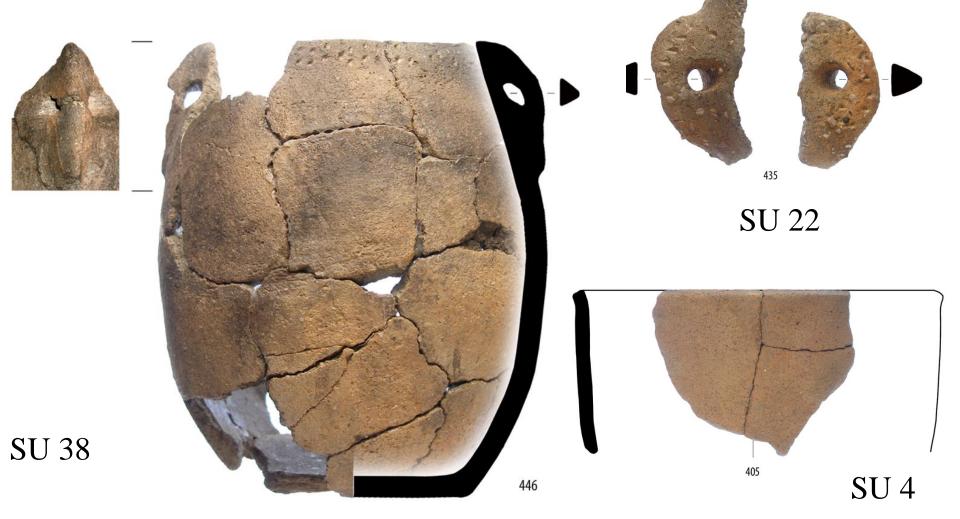
Torčec IVb - the end of the 11th to the end of the 12th century

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







383









390

Ledine – SU 24

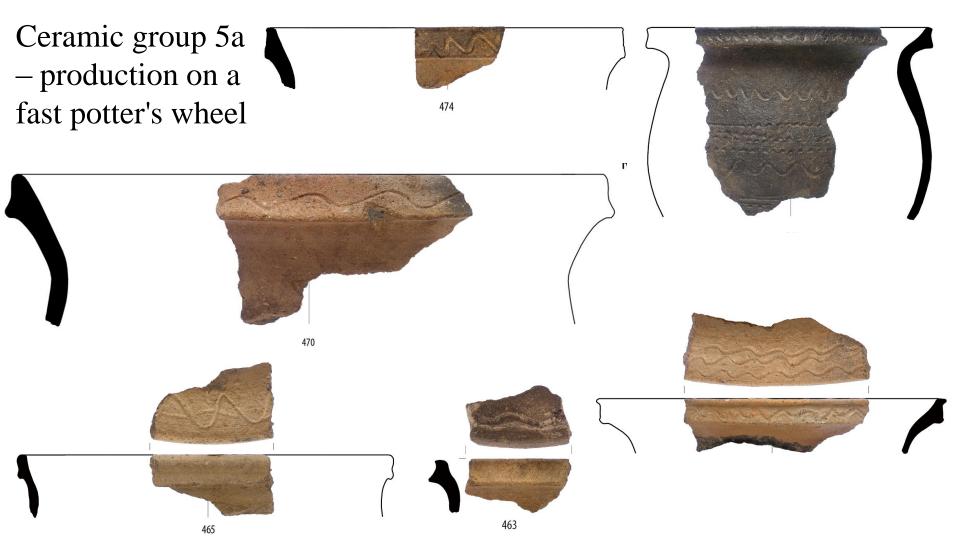




Pod Gucak – SU 6

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

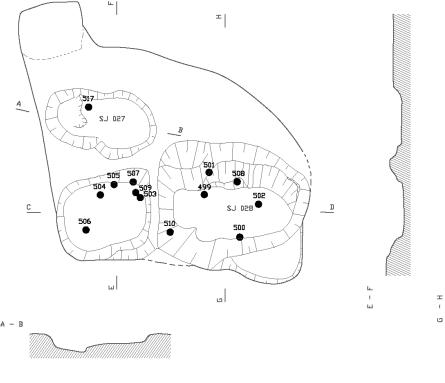
CG 5a – new decoration – single wavy line on the outside of the rim

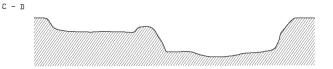


Torčec Vb - second half of the 13th and beginning of the 14th century (2PP + 7R features)

| | SU | Code | Radiocarbon Age | One Sigma Range | Two Sigma Range |
|------------|----|-------|--------------------|-----------------------------|-----------------------------|
| C14 | 14 | KIA | BP 667 ± 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 %) |
| | 26 | KIA | BP 779 ± 21 | cal AD 1227 - 1233 (13.0 %) | cal AD 1220 - 1274 (95.4 %) |
| | | 32254 | | cal AD 1239 - 1268 (55.3 %) | |







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







488

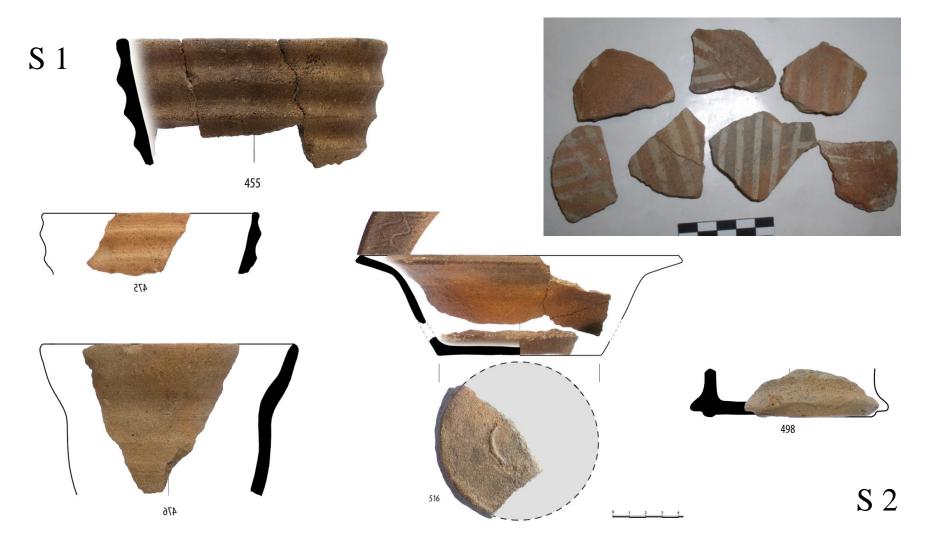
SU 14

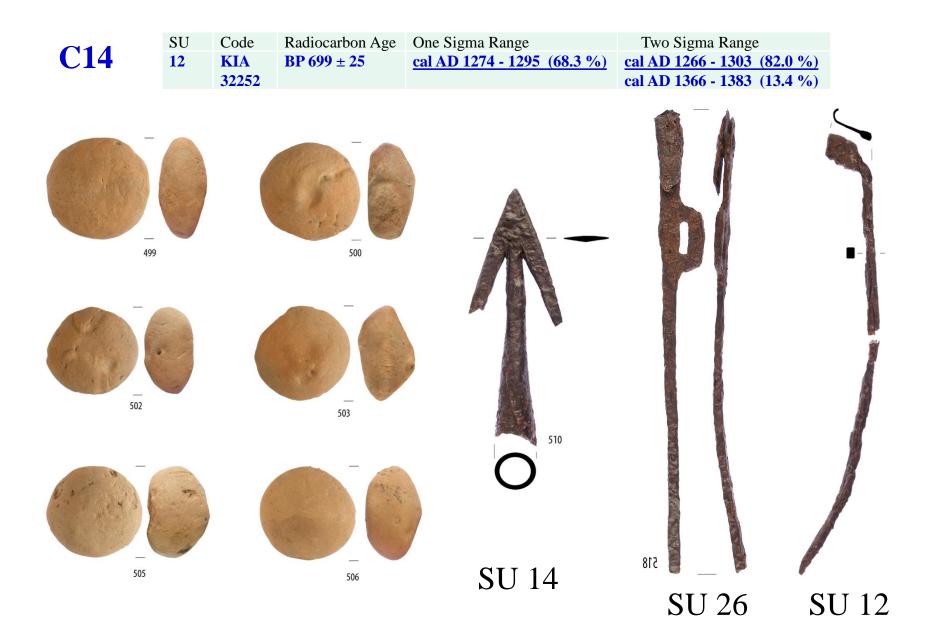


SU 26

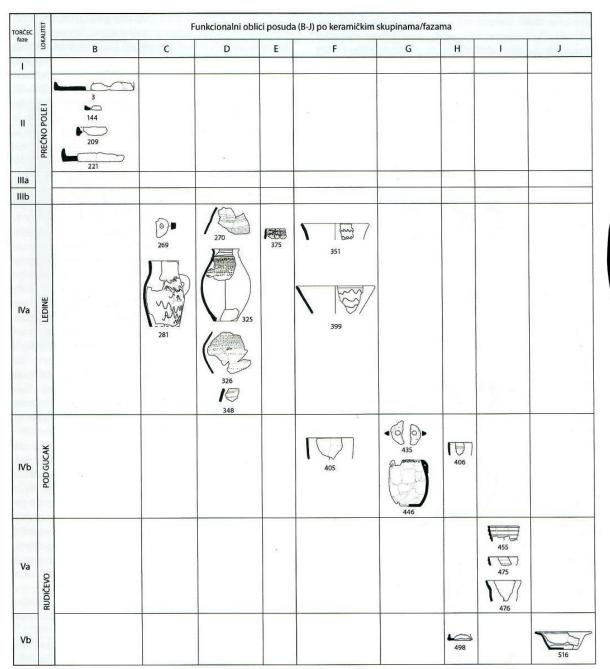
Torčec V – second half of the 12th to first half of the 14th century

CG 5 – a new form of vessels - ceramic cups and plates





Forms of vessels - phases Torčec I-V





Signs on the bottom of the pots

| TORČEC faze | LOKALITET | Znakovi na dnu posuda po keramičkim skupinama/fazama | | | | | |
|-------------|------------------|--|---|---|--|--|--|
| | | Rukom rađena keramika | Keramika rađena na sporom kolu | Keramika rađena na brzom kolu | | | |
| - | | 156 | | | | | |
| = | PREPREČNO POLE I | (D) | 21 0 223 223 22 22 22 22 22 22 22 | | | | |
| IIIa | | | 177 | | | | |
| 9 | | | | | | | |
| IVa | LEDINE | | | $ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \end{array}\\ \end{array} \end{array} $ $ \begin{array}{c} \end{array} $ $ \end{array} $ $ \begin{array}{c} \end{array} $ $ \begin{array}{c} \end{array} $ $ \begin{array}{c} \end{array} $ $ \end{array} $ $ \end{array} $ $ \begin{array}{c} \end{array} $ $ \end{array} $ $ \end{array} $ $ \begin{array}{c} \end{array} $ $ \end{array} $ $ \end{array} $ $ \end{array} $ $ \begin{array}{c} \end{array} $ $ \end{array} $ $ \end{array} $ } $ \end{array} $ } } } } } } } | | | |
| | | | | 361 364 ST 376 396 | | | |
| Nb | POD GUCAK | | | 411 × 412 × 413 × 414 | | | |
| ٨a | | | | 458 | | | |
| ٨D | RUDIČEVO | | | () 492 494 494 514 515 515 | | | |



Thank you for your attention



PhD Andreja Kudelić

PhD Tena Karavidović